Nevada Division of Environmental Protection (NDEP)

National Nuclear Security Administration (NNSA)

Defense Threat Reduction Agency

Office of Legacy Management (LM)

Federal Facility Agreement and Consent Order (FFACO)

Revision No.: 0

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Appendix I	Description of Facilities
Appendix II	Corrective Action Sites/Units
Appendix III	Corrective Action Investigations/ Corrective Actions
Appendix IV	Closed Corrective Action Units
Appendix V	Public Involvement Plan
Appendix VI	Corrective Action Strategy

THE STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES,
DIVISION OF ENVIRONMENTAL PROTECTION

AND

THE UNITED STATES DEPARTMENT OF ENERGY

AND

THE UNITED STATES DEPARTMENT OF DEFENSE

IN THE MATTER OF:

FEDERAL FACILITY AGREEMENT

AND

CONSENT ORDER

MARCH 15, 1996

FEDERAL FACILITY AGREEMENT AND CONSENT ORDER

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INTRODUCTION

This Federal Facility Agreement and Consent Order (Agreement) is made and entered into by and among the State of Nevada, acting by and through the Department of Conservation and Natural Resources, Division of Environmental Protection (NDEP), the United States Department of Energy (DOE), and the United States Department of Defense (DoD). The NDEP enters into this Agreement pursuant to its statutory authority to protect the public health and the environment (article modified by August 2006 Letter Agreement).

The facilities for which DOE has assumed responsibility and which are subject to this Agreement include the Nevada Test Site (NTS), parts of the Tonopah Test Range, parts of the Nellis Air Force Range, the Central Nevada Test Area, and the Project Shoal Area (hereinafter collectively referred to as the facilities). DoD's responsibilities are limited to those areas at the NTS where DoD has conducted activities. The legal description of each facility is provided in Appendix I, Description of Facilities (article modified by February 2008 Letter Agreement).

The NTS as defined herein does not include those portions of Area 25 (see Appendix I, Description of Facilities, for area location) being used to conduct activities under the Nuclear Waste Policy Act. The parties agree to negotiate in good faith to address any needed environmental restoration for contamination that predates the enactment of the Nuclear Waste Policy Act within the areas excluded from the definition of the NTS as identified in Appendix I, Description of Facilities. This Agreement is not intended to impact or limit the ongoing site characterization of the Yucca Mountain site, which is proposed for spent nuclear fuel and high-level radioactive waste disposal. The parties agree that any activities undertaken by DOE or successor agencies to characterize Yucca Mountain, or to construct, operate, or close a spent nuclear fuel and high-level radioactive waste repository at Yucca Mountain are specifically excluded from this Agreement.

PART I. PARTIES

I.1. The parties to this Agreement are persons as defined in paragraph IV.34 and include the NDEP, DOE, and DoD. NDEP, DOE, and DoD are referred to collectively herein as the parties (parties) to this Agreement.

I.2. DOE and DoD shall provide notice of this Agreement (including all appendices and any amendments) to every successor in interest and to any successor agency prior to any transfer of ownership or operation of the real property subject to this Agreement. The provisions of this Agreement shall be binding on all successors in

interest and on any successor agency.

I.3. DOE and DoD shall be responsible for ensuring that their respective contractors conduct their activities in conformance with the requirements of this Agreement. Contractors of each party are not considered parties to this Agreement.

I.3.a. DOE and DoD shall provide copies of this Agreement to all their respective prime contractors presently retained to perform work related to any part of this Agreement within thirty (30) calendar days of execution of this Agreement.

I.3.b. DOE and DoD shall provide copies of this Agreement to all additional prime contractors retained to perform work related to any part of this Agreement within ten (10) calendar days following their retention.

I.3.c. Copies of this Agreement shall be made available to all other contractors and subcontractors retained to perform work under this Agreement.

PART II. STATEMENT OF PURPOSE

II.1. The purposes of this Agreement include, but are not limited to:

II.1.a. Identifying sites of potential historic contamination and implementing proposed corrective actions based on public health and environmental considerations as follows to:

II.1.a.i. Ensure that the impacts and potential impacts at the facilities, as defined in paragraph IV.26, associated with the releases or threatened releases of hazardous substances, pollutants, solid wastes, and/or hazardous wastes into the environment and discharges and/or potential discharges of pollutants into the waters of the state are thoroughly investigated by DOE and/or DoD under the regulatory authority and oversight of NDEP.

II.1.a.ii. Ensure that hazardous substances, pollutants, solid wastes, and/or hazardous wastes which have been, are, or may be discharged into waters of the state or released into the environment at, on, or from the facilities are subject to corrective actions and closure requirements, under the oversight of NDEP.

II.1.a.iii. Ensure that all elements of the investigations and corrective actions provided for in this Agreement consider public input.

II.1.b. Establishing specific sampling and monitoring requirements, including drilling and subsurface sampling, designed to:

II.1.b.i. Ensure the health and safety, at all times, of NDEP personnel, site workers at the facilities, and any members of the public present at the facilities, including during corrective action activities;

II.1.b.ii. Determine whether releases of pollutants and/or hazardous wastes or potential releases of pollutants and/or hazardous wastes are migrating or potentially could migrate, and if so, identify the constituents, their concentration(s), and the nature and extent of that migration;

II.1.b.iii. Facilitate the undertaking of appropriate corrective actions;

II.1.b.iv. Demonstrate that corrective actions have achieved the degree of closure defined as acceptable in the approved corrective action plan.

II.1.c. Providing all parties with sufficient information to enable adequate evaluation of appropriate remedies by specifying the radioactive and hazardous constituents for each corrective action unit.

II.1.d. Ensuring that the parties work together in a cooperative manner which enables cost effective corrective action investigations and corrective actions and minimizes the likelihood of litigation among the parties.

II.1.e. Substantially reducing the costs of cleanup activities at the facilities through coordinated project management, involvement of NDEP in DOE's and DoD's planning and budgeting processes as set forth in Part XV, Obligations of DOE and DoD, NDEP's oversight of cleanup, efficient use of consultative approaches, and elimination or streamlining of duplicative or unnecessary procedures.

II.1.f. Satisfying the corrective action requirements of 40 CFR 264.101 and Sections 3004(u) and 3004(v) of the Resource Conservation and Recovery Act (RCRA), 42 U.S.C. §6924 (u) and (v), and through incorporation by reference into DOE's RCRA permit number NEV HW009 (article modified by February 2008 Letter Agreement).

II.2. This Agreement is not intended to fulfill the Federal Facility Compliance Act requirement for a compliance order addressing the Land Disposal Restriction prohibition for mixed wastes. Land disposal restricted mixed wastes generated as a result of actions taken under this Agreement will be managed in accordance with the Mutual Consent Agreement Between the State of Nevada and the Department of Energy for the Storage of Low-Level Land Disposal Restricted Mixed Waste signed on June 6, 1995, or subsequent permitted treatment, storage, or disposal unit operational requirements, including all applicable requirements of the RCRA, 42 U.S.C. §6901 et seq. The Mutual Consent Agreement covers storage of environmental restoration generated mixed waste, and schedules for treatment of environmental restoration-generated land disposal restricted mixed waste will be established and enforced in accordance with the Mutual Consent Agreement and not as part of this Agreement.

PART III. LEGAL AUTHORITY

III.1. DOE enters into this Agreement pursuant to Section 120(a)(4) of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 U.S.C. §9620(a)(4); Sections 6001 and 3004(u) and 3004(v) of RCRA, 42 U.S.C. §6901 et seq.; the Atomic Energy Act, 42 U.S.C. §2011 et seq.; and Executive Order 12580 "Superfund Implementation."

III.2. DoD enters into this Agreement pursuant to Section 120 of CERCLA, 42 U.S.C. §9620; Sections 6001 and 3004(u) and 3004(v) of RCRA, 42 U.S.C. §6901 et seq.; Executive Order 12580, "Superfund Implementation"; the National Contingency Plan; Section 311 (c) of the Federal Water Pollution Control Act, 33 U.S.C. §1321; and the Defense Environmental Restoration Program, 10 U.S.C. §2701.

III.3. The parties enter into this Agreement pursuant to their applicable authorities and responsibilities, including the Solid Waste Disposal Act, which includes both RCRA and the Hazardous and Solid Waste Act; Chapters 444, 445, and 459 of the Nevada Revised Statutes (NRS) including the Nevada Water Pollution Control Law, NRS 445A.300 et seq., the Nevada Hazardous Waste Law, NRS 459.400 et seq., Chapters 444, 445, and 459 of the Nevada Administrative Code (NAC), the Nevada Administrative Procedure Act, NRS Chapter 233B, as these laws may be amended from time to time, and all other applicable provisions of state and federal law. NDEP specifically retains all of its hazardous waste and clean water authorities and legal rights, both substantive and procedural, both under the authorities delegated by the U.S. Environmental Protection Agency,

and under its own laws and regulations as well. DOE does not waive any claim of jurisdiction over matters which may be reserved to DOE by law, including the Atomic Energy Act, 42 U.S.C. §2011 et seq.

III.4. To the extent not inconsistent with federal law, the laws of the state of Nevada shall be applied when interpreting and construing this Agreement. Compliance with the terms and conditions of this Agreement does not relieve DOE or DoD of any responsibility for complying with all applicable federal and state laws and regulations.

PART IV. DEFINITIONS

IV.1. Except as noted in Part IV of this Agreement, the definitions provided in RCRA, the Nevada Water Pollution Control Law, NRS 445.131 et seq., the Nevada Hazardous Waste Law, NRS 459.400 et seq., and their implementing regulations, as appropriate, shall control the meanings of the terms contained in this Agreement.

IV.2. "Administrator" shall have the meaning given in NRS 445.134.

IV.3. "Agreement" shall refer to this Federal Facility Agreement and Consent Order (FFACO) and includes all attachments, addenda, appendices, amendments, and modifications.

IV.4. "Agreement coordinator" shall refer to the individual designated by each party to this Agreement responsible for the overall implementation of the Agreement.

IV.5. "Authorized representative(s)" shall include a party's contractor(s) or agent(s) acting in specifically designated or defined capacities.

IV.6. "Central Nevada Test Area" shall mean the property so described in Appendix I, Description of Facilities.

IV.7. "Clean closure" shall mean the removal of pollutants, hazardous wastes, and solid wastes released into the environment or discharged and/or having the potential of being discharged into waters of the state in accordance with corrective action plans.

IV.8. "Closure in place" shall mean the stabilization or isolation of pollutants, hazardous wastes, and solid wastes, with or without partial treatment, removal activities, and/or post-closure monitoring, in accordance with corrective action plans.

IV.9. "Community Advisory Board" shall mean that formally constituted and chartered board created under the Federal Advisory Committee Act established to provide site-specific recommendations for

environmental restoration and waste management activities on the facilities.

IV.10. "Contaminant" shall have the meaning given in NRS 445A.325. DOE asserts that this definition is subject to Part III, Legal authority.

IV.11. "Corrective action" shall mean an action or series of actions taken to correct deficiencies in the disposal or containment of pollutants, hazardous wastes, and solid wastes to prevent releases and/or potential releases into the environment or discharges and/or potential discharges of such materials into waters of the state in accordance with the approved corrective action plan. A corrective action may range from no action to clean closure.

IV.12. "Corrective action coordinator(s)" shall mean the individual(s) responsible for overseeing daily activities required by this Agreement.

IV.13. "Corrective action decision document" (CADD) shall mean a document that describes the corrective action that is selected as the result of investigation activities and the rationale for its selection. The rationale consists of an analysis of the possible alternatives and may reflect a decision ranging from no action to clean closure.

IV.14. "Corrective action investigation" (CAI) shall mean an investigation conducted by DOE and/or DoD to gather data sufficient to characterize the nature, extent, and rate of migration or potential rate of migration from releases or discharges of pollutants or contaminants and/or potential releases or discharges from corrective action units identified at the facilities.

IV.15. "Corrective action investigation plan" (CAIP) shall mean a document that provides or references all of the specific information for planning investigation activities associated with corrective action units or corrective action sites. A CAIP may reference information in the optional CAU work plan or other applicable documents. If a CAU work plan is not developed, then the CAIP must include or reference all of the management, technical, quality assurance, health and safety, public involvement, field sampling, and waste management information needed to conduct the investigations in compliance with established procedures and protocols.

IV.16. "Corrective action plan" (CAP) shall mean a plan which is prepared when the corrective action decision document requires a corrective action.

IV.17. "Corrective action sites" (CASs) shall refer to the sites potentially requiring corrective action(s) and may include solid waste management units, or individual disposal or release sites.

IV.18. "Corrective action unit" (CAU) shall mean one or more corrective action sites grouped geographically, by technical similarity, agency responsibility, or for other appropriate reasons, for purposes of determining corrective actions.

IV.19. “Corrective action unit work plan” (CAU work plan) shall mean an optional planning document that provides information for a CAU or a collection of CAUs where significant commonality exists. This plan may be developed to eliminate redundant CAU documentation and may contain management, technical, quality assurance, health and safety, public involvement, field sampling, and waste management information. This common information will be referenced in the appropriate CAIPs.

IV.20. "Days" shall mean calendar days unless business days are specified. Any submittal that, under the terms of this Agreement, would be due on a Saturday, Sunday, or state of Nevada or federal holiday shall be due on the following business day.

IV.21. "Deadline" shall mean the date by which an enforceable milestone established by this Agreement or other actions or activities specifically identified in this Agreement shall be met. Stipulated penalties may be assessed for failure to meet an established deadline.

IV.22. "Department of Defense" (DoD) shall mean the Office of the Secretary of Defense, Defense Nuclear Agency and/or any predecessor or successor agency(ies) and/or their authorized representatives so designated in writing.

IV.23. "Department of Energy" (DOE) shall mean the U.S. Department of Energy and/or any predecessor or successor agency(ies) and/or their authorized representatives(article modified by August 2006 Letter Agreement).

IV.24. "Due date" shall mean the date by which a nonenforceable milestone is due.

IV.25. "Enforceable milestone" shall mean a milestone which is enforceable and for which a deadline has been assigned.

IV.26. "Facilities" shall include the Nevada Test Site (NTS), parts of the Tonopah Test Range, parts of the Nellis Air Force Range, the Central Nevada Test Area, and the Project Shoal Area. The NTS as defined herein does not include those areas being used to conduct activities under the Nuclear Waste Policy Act(article modified by February 2008 Letter Agreement).

IV.27. "Fiscal year" (FY) shall mean the federal fiscal year unless otherwise specified.

IV.28. "Hazardous substance" shall have the meaning given in CERCLA §101, 42 U.S.C. §9601(14), and NRS 459.429. DOE asserts that this definition is subject to Part III, Legal Authority.

IV.29. "Hazardous waste" shall have the meaning given in 42 U.S.C. §6903(5) and NRS 459.430.

IV.30. "Milestone" shall mean an important or critical event, goal, task, and/or activity that must occur in order to achieve the objective(s) for that corrective action unit.

IV.31. "Mixed waste" shall have the meaning given in 42 U.S.C. §6903 (41).

IV.32. "Nellis Air Force Range" shall mean the property so described in Appendix I, Description of Facilities (article modified by February 2008 Letter Agreement).

IV.33. "Nevada Test Site" (NTS) shall mean the property so described in Appendix I, Description of Facilities.

IV.34. "Parties" shall mean the parties named in Part I, Parties, to this Agreement.

IV.35. "Person" for the purposes of this Agreement shall include DOE, DoD, and NDEP within the definitions of "person" contained in the Nevada Water Pollution Control Law, NRS 445A.300 et seq., and the Nevada Hazardous Waste Law, NRS 459.400 et seq.

IV.36. "Pollutant" shall have the meaning given in NRS 445A.400. DOE asserts that this definition is subject to Part III, Legal Authority.

IV.37. "Project Shoal Area" shall refer to the locality so described in Appendix I, Description of Facilities.

IV.38. "RCRA" shall mean the Resource Conservation and Recovery Act of 1976, Public Law 94-580, 42 U.S.C. Section 6901 et seq., as amended by the Hazardous and Solid Waste Amendments of 1984, P.L. 98-

616, as amended by the Federal Facility Compliance Act of 1992, P.L. 102-386, and any other amendments thereto.

IV.39. "RCRA Permit" shall mean a permit issued by NDEP for hazardous waste treatment, storage, and/or disposal units including, as required, post-closure monitoring of such units.

IV.40. "Release" (including past releases) shall have the meaning given in NAC 459.9526 and NAC 445A.345.2 as related to constituents identified in NAC 445A.347.2.

IV.41. "Solid waste" shall have the meaning given in 42 U.S.C. §6903 (27) and NRS 444.490. IV.42. "State of Nevada Department of Conservation and Natural Resources, Division of Environmental Protection" (NDEP) shall have the meaning given in NRS 445A.350 and NAC 444.576.

IV.43. "Submittal" shall mean every document, report, schedule deliverable, work plan, or other written item to be provided to NDEP pursuant to this Agreement.

IV.44. "Timeframe" shall mean an interval of time over which some action is planned to occur, with or without reference to a beginning or ending date.

IV.45. "Tonopah Test Range" shall mean the property so described in Appendix I, Description of Facilities.

IV.46. "Waters of the state" shall have the meaning given in NRS 445A.415.

PART V. DESCRIPTION OF APPENDICES

V.1. Appendices I-VI are incorporated by reference into this Agreement. Any ambiguity resulting from different language used in an appendix versus the body of this Agreement shall be resolved in favor of terms and conditions found in the body of this Agreement.

V.2. Appendix I, "Description of Facilities," contains the descriptions of each of the facilities covered by this Agreement.

V.3. Appendix II, "Corrective Action Sites/Units," contains a list of all CAUs which have been identified to date and which have not yet been transferred to subsequent appendices or CASs which have not yet been grouped into CAUs. A CAU shall consist of one or more CASs, and each CAS in each CAU will be identified. New CASs/CAUs identified by any of the parties shall be added to Appendix II on a quarterly basis. CAUs shall be grouped in categories and subcategories in accordance with Appendix VI, Corrective Action Strategy. The CAU

categories may include:

V.3.a. Industrial sites;

V.3.b. Underground test areas;

V.3.c. Contaminated soil sites; and

V.3.d. Offsites.

V.4. Appendix III, "Corrective Action Investigations/Corrective Actions," shall list those CAUs that have been identified and prioritized for CAIs and/or for corrective actions as described in Part XII, Corrective Action Investigations/Corrective Actions. This appendix shall also contain CAU milestones with associated due dates and deadlines.

V.5. Appendix IV, "Closed Corrective Action Units," shall list those CAUs for which all corrective actions have been completed and approved by NDEP in accordance with Part XII, Corrective Action Investigations/Corrective Actions.

V.6. Appendix V, "Public Involvement Plan," is described in Part XVII, Public Involvement. A draft of this appendix shall be submitted within 60 days of the effective date of the Agreement.

V.7. Appendix VI, "Corrective Action Strategy," contains the process for implementing corrective actions pursuant to this Agreement. Processes described in greater detail in Appendix VI, Corrective Action Strategy, than in the body of this Agreement may be in addition to those described herein but shall not be in conflict with the provisions contained in the body of this Agreement.

PART VI. ENFORCEABILITY/RESERVATION OF RIGHTS

VI.1. Except as described in paragraph VI.2 and paragraph VIII.6, compliance with the terms and conditions of this Agreement shall stand in lieu of any administrative or judicial remedies that may be taken for matters covered by this Agreement.

VI.2. NDEP reserves the right to bring any enforcement action against DOE and/or DoD for noncompliance with the terms and conditions of this Agreement, including actions for the sole purpose of compelling completion of a deficient activity whether or not stipulated penalties are sought.

VI.3. For all matters outside the scope of this Agreement, NDEP, within the scope of its authority, reserves the right to bring enforcement actions against any person.

VI.4. DOE and DoD intend to be legally bound by this Agreement and agree that the terms and conditions of this Agreement are enforceable as provided herein. DOE and DoD consent to NDEP's jurisdiction for the purpose of executing and enforcing the terms and conditions of this Agreement.

VI.5. Nothing in this Agreement shall be construed to affect any criminal investigations or criminal liability of any person(s) for activities at any of the facilities described in Appendix I, Description of Facilities.

VI.6. Nothing in this Agreement shall constitute, or be construed as a release from any claim, cause of action, or demand in law or equity against any individual, firm, partnership, or corporation not directly identified in this Agreement for any liability it may have arising out of, or relating in any way, to the generation, storage, treatment, handling, transportation, release, or disposal of any hazardous substances, hazardous wastes, solid waste or pollutants, found at, taken to, or taken from, any of the facilities that are the subject of this Agreement.

VI.7. The parties reserve their appeal rights as set forth in Part IX, Informal Dispute Resolution and Appeal Procedure.

VI.8. In the event of administrative or judicial action, all parties reserve all rights, claims, and defenses available under law.

PART VII. PROGRESS REPORTS

VII.1. Following the effective date of this Agreement, DOE and DoD shall, on or before the 30th calendar day following the end of each calendar quarter, submit a written or electronic progress report to NDEP that describes the actions taken during the calendar quarter just ended. This information will serve as a partial basis for the discussions at the quarterly meetings discussed in paragraph XII.4 (article modified by January 2007 Letter Agreement).

VII.2. Each progress report shall include:

VII.2.a. Sufficient detail to clearly and accurately convey to NDEP the manner and extent to which the requirements and schedules set forth in the work plans and other terms and conditions of this Agreement are being met;

VII.2.b. Any known cost and schedule variances exceeding the established thresholds will be reported along with the cause of the variances and any actions which may be implemented to correct the variances;

VII.2.c. Actions and issues of concern, where additional communication is necessary.

VII.3. DOE and/or DoD shall, within sixty (60) calendar days of NDEP's request, which is hereby established as the deadline for this activity, provide NDEP with budgets and costs for activities covered by this Agreement.

VII.4. DOE and DoD shall include in their quarterly reports a three-month advance schedule outlining field activities (including the field activities of their respective contractors, subcontractors, operators, and agents), proposed to be implemented under this Agreement. A more detailed schedule shall be provided to NDEP on a bi-weekly basis, and shall provide the specific dates for conducting these activities for the subsequent two-week period, thereby enabling NDEP to select those activities it deems appropriate to observe (article modified by April 2004 Letter Agreement).

VII.5. The National Defense Authorization Act for 1994, 42 U.S.C. §7274k, (P.L. 103-160, Section 3153) requires DOE to prepare and submit an annual environmental restoration report. DOE shall submit to NDEP a copy of the portions of that report that define the conditions or otherwise relate to the activities being undertaken by the DOE Nevada Operations Office within thirty (30) calendar days of the report's submittal to Congress (article modified by February 2008 Letter Agreement).

VII.6. Quarterly meetings will be held in part to discuss any issues raised in or by the quarterly progress reports. These meetings will also serve to initiate the prioritization discussions identified in Part XII, Corrective Action Investigations/Corrective Actions. Parties will attempt to resolve issues during the quarterly meetings. Resolution of issues will be documented, and unresolved issues will be discussed at or before the next quarterly meeting (article modified by January 2007 Letter Agreement).

VII.7. Parties may meet at times other than the quarterly meetings as required, for example if there are events, such as changes in available funding, that might affect milestones, especially if those milestones are in the current fiscal year (article modified by January 2007 Letter Agreement).

PART VIII. STIPULATED PENALTIES

VIII.1. Stipulated penalties shall be incurred by DOE and/or DoD in the event that DOE and/or DoD fails to meet an established deadline.

VIII.2. In the event DOE or DoD fails to meet an established deadline contained herein, NDEP may assess a stipulated penalty in the amount

of $5,000.00 per week for the first week or part thereof of such failure, $10,000.00 per week for the following week or part thereof of such failure, and $15,000.00 per week for the third and each succeeding week for which the failure to meet an established deadline occurs.

VIII.3 NDEP shall notify DOE and/or DoD in writing of any alleged failure to meet an established deadline.

VIII.3.a. If NDEP's written notice of a missed deadline cites that the specified deadline was not met, evidence supporting any alleged defense must be submitted to NDEP within thirty (30) calendar days from the date of receipt of NDEP's written notice unless otherwise agreed. No penalty shall be assessed if NDEP accepts the DOE's and/or DoD's defense. If NDEP rejects the defense, DOE and/or DoD shall be assessed the stipulated penalty from the date of the missed deadline, and DOE and/or DoD may initiate the appeal procedure in accordance with paragraph IX.2 of this Agreement.

VIII.3.b. If a milestone for which a deadline has been established is construed by NDEP to be substantially deficient, and therefore not complete, NDEP shall issue a written Notice of Deficiency to DOE and/or DoD that cites the alleged deficiencies. If DOE and/or DoD accept(s) NDEP's position, DOE and/or DoD shall, within twenty-one (21) calendar days of receipt of the Notice of Deficiency or such longer time period as specified by NDEP, correct the deficiencies and resubmit or otherwise complete the milestone for which the deadline was established. Any stipulated penalty(ies) connected to failure to meet the established deadline shall begin upon DOE's and/or DoD's receipt of the Notice of Deficiency. The penalty(ies) shall accrue during such twenty-one (21) calendar days, or otherwise specified period, and may, at NDEP's discretion, be waived unless the resubmitted deliverable or completed milestone is determined by NDEP to remain substantially deficient. If DOE and/or DoD is aggrieved by either NDEP's original or subsequent determination of substantial deficiency, DOE and/or DoD may initiate the appeal procedure in accordance with paragraph IX.2.

VIII.4. Stipulated penalties will continue to accrue and may be assessed at NDEP’s discretion during pursuit of remedies contained in Part IX, Informal Dispute Resolution and Appeal Procedure, except

accrual of such penalties shall be suspended during any period of time in excess of fourteen (14) calendar days required by NDEP to render its decision under paragraph VIII.3. DOE and/or DoD are responsible for stipulated penalties only for the time ultimately determined to be deficient, and stipulated penalties are to be paid within thirty (30) days of a final determination of deficiency unless the parties agree to a different schedule.

VIII.5. The provisions of this Part shall not affect DOE's and/or DoD's ability to petition NDEP for an extension of a deadline as appropriate as set forth in Part X, Extensions.

VIII.6. Stipulated penalties for failure to meet established deadlines contained herein are in lieu of statutory penalties otherwise available under the law. For statutory or regulatory violations for actions for which deadlines are not established or outside the scope of this Agreement, all remedies available to NDEP may be invoked while DOE and DoD reserve their authority to use all available defenses.

VIII.7. Payment of any stipulated penalty does not relieve DOE and/or DoD of any other requirements imposed by this Agreement.

VIII.8. Any failure of DOE to remit a stipulated penalty within thirty (30) calendar days after the stipulated penalty is due and payable, unless the affected parties agree to a different payment schedule, shall, to the extent allowed by law, cause the addition of interest on the unpaid balance compounded daily at a rate equal to the rate of interest fixed for 1-year United States treasury bills on the date of the commencement of the action, as reported in the "Federal Reserve Bulletin" published by the Board of Governors of the Federal Reserve System or other commonly used business or financial publication. In the event payment of interest is not allowed by law, DOE shall, to the satisfaction of NDEP, establish the basis of this position.

VIII.9. NDEP’s position is that the DoD is required to pay interest in accordance with paragraph VIII.8. DoD’s position is that absent express Congressional authorization the United States is immune from paying interest. If, however, a court of proper jurisdiction holds that the DoD is required to pay interest, interest shall be paid in accordance with paragraph VIII.8.

VIII.10. Stipulated penalties that are due and payable shall be paid to the state of Nevada, Division of Environmental Protection.

PART IX. INFORMAL DISPUTE RESOLUTION AND APPEAL PROCEDURE

IX.1. All parties to this Agreement shall make reasonable efforts to informally resolve outstanding issues and/or disputes. During the informal dispute resolution process, the parties shall meet as many times as necessary to discuss and attempt resolution of the dispute. If resolution at the agreement coordinator level cannot be reached, efforts may be elevated to immediate supervisors of the agreement coordinators or, if necessary, to the agency executive level. If resolution cannot be achieved informally, the appeal procedures of this Part may be implemented.

IX.2. In the event DOE and/or DoD are aggrieved by a written determination by the NDEP agreement coordinator or his designee, DOE and/or DoD may appeal the matter as follows:

IX.2.a. Within fifteen (15) calendar days following DOE and/or DoD receipt of the NDEP determination being appealed, DOE and/or DoD shall request an informal administrative hearing. Seven calendar days prior to the informal administrative hearing, DOE and/or DoD shall provide NDEP with a witness list, list of exhibits, and summary of evidence intended to be presented. The informal administrative hearing shall be held in the NDEP offices within thirty (30) calendar days of the request, unless otherwise agreed. Following the informal administrative hearing, the NDEP administrator shall issue the final decision.

IX.2.b. If the informal administrative hearing fails to resolve the issue, DOE and/or DoD may, within twenty (20) calendar days following receipt of the NDEP administrator's final decision, appeal the administrator's decision to the Nevada State Environmental Commission (SEC). An appeal is made by filing SEC Form #3 with the Secretary of the SEC. SEC Form #3 will be enclosed with the decision document referenced in paragraph IX.2.a.

IX.2.c. A hearing before the SEC shall be conducted within twenty (20) calendar days pursuant to the Nevada Administrative Procedure Act, NRS 233B.010 et seq. and the Rules of Practice and Procedure of the SEC, NAC 445B.875 through 445B.897.

IX.3. Any of the parties may appeal the final decision of the SEC as provided for in paragraph IX.2.c by filing a petition for judicial review pursuant to NRS 233B.010 et seq.

PART X. EXTENSIONS

X.1. NDEP shall grant a reasonable extension of a deadline upon receipt of a timely written request from DOE and/or DoD and when NDEP determines that good cause exists for the requested extension. Any request for extension shall specify:

X.1.a. The deadline that is sought to be extended;

X.1.b. The length of the extension sought;

X.1.c. The good cause(s) for the extension; and

X.1.d. Any and all related schedule(s) or deadline(s) that would be affected if the extension were granted.

X.2. Good cause may exist for an extension for:

X.2.a. An event included in Part XXII, Force Majeure;

X.2.b. A delay caused by, or likely to be caused by, the granting of an extension in regard to another deadline or milestone;

X.2.c. Any event or series of events mutually agreed to by DOE and/or DoD and NDEP as constituting good cause.

X.3. NDEP, in writing, shall grant or deny a written request for an extension within thirty (30) calendar days from the date of receipt of the written request.

X.4. NDEP may grant the extension for less time than originally requested if it determines that the shorter extension is reasonable in light of the good cause.

X.5. If NDEP denies the requested extension, or approves an extension but modifies the length of time requested for the extension, it will include in its written statement of denial or modification an explanation of the basis for its decision.

Part XI. AMENDMENTS AND MODIFICATIONS

XI.1. Amendments to this Agreement may be proposed by any of the parties.

XI.2. Amendments may be purposed for the following reasons, among others:

XI.2.a. To assure that this Agreement remains consistent with applicable laws and regulations;

XI.2.b. To assure that this Agreement is consistent with changed circumstances.

XI.3. This Agreement shall not be modified unless such modification is in writing and signed by all affected parties. Changes to Appendix V, Public Involvement Plan, and the movement of CAUs between appendices as specified in Part V, Description of Appendices, and as specified in Part XII, Corrective Action Investigations/ Corrective Actions, shall not be considered modifications of this Agreement (article modified by July 2000 Letter Agreement).

PART XII. CORRECTIVE ACTION INVESTIGATIONS/CORRECTIVE ACTIONS

XII.1. Within sixty (60) calendar days following the signing of this Agreement by the last party to do so, the parties shall meet to review Appendices II-IV and concur on the classification of all presently identified CAUs to insure all known CAUs are placed in the appropriate appendix, and where appropriate, due dates and deadlines established for existing and proposed activities. Following this initial meeting, the quarterly meeting process outlined in paragraphs XII.3 and XII.4 will begin (article modified by January 2007 Letter Agreement)

XII.2. Appendix III, Corrective Action Investigations/Corrective Actions, will initially reflect current prioritization of CAUs based on previous discussions with NDEP and/or the Community Advisory Board in developing the budgets and priorities for FY 96 and FY 97. Following the initial prioritization, new CAUs will be prioritized based on assessment of risk, as well as agency, regulator, and stakeholder input (including the Community Advisory Board), according to the process described in Appendix VI, Corrective Action Strategy.

XII.3. The parties shall review and update Appendices II through IV as required at quarterly meetings. The appendices shall be updated at each meeting to (article modified by January 2007 Letter Agreement):

XII.3.a. Add newly identified sites to Appendix II, Corrective Action Sites/Units (article modified by January 2007 Letter Agreement);

XII.3.b. Incorporate any approved schedule changes to the milestones in Appendix III, Corrective Action Investigations/Corrective Actions. Move CAUs from Appendix III, Corrective Action Investigations/Corrective Actions, to Appendix IV, Closed Corrective Action Units, after NDEP has issued a notice or notices of completion (article modified by January 2007 Letter Agreement).

XII.4. Following the transfer of a CAU from Appendix II, Corrective Action Sites/Units, to Appendix III, Corrective Action Investigations/Corrective Actions milestones, associated due dates and deadlines may be proposed by DOE and/or DoD but shall be established by NDEP according to the following quarterly meeting schedule listed in paragraphs XII.4.a through XII.4.c. Except as noted in paragraph XII.5, deadlines may be established for the submittal of work plans, CADDs, CAPs, and completion of corrective actions within the FY+2 planning window. For those work plans, CADDS, CAPs, and corrective actions for which completion may fall outside the planning window (FY+2), interim deadlines may be established within the FY+2 planning window. All deadlines other than those set forth explicitly in this Agreement shall be established pursuant to paragraphs XII.4 and XII.5 (article modified by January 2007 Letter Agreement).

XII.4.a. During the quarterly meeting held during the fiscal year first quarter, the parties shall review and reconsider established priorities, milestones, and associated due dates and deadlines for the current fiscal year, taking into consideration the Approved Funding Program and the factors listed in section 1.3 of Appendix VI, Corrective Action Strategy. If the parties cannot agree on deadlines, then Part IX, Informal Dispute Resolution and Appeal Procedure, may be invoked (article modified by January 2007 Letter Agreement).

XII.4.b. During the quarterly meeting held during the fiscal year second quarter, the parties shall initiate the process to establish priorities, milestones, and associated due dates for CAUs for FY+2. At this meeting, DOE will propose CAU milestones for target and planning funding levels, as appropriate. DOE may choose to develop milestones above the target funding level, but shall identify which proposed milestones are above the target case. NDEP, under its authority, may establish deadlines for any milestones for DOE and DoD activities subsequent to the prioritization process established in Appendix VI, Corrective Action Strategy. DoD asserts it is not able to commit to these FY+2 enforceable dates. Prioritized CAUs with their associated milestones, due dates, and/or deadlines shall be listed in Appendix III, Corrective Action Investigations/Corrective Actions. Parties reserve the right to invoke paragraph IX.1 if an issue is not resolved. Subsequent to this meeting, input on the proposed priorities will be sought from the public and the Community Advisory Board. DOE and DoD, in cooperation with NDEP, will develop a final prioritization of CAUs for CAIs and corrective actions with the setting of deadlines

by NDEP by March 15 (article modified by January 2007 Letter Agreement).

XII.4.c. During the quarterly meeting held during the fiscal year fourth quarter, the parties shall review and reconsider established priorities, milestones, and associated due dates and deadlines for CAUs considering factors established in Appendix VI, Corrective Action Strategy, and the President's budget for FY+1. Parties reserve the right to invoke paragraph IX.1 if an issue is not resolved (article modified by January 2007 Letter Agreement).

XII.5. One (1) milestone, with an associated due date or deadline, beyond FY+2 will be established for the completion of UGTA. In addition, at any one time, one (1) other milestone, with an associated due date or deadline, besides the completion milestone can be established for UGTA beyond the FY+2 window. Once this other milestone moves into the FY+2 window, an additional milestone beyond FY+2 can be established such that two out year milestones (one of which is the completion milestone) can always exist for UGTA. These milestones, established beyond the FY+2 window, will be based on assumptions used for planning and understandings of the CAUs at the time of their establishment. If the assumptions or understandings change, the milestones may be reevaluated. The parties recognize that current assumptions, as stated in Appendix VI, Corrective Action Strategy, are preliminary and may change as additional technical information is acquired (article modified by February 2008 Letter Agreement).

XII.6. The timeframes for submittals, activities, and tasks shall be established in the appropriate planning documents and may be bounded by the deadlines established in Appendix III, Corrective Action Investigations/Corrective Actions.

XII.7. Once a CAI has been completed, DOE or DoD shall submit a CADD, which includes evaluation of alternatives, to NDEP for its evaluation. Prior to approving proposed actions, NDEP may seek public comment which includes input from the Community Advisory Board. If a corrective action is required, a CAP will be prepared to guide the subsequent corrective action.

XII.8. NDEP shall, within thirty (30) calendar days of receipt of a submittal, unless otherwise specified in this Agreement, provide:

XII.8.a. Approval, with or without comments on the submittal;

XII.8.b. Disapproval with comments; or

XII.8.c. A timeframe within which NDEP's review will be completed.

XII.9. Upon completion and NDEP approval of the corrective actions, Notices of Completion shall be transmitted to DOE and/or DoD as appropriate and the CAU will move to Appendix IV, Closed Corrective Action Units. Appendix IV will also identify which CASs or CAUs require long-term monitoring.

PART XIII. SAMPLING AND DATA/DOCUMENT AVAILABILITY

XIII.1. The timeframes for the initial availability of any quality-assured results from sampling and monitoring shall be identified in the CAU plans and CAP schedules for each CAU. DOE and/or DoD shall make available existing quality-assured data from sampling, tests, and other activities generated pursuant to this Agreement within thirty (30) calendar days following a request. This requirement is hereby established as the deadline pursuant to this Agreement. NDEP may request all sampling data (including raw data), to be incorporated into the submittal.

XIII.2. NDEP, at its request, shall be provided split or duplicate samples of all samples collected by DOE and/or DoD pursuant to this Agreement. NDEP shall provide, upon request of any party's corrective action coordinators, split or duplicate samples of all samples collected by NDEP pursuant to this Agreement. Any party requesting split or duplicate samples from another party shall provide its own sample container(s) at the time of the sampling event and is responsible for the management and analysis of any such samples.

XIII.3. NDEP may inspect and have copies provided, subject to restrictions relating to classification and other applicable privileges, any and all records, files, photographs, documents, and other writings (including sampling and monitoring data), pertaining to work undertaken, or planned to be undertaken, pursuant to this Agreement. Originals shall remain in the custody of DOE, DoD, and their respective contractors.

PART XIV. ACCESS

XIV.1. Subject to DOE and/or DoD security requirements, applicable health and safety plans, and health and safety officers' instructions, NDEP personnel, with appropriate safety and security clearances, shall have authority to enter CAU work sites and DOE and DoD locations during normal business hours with or without advance notification. Following notification of DOE and/or DoD, NDEP shall to the extent authorized by law have authority to enter contractor

locations to review applicable records and information. Access may be sought for the following purposes among others:

XIV.1.a. Inspection of records, operating logs, contracts, and other documents related to implementation of this Agreement;

XIV.1.b. Reviewing the progress of DOE and/or DoD in implementing the terms and conditions of this Agreement;

XIV.1.c. Verification of data related to implementation of this Agreement; and

XIV.1.d. Observation of Agreement-related work in progress.

XIV.2. Escorts of NDEP personnel to restricted areas where work is ongoing at a CAU shall not be required where facility/locality-specific security, health, and safety requirements are understood and adhered to by the unescorted NDEP personnel. Unescorted NDEP personnel shall sign a release of liability before undertaking any unescorted visit of a restricted site.

XIV.3. No reasonable access shall be denied NDEP personnel with appropriate certifications and clearances on Agreement-related business. If access is denied, the stated reasons for any denial of access to NDEP personnel to any of the facilities or to any of the localities of any of the CAUs shall be provided to NDEP within one (1) business day.

XIV.4. To the extent that compliance with this Agreement requires access to property administered or owned by parties other than DOE, such as the Air Force, other federal entities, and private parties, DOE shall use the maximum extent of its influence and authority to obtain access agreements for DOE, NDEP, and the authorized employees and contractors of each of the parties. DOE shall provide a certified copy of any such signed access agreements to NDEP within ten (10) calendar days of DOE receipt of the document. As appropriate, DOE may negotiate the inclusion of such access agreements as provisions to existing Memoranda of Understanding with other federal entities. Activities conducted under this Agreement on Air Force-administered lands will be scheduled on a on-interference basis with ongoing Air Force activities.

XIV.5. With respect to non-DOE property upon which monitoring wells, pumping wells, treatment units, or other related systems are to be located, DOE shall use its best efforts to obtain access agreements that provide:

XIV.5.a. That no conveyance of title, easement, or other interest in the property shall be consummated without provisions for the continued operation of such wells, treatment units, or other Agreement-related action on the property;

XIV.5.b. That owners of any property where monitoring wells, pumping wells, treatment units, or other installations are located shall notify DOE by certified mail, at least ninety (90) calendar days prior to any conveyance, of the property owner's intent to convey any interest in the property;

XIV.5.c. That DOE shall notify NDEP of the provisions made for the continued operation of the monitoring wells, treatment units, or other systems installed pursuant to this Agreement;

XIV.5.d. DOE shall provide NDEP with a certified copy of each agreement for the continued operation of any monitoring wells, treatment units, or other systems installed pursuant to this Agreement within ten (10) calendar days of the receipt of the final agreement.

PART XV. OBLIGATIONS OF DOE AND DoD

XV.1. DOE and DoD shall take all necessary steps as set forth in paragraphs XV.8 through XV.11 to obtain timely funding to meet their obligations under this Agreement through consultation with the parties and the submission of timely budget requests.

XV.2. Such obligations include, but are not limited to, updates to Appendix II, Corrective Action Sites/Units, the corrective action investigation/corrective action activities identified in Appendix III, any monitoring required pursuant to Appendix IV, the Public Involvement Plan activities required pursuant to Appendix V, and support of NDEP's administrative and regulatory activities to be performed in conjunction with oversight of corrective action activities required by this Agreement.

XV.3. The base obligation of DOE and DoD required for NDEP to oversee activities related to this Agreement shall be determined by NDEP on a yearly basis, and transmitted to DOE and DoD in a timely manner prior to the start of each state fiscal year as authorized by NRS 459.565 and NDEP implementing policy and procedure(s). In addition, NDEP shall at the same time transmit estimates of its base obligations for the four succeeding out years to assist DOE and/or DoD in their respective long-range planning. In accordance with sections XV.4 and XV.5, DOE and DoD agree to pay fees and service charges, consistent

with §6001 of RCRA (42 U.S.C. §6961), at a rate which would be assessed for similar activities on any person for which NDEP provides oversight of corrective action activities under applicable state law. If the parties disagree on the fees and service charges, Part IX, Informal Dispute Resolution and Appeal Procedure, may be invoked.

XV.4 On an annual basis, NDEP shall submit its estimated fee(s) for its obligations to be incurred to DOE. DOE shall in turn, within thirty (30) calendar days after October 1 of each year unless otherwise agreed, make a deposit with NDEP sufficient to meet that obligation for NDEP oversight of DOE activities.

XV.5. Reimbursement of costs/fees associated with services/oversight of DoD's corrective action investigation and/or corrective action activities shall be recoverable by NDEP through the Defense/State Memorandum of Agreement and Cooperative Agreement (DSMOA/CA). These services/oversight and accounting procedures, including procedures for NDEP reimbursement, will be in accordance with the DSMOA/CA. In the event that the DSMOA/CA Program is modified, altered, ended or it fails to meet services/oversight costs/fees, DoD shall remain liable for payment of these costs/fees with appropriated Defense Environmental Restoration Act (DERA) funds.

XV.6. NDEP's estimate of its regulatory oversight obligational requirements for each successive year shall take into account any projected differences between the previous year's estimated obligational requirements and the actual regulatory oversight obligations incurred by NDEP that year and will be submitted on or before April 1 of each year to the appropriate party. By September 1 of each year, all reconciliation for the prior state FY will have been accomplished.

XV.7. In accordance with the DOE and/or DoD's respective rules and policies applicable to the release of budgetary/contracting information in effect at the time of the signing of this Agreement, DOE and DoD shall make the scope of work and the budgets to be used in implementing the terms of this Agreement available to NDEP. Submittal of the scope of work and budgets will occur in conjunction with the establishment of milestones and priorities as identified in Part XII, Corrective Action Investigations/Corrective Actions. Upon request by NDEP and in accordance with applicable restrictions, DOE and DoD shall also provide to NDEP the identity, scope of work, and Agreement-related restoration budgets of any entity or agency performing work related to this Agreement.

XV.8. Prior to the annual submission of DOE/NV's and DoD/NV's budget requests to their respective Headquarters, DOE for its FY+2 budget, and DoD for its five-year planning budget, NDEP shall be given the

following:

XV.8.a. Briefings on the proposed budget requests for environmental management for the facilities, any supporting documents, and target funding levels for environmental management for the facilities, including an assessment of any impacts on this Agreement.

XV.8.b. The opportunity to review, comment, and make recommendations on the priorities and budget request.

XV.9. DOE shall, to the extent it deems appropriate, revise its FY+2 budget requests and supporting documents to address or resolve NDEP's comments and recommendations prior to transmittal to the Headquarters. DOE shall forward to its Headquarters in its budget requests any comments not fully resolved to the satisfaction of all parties and any additional activities identified by NDEP along with the projected budget requirements for such activities.

XV.10. DOE Headquarters shall forward to the Office of Management and Budget for consideration, its FY+2 budget requests along with any unresolved comments and additional activities with related budget requirements identified by NDEP pursuant to paragraph XV.9.

XV.11. In accordance with established Department of Defense policy as of the date of the signing of this Agreement, DoD Headquarters shall forward its FY+2 restoration budget requests, which will identify activities mandated by regulatory considerations to the Deputy Under Secretary of Defense, Environmental Security (DUSD)(ES)for consideration. DUSD(ES) is responsible for consolidating Defense Agency submissions and forwarding this along with all other Defense Service requests to the Under Secretary of Defense Comptroller for incorporation into the President's Budget Request.

XV.12. NDEP agrees not to release confidential budget information to anyone prior to submission by the President of his Budget Request to Congress, unless authorized by DOE or required to do so by court order. DOE may seek to intervene in any proceeding brought to compel or enjoin release of this information. If allowed to intervene, DOE shall assert its interest in and the legal basis for maintaining the confidentiality of this information.

XV.13. DOE and DoD will provide to NDEP sections of the President's Budget Request to Congress pertaining to the facilities' environmental restoration programs in a timely manner after submittal by the President to Congress. DOE and DoD shall notify NDEP of any differences between the proposed budget requests submitted in accordance with paragraph XV.9 and the actual requests included in the President's Budget Request to Congress.

XV.14. If funding has been requested as described in paragraphs XV.8 through XV.11 and in the event that the U.S. Congress has failed to appropriate the funds so requested for Agreement milestones, the parties shall review the level of presently available appropriated funds and the estimated cost of meeting all obligations and requirements under this Agreement. DOE and/or DoD shall transmit to NDEP for its review a proposed alternate schedule and level of activities to satisfy the terms and conditions of this Agreement. If agreement cannot be reached on an alternate schedule and if NDEP does not approve a modified alternate schedule and level of activity, should DOE and/or DoD choose to appeal, the appeal procedure contained in paragraph IX.2 will be followed.

XV.15. If DOE and/or DoD fail to comply with the terms of this Agreement (including payment of NDEP oversight costs), NDEP may pursue all available remedies to ensure performance and compliance.

PART XVI. NOTIFICATION AND AGENCY COORDINATION

XVI.1. Documents shall be sent to NDEP in a manner designed to be received by the date due in either the Carson City or Las Vegas office. Formal requests by any party to this Agreement of any other party to this Agreement shall be in writing (article modified by February 2008 Letter Agreement).

XVI.2. Unless otherwise specified by written notice to the agreement coordinators of DOE and DoD, any report, document, or submittal provided to NDEP, pursuant to a milestone or deadline identified in or developed under the provisions of this Agreement, shall be sent to(article modified by February 2008 Letter Agreement):

Chief
Bureau of Federal Facilities
Division of Environmental Protection
333 West Nye Lane
Carson City, Nevada 89710

with an additional copy provided concurrently to:

Bureau of Federal Facilities
Division of Environmental Protection
555 E. Washington, Suite 4300
Las Vegas, Nevada 89101

XVI.3. Unless otherwise specified by written notice from DOE to the agreement coordinators of the other parties, documents sent to DOE relating to this Agreement shall be sent to (article modified by February 2008 Letter Agreement):

Director, Environmental Restoration Division
U.S. Department of Energy
Nevada Operations Office
P. O. Box 98518
Las Vegas, Nevada 89193-8518

with an additional copy provided concurrently to:

Director, Environmental Protection Division
U. S. Department of Energy
Nevada Operations Office
P. O. Box 98518
Las Vegas, Nevada 89193-8518

XVI.4. Documents sent to DoD shall be sent to the attention of the DoD agreement coordinator as follows, unless DoD specifies otherwise by written notice to the corrective action coordinators of the other parties (article modified by February 2008 Letter Agreement):

Chief, Technical Compliance Division
Defense Nuclear Agency
Field Command, Nevada Operations Office
P.O. Box 208
Mercury, Nevada 89023

with an additional copy provided concurrently to:

Director, Environmental Protection Division
U.S. Department of Energy
Nevada Operations Office
P. O. Box 98518
Las Vegas, Nevada 89193-8518

XVI.5. Within thirty (30) calendar days of the effective date of this Agreement, the parties shall notify each other in writing of the names and addresses of their respective agreement coordinators and corrective action coordinators and their designees who shall be the usual day-to-day points of contact for DOE and DoD respectively.

XVI.6. Each corrective action coordinator shall be responsible for overseeing the day-to-day implementation of the provisions of this Agreement for his/her respective party.

XVI.7. Each agreement coordinator works with the party's corrective action coordinator(s) and shall be responsible for assuring that all communications from the other parties are appropriately disseminated and processed within his/her own organization.

XVI.8. Changes in any of the parties' Agreement coordinators or corrective action coordinators and their designees shall be followed by written notification to the other parties within ten (10) calendar days following the change(s).

XVI.9. The NDEP corrective action coordinator and his/her designees shall have the authority to, among other things:

XVI.9.a. Take, or cause to be taken, samples, duplicate samples, split samples, and/or sub-samples of samples collected by DOE and/or DoD;

XVI.9.b. Ensure, so far as possible, that field and laboratory work are performed pursuant to NDEP-approved CAI work plans;

XVI.9.c. Observe, and/or cause to be observed, all activities performed pursuant to this Agreement; take and/or cause to be taken, photographs consistent with security restrictions, for which purpose DOE consents that DOE "Q" clearances, photographer's permits/official photographer designations shall be issued to qualified NDEP personnel as required by NDEP for this purpose;

XVI.9.d. Review and/or cause to be reviewed, all records, files, and documents relevant to this Agreement, with the determination as to what constitutes relevance made by NDEP.

XVI.10. The DOE and/or DoD corrective action coordinators and their representatives may implement modifications to the field work to be performed pursuant to an approved work plan and will notify NDEP of such action. This does not relieve either DOE or DoD of their respective requirements to meet the performance objectives of the approved work plan.

PART XVII. PUBLIC INVOLVEMENT

XVII.1. Appendix V, Public Involvement Plan, shall contain a mechanism for continually providing information and for actively seeking public input (including input from the Community Advisory Board), concerning DOE and DoD activities undertaken pursuant to this Agreement.

XVII.2. The Public Involvement Plan’s objectives include, among others:

XVII.2.a. Identifying and considering the public's concerns, needs, and values prior to making decisions;

XVII.2.b. Providing an outline of activities and materials which offer accurate, timely, and understandable information to stakeholders (including the general public);

XVII.2.c. Fulfilling all applicable state and federal regulatory requirements regarding public involvement;

XVII.2.d. Planning public involvement activities to reflect current schedules and priorities contained in this Agreement.

XVII.3. At a minimum, public reading rooms shall be located within the two major population centers in the state, one in the north and one in the south. Based on continuing public input, the parties shall annually evaluate the need for additional public reading rooms.

XVII.4. The public reading rooms shall contain the following, when prepared:

XVII.4.a. CAI work plans and reports;

XVII.4.b. Corrective action work plans and reports;

XVII.4.c. CADDs;

XVII.4.d. Health assessments;

XVII.4.e. Risk assessments;

XVII.4.f. Comments and information submitted by the public;

XVII.4.g. National Environmental Policy Act documents;

XVII.4.h. Public Involvement Plan;

XVII.4.i. Public notices;

XVII.4.j. This Agreement;

XVII.4.k. RCRA Permit for NTS;

XVII.4.l. DOE/NDEP Mutual Consent Agreement; and

XVII.4.m. Index of the environmental restoration documents in the public reading room and information on how to acquire further environmental restoration information from NDEP, DOE, or DoD.

PART XVIII. RETENTION OF RECORDS

XVIII.1. DOE and DoD shall establish and maintain a compilation of all work plans, data reports, numerical models, numerical model results, monitoring results, and other writings generated pursuant to this Agreement in accordance with DOE and DoD records retention procedures.

XVIII.2. Such information shall be available to NDEP upon request and will form part of the basis for information to be included in the NDEP's Administrative Record, which includes, but is not limited to, those documents cited in paragraph XVII.4. NDEP shall maintain the Administrative Record in accordance with the requirements of NRS Chapter 239.

XVIII.3. DOE and DoD shall notify NDEP at least one hundred eighty (180) calendar days prior to the proposed destruction or disposal of any documents or records described in this part.

PART XIX. CONVEYANCE OF TITLE

XIX.1. No conveyance of title, easement, or other interest in any of the facilities on which any containment system, treatment system, monitoring system, or other construct is installed or implemented or may be installed or implemented pursuant to this Agreement, shall be consummated by DOE and/or DoD and/or any contractor and/or subcontractor to DOE and/or DoD respectively, without provision for continued maintenance of any such system or other response action(s).

XIX.2. At least one hundred twenty (120) calendar days prior to any such proposed conveyance, DOE and/or DoD shall notify NDEP of the provisions made for the continued operation and maintenance of any system(s) installed or implemented pursuant to this Agreement.

PART XX. SEVERABILITY

XX.1. If any provision of this Agreement (which may include any activity conducted pursuant to this Agreement) is ruled invalid, unenforceable, unlawful, or unconstitutional by a court of competent jurisdiction, the remainder of this Agreement (including other activities taken thereunder) shall not be affected by such ruling.

PART XXI. CLASSIFIED AND CONFIDENTIAL INFORMATION

XXI.1. Personnel designated by NDEP as requiring DOE "Q" clearances who have subsequently been issued such "Q" clearances by the DOE shall be eligible for access to classified information on a "need to know" basis. Only responsible DOE/DoD officials, with the authority to do so, may make the determination of the “need to know.”

Recipients of the information are responsible for protecting all classified information to which they have access or custody. DOE and/or DoD shall provide within ten (10) business days of such refusal a written response to NDEP requests for information related to the Agreement for which they have determined that a “need to know” is not justified. This requirement is hereby established as a deadline. The response shall be complete and specific as to the information that is nondisclosable.

XXI.2. Analytical data and the results of numerical modeling, with the exception of data and modeling results determined to be classified for reasons of National Security, shall not be claimed as nondisclosable.

XXI.3. Those data, documents, records, or files that are nondisclosable pursuant to applicable privileges and laws including the Freedom of Information Act, 5 U.S.C. §552, and the Privacy Act of 1972, 5 U.S.C. §552(a), unless expressly authorized for release by the originating party, shall be handled in accordance with those provisions of law and any implementing regulations. Upon submission of reports, letters, or other Agreement-related writings to NDEP, DOE or DoD shall identify any materials determined by DOE or DoD to be exempt from public disclosure pursuant to the Freedom of Information Act and to the extent required by state law, such materials shall be handled as exempt from public disclosure by NDEP. NDEP will notify the appropriate party within 30 days of its intent to release the information should a determination to release the information be made.

PART XXII. FORCE MAJEURE

XXII.1. A Force Majeure shall mean an event arising from unforeseeable factor(s) that is (are) beyond the control of DOE and/or DoD and/or their respective contractors, subcontractors, and/or operators, which causes delay, or prevents the performance of any task specified under this Agreement. Force Majeure may include:

XXII.1.a. Adverse weather conditions, natural disasters, or events that affect the site or non-site locations, preventing or delaying the transportation or delivery of materials or the availability of labor, that could not reasonably be anticipated;

XXII.1.b. Unanticipated breakage or accident to machinery, equipment, or lines of pipe despite reasonably diligent maintenance;

XXII.1.c. Restraint by court order or order of public authority;

XXII.1.d. Inability to obtain, consistent with statutory requirements and after exercise of reasonable diligence, any necessary authorizations, approvals, permits, or licenses due to action or inaction of any governmental agency or authority other than the DOE or DoD;

XXII.1.e. Delays caused by compliance with applicable statutes or regulations governing contracting, procurement or acquisition procedures, despite the exercise of reasonable diligence; and

XXII.1.f. Any strike or other labor dispute not within the control of the parties thereby affected.

XXII.2. DOE and DoD assert that their ability to meet obligations under this Agreement is subject to the Anti-Deficiency Act, 31 U.S.C. §1341, such that unavailability of funding provides a defense pursuant to this Part. Nothing in this Agreement shall be construed to require a DOE or DoD official to violate the Anti-Deficiency Act. NDEP does not recognize that the Anti-Deficiency Act constitutes a Force Majeure or in any way constitutes a defense or an excuse for failure to comply with the terms and conditions of this Agreement and applicable state and federal laws and requirements. Nothing in this Agreement shall be construed to authorize a DOE or DoD official to violate environmental laws and regulations.

XXII.3. DOE and/or DoD shall bear the burden of establishing that a delay was caused by an unforeseen or unexpected event or occurrence; that the event was beyond the control of DOE and/or DoD; that the event could not have been avoided or overcome by due diligence; and that the event delayed or prevented performance by a date or in the manner required by this Agreement.

XXII.4. To assert a claim of Force Majeure, DOE and/or DoD shall provide verbal notification to the state agreement coordinator after DOE and/or DoD becomes aware of the effect of the event on DOE's and/or DoD's ability to perform the obligations of the Agreement creating the claim of Force Majeure, followed by written confirmation. Failure to assert a claim of Force Majeure shall constitute a waiver of DOE's and/or DoD's right to dispute any denial of an extension request or assessment of stipulated penalties on the basis of the event giving rise to the alleged Force Majeure.

XXII.5. NDEP shall transmit to DOE and/or DoD its written acceptance,

acceptance in part, or rejection of DOE's and/or DoD's claim of Force Majeure within fourteen (14) calendar days of receipt of the written notice of claim. If DOE and/or DoD disagree with NDEP's rejection on such claim, the dispute resolution and appeal process contained in Part IX, Informal Dispute Resolution and Appeal Procedure, may be initiated. For disputes on Force Majeure issues, if the dispute is not resolved during the dispute resolution process set forth in paragraph IX.2, the parties agree that the DOE and DoD may seek judicial review of the decision of the SEC in Federal District Court for Nevada.

PART XXIII. MUTUALITY TO DRAFT OF AGREEMENT

XXIII.1. All terms of this Agreement have been negotiated and mutually drafted by the parties hereto, including consultation with and review by counsel.

PART XXIV. EFFECTIVE DATE OF AGREEMENT

XXIV.1. The effective date of this Agreement shall be the date on which the last party to do so becomes a signatory to this Agreement.

PART XXV. DURATION/TERMINATION

XXV.1. Upon satisfactory completion, as determined by NDEP, of a given milestone in Appendix III, Corrective Action Investigations/Corrective Actions, NDEP shall issue a Notice of Completion to DOE and/or DoD for completion of enforceable milestones.

XXV.2. When a corrective action has been carried out in accordance with the CAP NDEP will issue a Notice of Completion to DOE and/or DoD as appropriate. Following the issuance of a Notice of Completion, the CAU for which the corrective action was carried out shall be listed in Appendix IV, Closed Corrective Action Units, with the list of related CASs.

XXV.3. When all the terms and conditions of this Agreement shall be considered, by NDEP, to have been satisfied by DOE and/or DoD, including satisfactory completion of corrective actions for all CAUs identified for and during the tenure of this Agreement, written notice of the same will be forwarded from NDEP to DOE and/or DoD and such written notice will terminate this Agreement.

PART XXVI. MERGER AND INTEGRATION

XXVI.1. This Agreement merges all prior written and oral communications among the parties concerning this Agreement and contains the final and complete agreement reached by the parties unless subsequently amended in accordance with Part XI, Amendments and Modifications.

PART XXVII. SIGNATORIES

XXVII.1. The undersigned representatives certify that they are fully authorized to enter into this Agreement and to execute and legally bind their respective parties hereto.

FOR THE STATE OF NEVADA:

BY: _____ 3/26/96
L. H. Dodgion, Administrator — Date
Nevada Division of Environmental Protection

FOR THE DEPARTMENT OF ENERGY:

BY: _____ 4/4/96
Terry A. Vaeth, Acting Manager — Date
Nevada Operations Office

FOR THE DEPARTMENT OF DEFENSE

BY: _____ 5/10/96
~~Paul Kaminski~~ — Date
~~Under Secretary of Defense (Acquisition & Technology)~~
GARY L. CURTIN
Major General, USAF
Director, Defense Nuclear Agency

Letter Agreement to Modify the
Federal Facility Agreement and Consent Order

The U.S. Department of Energy, Nevada Operations Office (DOE/NV), the Nevada Division of Environmental Protection (NDEP) and the Department of Defense (DoD) have agreed that paragraph XI.3 of the May 10, 1996, version of the Federal Facility Agreement and Consent Order requires revision. In the interim until the Agreement itself is resigned, the parties intend to comply with a revised provision as described below. This change will allow DOE and NDEP to make changes consistent with the current needs of the Underground Test Area (UGTA) project, specifically it will allow us to update assumptions, the project end date, and the number of Corrective Action Units (CAUs) that can be opened at any one time. All of these subsequent changes to the UGTA strategy would be made following discussions and agreements between the affected Parties. Paragraph XI.3 shall be changed to read as follows:

> "XI.3. This Agreement shall not be modified unless such modification is in writing and signed by all affected parties. Changes to Appendices V, Public Involvement Plan, Appendix VI, Corrective Action Strategy (in order to address and incorporate new technical information per Paragraph XII.5), and the movement of CAUs between appendices as specified in Part V, Description of Appendices, and as specified in Part XII, Corrective Action Investigations/Corrective Actions, shall not be considered modifications of this agreement."

State of Nevada:

Paul J. Liebendorfer, P.E., Chief
Bureau of Federal Facilities
and FFACO Agreement Coordinator

7/19/02
Date

U.S. Department of Energy:

Runore C. Wycoff, Director
Environmental Restoration Division
and FFACO Agreement Coordinator

7/12/02
Date

Defense Threat Reduction Agency:
(formerly Defense Nuclear Agency)

Dr. Jay Davis
Director

6/30/02
Date

Letter Agreement to Modify the
Federal Facility Agreement and Consent Order

The National Nuclear Security Administration Nevada Site Office (NNSA/NSO), the Nevada Division of Environmental Protection (NDEP) and the U. S. Department of Defense (DoD) have agreed that paragraph VII.4 of the May 10, 1996, version of the Federal Facility Agreement and Consent Order (FFACO) requires revision. In the interim until the Agreement itself is resigned, the parties intend to comply with a revised provision as described below. This change affects the reporting requirement to the NDEP as is related to the reporting of field activities. The reporting requirement is changed from a frequency of "bi-weekly" to "monthly." In addition all other guidance related to and citations of the reporting requirements of field activities shall be changed as previously mentioned, including standardized document outlines. Paragraph VII.4 shall be changed to read as follows:

"VII.4. DOE and DoD shall include in their quarterly reports a three-month advance schedule outlining field activities (including the field activities of their respective contractors, subcontractors, operators, and agents), proposed to be implemented under this Agreement. A more detailed schedule shall be provided to NDEP on a *monthly* basis, and shall provide the specific dates for conducting these activities for the subsequent *month*, thereby enabling NDEP to select those activities it deems appropriate to observe."

State of Nevada:

Terre Maize — 4/5/04

Terre A. Maize, Chief
Bureau of Federal Facilities
and FFACO Agreement Coordinator

Date

National Nuclear Security Administration:

Janet Appenzeller-Wing — 3/31/04

Janet Appenzeller-Wing, Acting Director
Environmental Restoration Division
and FFACO Agreement Coordinator

Date

Defense Threat Reduction Agency:

Trudy H. Clark — 22 Mar 04

Trudy H. Clark, Major General, USAF
Acting Director

Date

Letter Agreement to Modify the
Federal Facility Agreement and Consent Order

The National Nuclear Security Administration Nevada Site Office (NNSA/NSO), the Nevada Division of Environmental Protection (NDEP) and the U. S. Department of Defense (DoD) have agreed to modify the May 10, 1996 version of the Federal Facility Agreement and Consent Order. In the interim until the Agreement itself is resigned, the parties intend to comply with the revised provisions as described below. This modification reflects the understanding and commitments between the parties regarding activities at the Central Nevada Test Area (CNTA) and at the Project Shoal Area (PSA). Although these two sites are considered 'Offsite' from the Nevada Test Site proper, the CNTA and PSA will be transferred to the Office of Legacy Management (LM) within the Department of Energy on October 1, 2006. LM is the component of DOE tasked with long-term surveillance and maintenance for CNTA and PSA.

Scope: The Nevada sites, specifically CNTA and PSA, will continue to be addressed through the FFACO in cooperation with LM. In recognition of the cooperative effort between LM and EM on the management of CNTA and PSA, specific duties and responsibilities of the parties are detailed below:

The following describes the roles of NNSA NSO; DOE/LM; and the State of Nevada (NDEP) with regard to this effort:

Nevada Division of Environmental Protection (NDEP) will:

- Continue to be a Party to the FFACO regarding the Offsites, specifically CNTA and PSA, and continue all previous obligations under the FFACO dated May 10, 1996 as amended.

National Nuclear Security Agency Nevada Site Office (NNSA NSO) will:

- Provide sensitive or classified information to appropriately cleared NDEP staff (consistent with national security requirements under the Atomic Energy Act of 1954, as amended); brief personnel about classified aspects of the project; and perform a classification review on prepared NDEP documents, when necessary.

Department of Energy, Office of Legacy Management (DOE/LM) will:

- Assume all DOE responsibility, and implement all DOE requirements outlined in Appendix VI Section 5.0 'Offsites', more specifically the Corrective Action Strategy and the Implementing Corrective Action Investigations and Corrective Actions of the FFACO.

State of Nevada:

Tom Murphy For

Leo M. Drozdoff, Administrator
Department of Conservation and Natural Resources
Division of Environmental Protection

6/20/2006
Date

National Nuclear Security Administration:

Jay H. Norman

Jay H. Norman, Acting Manager
Nevada Site Office

7/6/06
Date

Defense Threat Reduction Agency:

James A. Tegnelia
Director

5 August 06
Date

Department of Energy:

for

Michael Owen, LM-1
Office of Legacy Management

6/15/06
Date

Letter Agreement to Modify the
Federal Facility Agreement and Consent Order

In March 1999 and March 2005 the National Nuclear Security Administration Nevada Site Office (NNSA/NSO), the Nevada Division of Environmental Protection (NDEP) and the U. S. Department of Defense (DoD) agreed to changes in the May 10, 1996 version of the *Federal Facility Agreement and Consent Order* (copies of these two letter agreement modifications are included for your reference). The March 1999 modification was signed to change language in paragraph XII.4.b, from *"...setting of deadlines by NDEP by March 15."* to read *"...that NDEP will establish deadlines within 30 days of receipt of the final proposed DOE and/or DoD milestones..."*. The March 2005 modification was intended to change the language throughout the Agreement from *"...Quarterly Meetings"* to *"...Semi-Annual Meetings"*. This modification was signed with the editing markups still visible in the modification, and inserted the previous *"..March 15"* date (which had been removed by the March 1999 modification) as well as the revised verbiage stating *"...within 30 days of receipt...."*

The NNSA/NSO has discussed the error with their Office of Chief Counsel and upon their recommendation, we are requesting that the March 1999 and March 2005 Letter Agreements to Modify the *Federal Facility Agreement and Consent Order* be rescinded and the attached Letter Agreement Modification replace the two previous Modifications.

In the interim, until the Agreement is revised, the parties intend to comply with the provisions as described below. These changes affect the timeframe for NDEP to establish deadline dates for final proposed milestones as well as the frequency and required topics of meetings. The parties have agreed to hold meetings Semi-Annually (instead of quarterly) in February and August. Additionally, the meeting requirements have been changed to accommodate the new schedule.

Paragraph VII.1 shall be changed to read as follows:

Following the effective date of this Agreement, DOE and DoD shall, on or before the 30th calendar day following the end of each calendar quarter, submit a written or electronic progress report to NDEP that describes the actions taken during the calendar quarter just ended. This information will serve as a partial basis for the discussions at the semi-annual meetings discussed in paragraph XII.4.

Paragraph VII.6 shall be changed to read as follows:

Semi-annual meetings will be held in February and August of each Fiscal Year in part to discuss any issues raised in or by the quarterly progress reports. These meetings will also serve to initiate the prioritization discussions identified in Part XII, Corrective Action Investigations/Corrective Actions. Parties will attempt to resolve issues during the semi-annual meetings or through other meetings per Paragraph VII.7. Resolution of issues will

be documented, and unresolved issues will be discussed at or before the next semi-annual meeting.

Paragraph VII.7 shall be changed to read as follows:

Parties may meet at times other than the semi-annual meetings as required, for example, if there are events, such as changes in available funding that might affect milestones, especially if those milestones are in the current fiscal year.

Paragraph XII.1 shall be changed to read as follows:

Within sixty (60) calendar days following the signing of this Agreement by the last party to do so, the parties shall meet to review Appendices II-IV and concur on the classification of all presently identified CAUs to insure all known CAUs are placed in the appropriate appendix, and where appropriate, due dates and deadlines established for existing and proposed activities. Following this initial meeting, the semi-annual meeting process outlined in paragraphs XII.3 and XII.4 will begin.

Paragraph XII.3 shall be changed to read as follows:

The parties shall review and update Appendices II through IV as required at semi-annual meetings or through formal correspondence. DOE and DTRA:

> XII.3.a. Shall provide NDEP with a list of appendices changes not requiring NDEP approval made since the last semi-annual meeting;
>
> XII.3.b. At any semi-annual meeting or through formal correspondence, may propose changes to the milestones in Appendix III, Corrective Action Investigations/Corrective Actions; move CAUs or CASs from Appendix II, Corrective Action Sites/Units or Appendix III, Corrective Action Investigations/Corrective Actions, to Appendix IV, Closed Corrective Action Units; or request any other changes affecting CAUs or CASs in Appendix III, Corrective Action Investigations/Corrective Actions or Appendix IV, Closed Corrective Action Units.

Paragraph XII.4 shall be changed to read as follows:

Following the transfer of a CAU from Appendix II, Corrective Action Sites/Units, to Appendix III, Corrective Action Investigations/Corrective Actions milestones, associated due dates and deadlines may be proposed by DOE and/or DoD but shall be established by NDEP according to the following semi-annual meeting schedule listed in paragraphs XII.4.a through XII.4.b or through formal correspondence. Except as noted in paragraph XII.5, deadlines may be established for the submittal of work plans, CADDs, CAPs, and completion of corrective actions within the FY+2 planning window. For those work plans, CADDS, CAPs, and corrective actions for which completion may fall outside the planning window (FY+2), interim deadlines may be established within the FY+2

planning window. All deadlines other than those set forth explicitly in this Agreement shall be established pursuant to paragraphs XII.4 and XII.5.

XII.4.a. During the first semi-annual meeting held during the fiscal year, the parties shall review and reconsider established priorities, milestones, and associated due dates and deadlines for the current fiscal year, taking into consideration the Approved Funding Program and the factors listed in section 1.3 of Appendix VI, Corrective Action Strategy. The parties shall also initiate the process to establish priorities, milestones, and associated due dates for CAUs for FY+2. At this meeting, DOE will propose CAU milestones for target and planning funding levels, as appropriate. DOE may choose to develop milestones above the target funding level, but shall identify which proposed milestones are above the target case. NDEP, under its authority, may establish deadlines for any milestones for DOE and DoD activities subsequent to the prioritization process established in Appendix VI, Corrective Action Strategy. DoD asserts it is not able to commit to these FY+2 enforceable dates. Prioritized CAUs with their associated milestones, due dates, and/or deadlines shall be listed in Appendix III, Corrective Action Investigations/Corrective Actions. Parties reserve the right to invoke paragraph IX.1 if an issue is not resolved. Subsequent to this meeting, input on the proposed priorities will be sought from the public and the Community Advisory Board. DOE and DoD, in cooperation with NDEP, will develop a final prioritization of CAUs for CAIs and corrective actions. NDEP will establish deadlines within 30 days of receipt of the final proposed DOE and/or DoD milestones for all prioritized CAU activities it asserts must be incorporated into the FY +2 Budget Request. If the parties cannot agree on deadlines, then Part IX, Informal Dispute Resolution and Appeal Procedure, may be invoked.

XII.4.b. During the second semi-annual meeting held during the fiscal year, the parties shall review and reconsider established priorities, milestones, and associated due dates and deadlines for CAUs considering factors established in Appendix VI, Corrective Action Strategy, and the President's budget for FY+1. Parties reserve the right to invoke paragraph IX.1 if an issue is not resolved.

XII.4.c. This section is no longer applicable and will be deleted. Requirements from this section have been incorporated in Section XII.4.b.

State of Nevada:

for

Leo M. Drozdoff, Administrator
Department of Conservation and Natural Resources
Division of Environmental Protection

12/6/2006
Date

National Nuclear Security Administration:

for

Jay H. Norman, Acting Manager
Nevada Site Office

11.22.06
Date

Defense Threat Reduction Agency:

James A. Tegnelia
Director

4 Jan 07
Date

Department of Energy:

for

Michael Owen, LM-1
Office of Legacy Management

01/03/07
Date

Letter Agreement to Modify the
Federal Facility Agreement and Consent Order

The National Nuclear Security Administration Nevada Site Office (NNSA/NSO); the Nevada Division of Environmental Protection (NDEP), the U.S. Department of Defense (DoD); and the U.S. Department of Energy, Office of Legacy Management (DOE/LM) have agreed to modify the May 10, 1996, version of the Federal Facility Agreement and Consent Order. In the interim, until the Agreement itself is resigned, the parties intend to comply with the revised provisions as described below. This modification reflects administrative changes to the agreement. The specific changes and paragraphs are listed below and include, but are not limited to: recording the name change of the Nevada Operations Office to the Nevada Site Office; recording the name change of the Nellis Air Force Range (NAFR) to the current name of the Nevada Test and Training Range (NTTR); reflecting the current Corrective Action Unit and Corrective Action Site numbers for Soils and the Underground Test Area (UGTA) listed in Appendix VI; update of the Resource Conservation and Recovery Act (RCRA) permit number; and update of the addresses of the parties to the Agreement.

1. Nellis Air Force Range (NAFR) will be changed to Nevada Test and Training Range (NTTR) in the following portions of the Agreement and throughout Appendices I and VI.
   - Lines 14 and 15 of the Introduction and Articles IV.26 and IV.32 of the Agreement.

2. RCRA permit number will be changed from NEV HW009 to NEV HW0021 in the following portions of the Agreement and Appendix VI.
   - Article II.1.f of the Agreement.

3. Nevada Operations Office will be changed to Nevada Site Office in the following portions of the Agreement and Appendix VI.
   - Articles VII.5, XVI.3, and XVI.4 of the Agreement.

4. In Article XII.5, first sentence, the word "will" is being replaced with the word "may" and the sentence will read as follows: "One (1) milestone, with an associated due date or deadline, beyond FY+2 may be established for the completion of UGTA."

5. In Article XVI.1, first sentence, the reference to the Carson City Office will be removed from the sentence and the sentence will read as follows: "Documents shall be sent to NDEP in a manner designed to be received by the date due in the Las Vegas office."

6. Article XVI.2 shall be changed to reflect that NDEP will receive two hard copies of documents and the reference to the address of the Carson City office will be removed. The paragraph will now read: "Unless otherwise specified by written notice to the agreement coordinators of DOE and DoD, any written report, document, or submittal provided to NDEP, pursuant to a milestone or deadline identified in or developed under the provisions of this Agreement, two hard copies shall be sent to:

Chief
Bureau of Federal Facilities
Division of Environmental Protection
2030 East Flamingo Road, Suite 230
Las Vegas, NV 89119-0818

7. Article XVI.4 shall be changed to update the current mailing information for DoD as follows:

Chief, Detachment 1, Nevada Operations
Defense Threat Reduction Agency
P.O. Box 208
Mercury, NV 89023

8. A new article should be added to include the address for U.S. Department of Energy, Office of Legacy Management; however, since the agreement itself is not being rewritten, in order to insert the address in the proper place in the agreement and to avoid renumbering subsequent articles, Article XVI.4 will include a sub-paragraph numbered XVI.4.a to include the address as follows:

Program Manager
U. S. Department of Energy
Office of Legacy Management
2597 B ¾ Road
Grand Junction, Colorado 81503

9. A table of contents and a list of acronyms shall be added to Appendix I.

State of Nevada:

Leo M. ~~Drozdoff, Administrator~~
For Department of Conservation and Natural Resources
Division of Environmental Protection

1/17/2008
Date

National Nuclear Security Administration:

Gerald L. Talbot, Jr., Manager
Nevada Site Office

1/17/08
Date

Defense Threat Reduction Agency:

James A. Tegnelia
Director

2/20/08
Date

Department of Energy:

Michael Owen, LM-1
Office of Legacy Management

2/1/08
Date

Letter Agreement to Modify the
Federal Facility Agreement and Consent Order

The National Nuclear Security Administration Nevada Site Office (NNSA/NSO), the Nevada Division of Environmental Protection (NDEP), the U. S. Department of Defense (DoD), and the U. S. Department of Energy, Office of Legacy Management (DOE/LM) have agreed to modify the May 10, 1996 version of the Federal Facility Agreement and Consent Order. In the interim, until the Agreement itself is resigned, the parties intend to comply with the revised provisions as described below. This modification reflects changes to: Paragraphs VII.1, VII.6, VII.7, XII.1, XII.3 and XII.4 regarding the frequency of meetings; a change to Paragraph XVIII.2 regarding NDEP's maintenance of records; and updates to Appendix VI regarding the Underground Test Area (UGTA) strategy. The specific changes and paragraphs are listed below. The changes made to Appendix VI were made in the Appendix and Revision 3 of the Appendix is included for review along with this letter mod reflecting where changes are being made to the Agreement.

1. Paragraph VII.1 shall be changed to read as follows:

   Following the effective date of this Agreement, DOE and DoD shall, on or before the 30th calendar day following the end of each calendar quarter, submit a written or electronic progress report to NDEP that describes the actions taken during the calendar quarter just ended. This information will serve as a partial basis for the discussions at the annual meeting discussed in paragraph XII.4

2. Paragraph VII.6 shall be changed to read as follows:

   Annual meetings will be held in February of each year. These meetings will serve to initiate the prioritization discussions identified in Part XII, Corrective Action Investigations/Corrective Actions. Parties will attempt to resolve issues during the annual meeting. Resolution of issues will be documented, and unresolved issues will be discussed at or before the next annual meeting.

3. Paragraph VII.7 shall be changed to read as follows:

   Parties may meet at times other than the annual meeting as required, for example if there are events, such as changes in available funding, that might affect milestones, especially if those milestones are in the current fiscal year.

4. Paragraph XII.1 shall be changed to read as follows:

   Within sixty (60) calendar days following the signing of this Agreement by the last party to do so, the parties shall meet to review Appendices II-IV and concur on the classification of all presently identified CAUs to ensure all known CAUs are placed in the appropriate appendix, and where appropriate, due date and deadlines established for existing and proposed activities. Following this initial meeting, the annual meeting process outlined in paragraphs XII.3 and XII.4 will begin.

5. Paragraph XII.3 shall be changed to read as follows:

   The parties shall review and update Appendices II through IV as required at annual meetings or through formal correspondence. DOE and DoD:

   > XII.3.a. Shall provide NDEP with a list of appendices changes not requiring NDEP approval made since the last annual meeting.
   >
   > XII.3.b At any annual meeting or through formal correspondence, may propose changes to the milestones in Appendix III, Corrective Action Investigations/Corrective Actions; move CAUs or CASs from Appendix II, Corrective Action Sites/Units or Appendix III, Corrective Action Investigations/Corrective Actions, to Appendix IV, Closed Corrective Action Units; or request any other changes affecting CAUs or CASs in Appendix III, Corrective Action Investigations/Corrective Actions or Appendix IV, Closed Corrective Action Units.

6. Paragraph XII.4 shall be changed to read as follows:

   Following the transfer of a CAU from Appendix II, Corrective Action Sites/Units, to Appendix III, Corrective Action Investigations/Corrective Actions milestones, associated due dates and deadlines may be proposed by DOE and/or DoD but shall be established by NDEP according to the following annual meeting schedule listed in paragraphs XII.4.a through XII.4.b or through formal correspondence. Except as noted in paragraph XII.5, deadlines may be established for the submittal of work plans, CADDs, CAPs, and completion of corrective actions within the FY+2 planning window. For those work plans, CADDs, CAPs, and corrective actions for which completion may fall outside the planning window (FY+2), interim deadlines may be established within the FY+2 planning window. All deadlines other than those set forth explicitly in this Agreement shall be established pursuant to paragraphs XII.4 and XII.5.

   > XII.4.a During the annual meeting the parties shall review and reconsider established priorities, milestones, and associated due dates and deadlines for the current fiscal year, taking into consideration the Approved Funding Program and the factors listed in section 1.3 of Appendix VI, Corrective Action Strategy. The parties shall also initiate the process to establish priorities, milestones, and associated due dates for CAUs for FY+2. At this meeting, DOE will propose CAU milestones for target and planning funding levels, as appropriate. DOE may choose to develop milestones above the target funding level, but shall identify which proposed milestones are above the target case. NDEP, under its authority, may establish deadlines for any milestones for DOE and DoD activities subsequent to the prioritization process established in Appendix VI, Corrective Action Strategy. DoD asserts it is not able to commit to these

FY+2 enforceable dates. Prioritized CAUs with their associated milestones, due dates, and/or deadlines shall be listed in Appendix III, Corrective Action Investigations/Corrective Actions. Parties reserve the right to invoke paragraph IX.1 if an issue is not resolved. Subsequent to this meeting, input on the proposed priorities will be sought from the public and the Community Advisory Board. DOE and DoD, in cooperation with NDEP, will develop a final prioritization of CAUs for CAIs and corrective actions. NDEP will establish deadlines within 30 days of receipt of the final proposed DOE and/or DoD milestones for all prioritized CAU activities it asserts must be incorporated into the FY+2 Budget Request. If the parties cannot agree on deadlines, the Part IX, Informal Dispute Resolution and Appeal Procedure, may be invoked.

XII.4.b In lieu of the second semi-annual meeting, the FY + 1 milestone chart will be distributed for review and reconsideration of established milestones and associated due dates and deadlines. The FY + 1 milestone chart will be distributed by the end of August each year. Parties reserve the right to invoke paragraph IX.1 if an issue is not resolved.

(XII.4.c has been deleted in its entirety per the Letter Mod dated January 14, 2007)

7. Paragraph XVIII.2, shall be changed to read as follows:

   Such information shall be available to NDEP upon request and will form part of the basis for information to be included in the NDEP's record, which includes, but is not limited to, those documents cited in paragraph XVII.4. NDEP shall maintain the record in accordance with the requirements of NRS Chapter 239.

Appendix VI – Updates have been made to Section 1.0 – Introduction, and Section 3.0 - Underground Test Area.

Letter Agreement to Modify the
Federal Facility Agreement and Consent Order

State of Nevada:

Leo M. Drozdoff, Administrator
Department of Conservation and Natural Resources
Division of Environmental Protection

9/25/09
Date

National Nuclear Security Administration:

for Steven J. Lawrence
Stephen A. Mellington
Nevada Site Office

3.17.10
Date

Defense Threat Reduction Agency:

Kenneth A. Myers III
Director

2/25/10
Date

Department of Energy:

David W. Geiser, Deputy Director
Office of Legacy Management, LM-1

10/30/09
Date

Appendix I

Description of Facilities

Revision No.: 5

November 2013

Federal Facility Agreement
And Consent Order
(FFACO)

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List of Acronyms and Abbreviations

AEC	U.S. Atomic Energy Commission
Am	Americium
BLM	Bureau of Land Management
cm	Centimeter
CNTA	Central Nevada Test Area
DoD	Department of Defense
DOE	U.S. Department of Energy
FFACO	*Federal Facility Agreement and Consent Order*
ft	Foot
keV	Kiloelectron volt
NNSS	Nevada National Security Site
NTTR	Nevada Test and Training Range
MOU	Memorandum of Understanding
pCi/g	Picocuries per gram
PSA	Project Shoal Area
Pu	Plutonium
TTR	Tonopah Test Range
USAF	U.S. Air Force
U.S.C.	*United States Code*

1.0 Description of Facility

The *Federal Facility Agreement and Consent Order* (FFACO) applies to land controlled, managed, owned, or leased by the U.S. Department of Energy (DOE) and/or the U.S. Department of Defense (DoD) in the state of Nevada. Specifically, the Agreement covers the Nevada National Security Site (NNSS), parts of the Tonopah Test Range (TTR), the Central Nevada Test Area (CNTA), the Project Shoal Area (PSA), and parts of the Nevada Test and Training Range (NTTR) (Figure 1-1).

1.1 Nevada National Security Site

The NNSS is a DOE installation occupying approximately 1,350 square miles (882,332 acres) in southeastern Nye County, Nevada. The site is federally owned; access controlled; and withdrawn from settlement, sale, location, or entry. The withdrawal also excludes public mining and mineral leasing.

The area recognized as the NNSS is composed of four separate land transfers from other federal agencies to the Atomic Energy Commission (AEC).

- Executive Order 9337, signed by President Roosevelt on April 24, 1943, resulted in the Bureau of Land Management (BLM) issuing Public Land Order 805 (February 12, 1952) to transfer approximately 437,020 acres of U.S. Air Force (USAF) land to the AEC for use as a weapons testing site.

- Public Land Order 3759, issued under Executive Order 10355 signed on May 26, 1952, withdrew approximately 21,108 acres of BLM-managed land to the AEC in support of the NTS.

- Pursuant to Public Land Order 2568 (December 19, 1961), and under the authority of Executive Order 10355 on May 26, 1952, approximately 318,000 acres of the Nellis Air Force Range was transferred from the USAF to the AEC for use in connection with the NTS for test facilities, utilities, and safety distances.

- A Memorandum of Understanding (MOU) with the USAF, signed on November 1, 1963, granted the AEC the unconditional use and operational control of approximately 106,000 acres of USAF land in the Pahute Mesa area.

In addition, the *Military Lands Withdrawal Act* of 1999 (Public Law 106-65) requested that Pahute Mesa be transferred to the DOE and increase the size of the NNSS from 1,350 square miles to 1,375 square miles. For the purposes of the FFACO, except for: the exclusion of Public

Land Order of 1662; and the inclusion of the Pahute Mesa per the *Military Lands Withdrawal Act* of 1999 (Figure 1-2).

For the purposes of the FFACO, the boundaries of the NNSS will be defined as recorded in the Holmes and Narver, Inc., survey of April 16, 1986, except for the exclusion of Public Land Order 1662 (Figure 1-2). Any activities undertaken by DOE or successor agencies pursuant to the terms of the Nuclear Waste Policy Act, 42 *United States Code* (U.S.C.) Section 10101 et seq., as amended, or subsequent legislation of similar scope and purpose that may be enacted by Congress, are specially excluded from the Agreement and this Appendix.

The DoD is a tenant of the DOE on the NNSS. The division of responsibilities between the two parties is the subject of an MOU between the DOE and the Defense Nuclear Agency. Cleanups required as a result of testing activities conducted by the DoD are joint responsibilities at some sites; the remainder are the sole responsibility of the DoD.

1.2 Tonopah Test Range

Portions of the TTR, located in Nye County, and the activities thereon have been managed by the AEC or the DOE for the USAF since an initial MOU was signed in 1956. Approximately 370,000 acres were designated to support research related to the weapons development program (Figure 1-3). The DOE has responsibility for remediation efforts on the TTR for those sites resulting from past DOE activities. As described in an MOU dated April 1, 1969, the boundaries are as follows:

> An area approximately 24 by 26 miles starting from a point on the northern boundary of the NTTR at approximately 37 53’ N - 116 26’ W, thence 26 miles west to approximately 37 53’ N – 116 55’ W, thence south to approximately 37 33’ N - 16 55’ W, thence 26 miles east to approximately 37 33’ N - 116 26’ W, thence 24 miles north to point of beginning. A 1999 MOU amended the TTR boundaries (see Figure 1-3).

1.3 Central Nevada Test Area

The CNTA consists of three noncontiguous unmanned sites in Hot Creek Valley, approximately 80 miles east of Tonopah (Figure 1-4). A large-diameter borehole specifically designed for nuclear testing was drilled at each site; one site was utilized. The unused boreholes are 120 inches in diameter and drilled to a depth of 5,500 feet (ft) with 56-inch diameter casing

installed to 4,846 ft. There are also numerous small-diameter monitoring wells on the sites. The large-diameter wells and most of the small-diameter wells have been plugged and abandoned.

Pursuant to Executive Order 10355, signed May 26, 1952, Public Land Order 4338 was issued on December 6, 1967, to withdraw a parcel of approximately 640 acres in Nye County for the AEC to conduct underground atomic energy experiments. The parcel is located as follows:

Mount Diablo Meridian
T. 9 N., R. 51 E. (unsurveyed)
Parcel: SW¼, Sec. 14; SE¼, Sec. 15; NE¼, Sec. 22; and NW¼, Sec. 23.

Pursuant to Executive Order 10355, signed May 26, 1952, Public Land Order 4748 was issued on December 2, 1969, to withdraw approximately 1,920 acres in two parcels in Nye County for the AEC to conduct underground atomic energy experiments. They were located as follows:

Mount Diablo Meridian
Parcel 1: T. 9 N., R. 51 E. (unsurveyed). Beginning at a point, said point being S. 67E34'33" W., 11,046,966 ft from the southeast corner of T. 9 N., R. 51 E., W. 5,280 ft; N. 7,920 ft; E. 5,280 ft; and S. 7,920 ft, to the point of beginning.

Parcel 2: T. 9., R. 51 E., (unsurveyed), Sec. 2 NW¼; Sec. 3, N½. T. 10 N., R. 51 E., Sec. 34, S½; Sec. 35, SW¼.

1.4 Project Shoal Area

The PSA is located approximately 30 miles southeast of Fallon in the Sand Springs Mountains (Figure 1-5). Memorandum of Understanding AT (26-1) 255 (January 1, 1966) resulted in the site being under the joint use and control of the U.S. Navy and the DOE.

Pursuant to Executive Order 10355, signed May 26, 1952, Public Land Order 2771 was issued on September 6, 1962, to withdraw approximately 2,560 acres in Churchill County for use by the AEC for experimental project purposes and allied safety areas (Figure 1-5). The site was located as follows:

T. 16 N., R. 32 E., Secs. 33 and 34. T. 15 N., R. 32 E. (unsurveyed), Secs. 3 and 4.

Public Land Order 2834 corrected Public Land Order 2771 to cover Secs. 33 and 34.

1.5 Nevada Test and Training Range

Portions of the NTTR, located in Nye, Lincoln, and Clark Counties, were used by the DOE or the AEC for nuclear testing or related activities. Only those portions of the NTTR contaminated during these activities are subject to the terms of the FFACO. To date, four areas on the NTTR have been identified as the responsibility of the DOE. All ground zero coordinates are Nevada State Plane, Central Zone.

- Area 13 - A safety experiment (Project 57 No. 1) with ground zero coordinates of N 932646, E 688515 was detonated on April 24, 1957. Preliminary surveys define the impacted area as displayed in Figure 1-6.

- Small Boy - A nuclear detonation with ground zero coordinates of N 747908, E 717118 was detonated on July 14, 1963. Preliminary surveys define the impacted area as displayed in Figure 1-7.

- Double Tracks - A storage-transportation test shot with ground zero coordinates of N 1076306, E 407268 was detonated on May 15, 1963. Preliminary surveys define the impacted area as displayed in Figure 1-8.

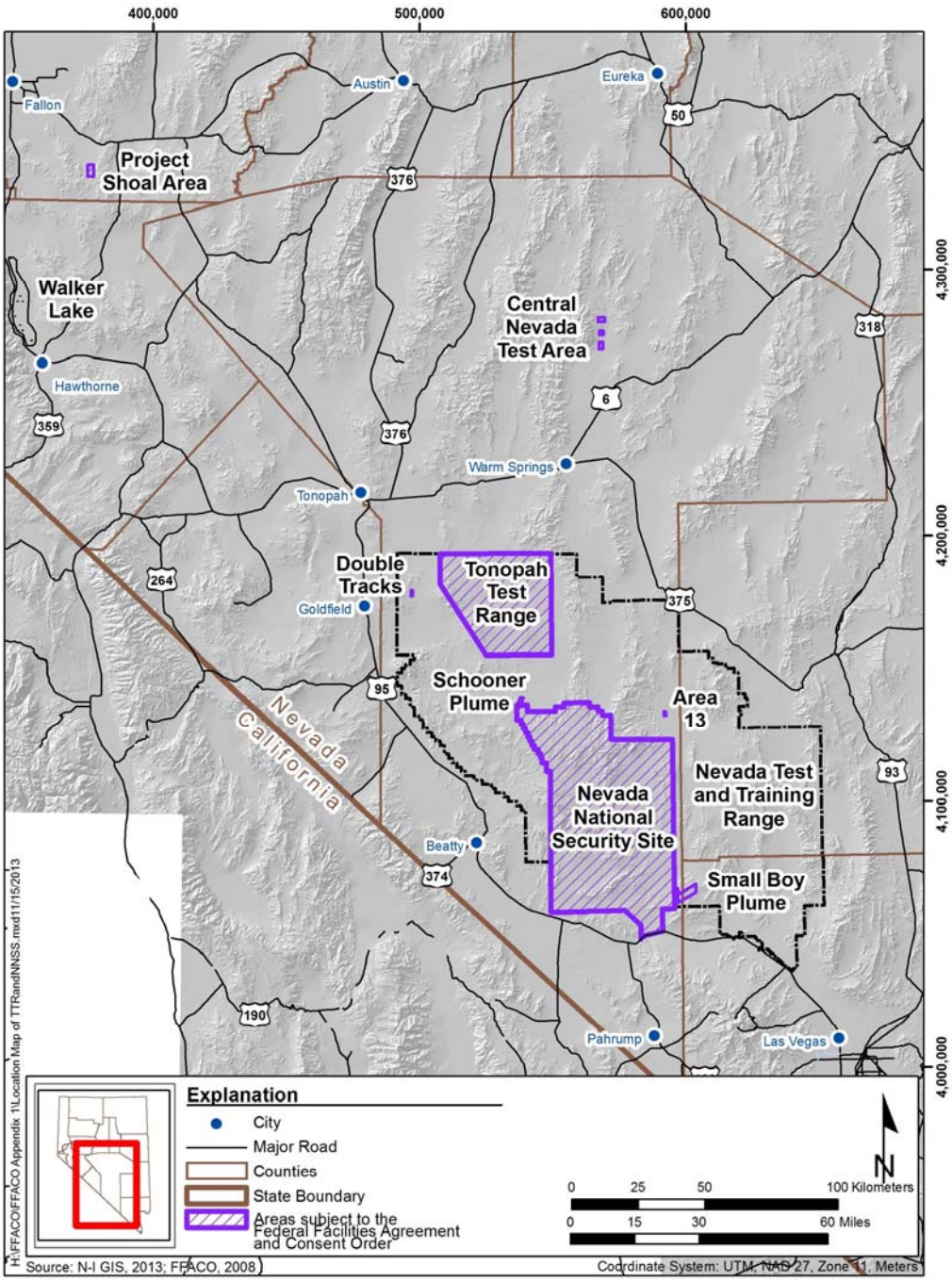

Figure 1-1
Areas Subject to the *Federal Facility Agreement and Consent Order*

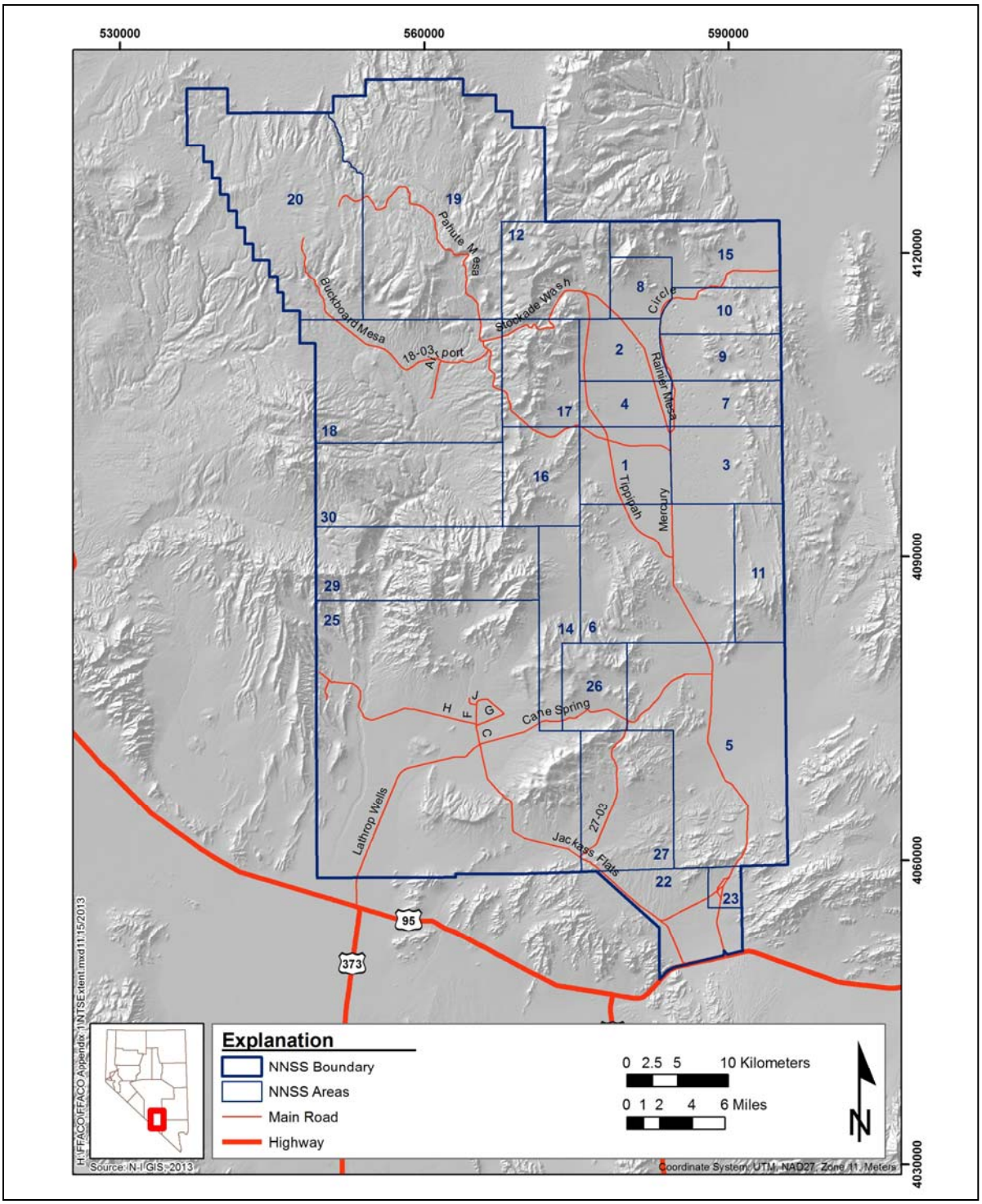

Figure 1-2
Nevada National Security Site Boundary Coordinates

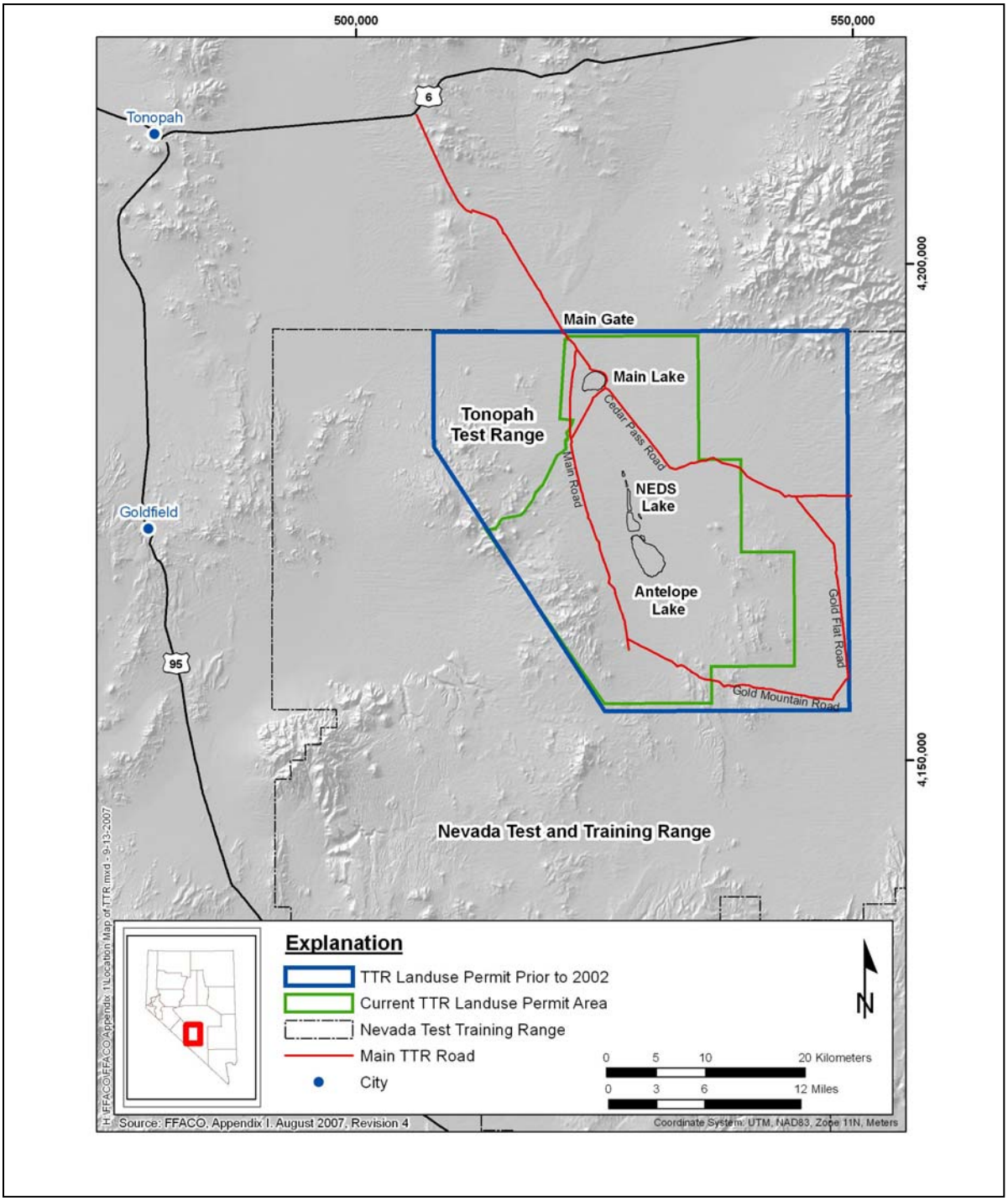

Figure 1-3
Location of Tonopah Test Range

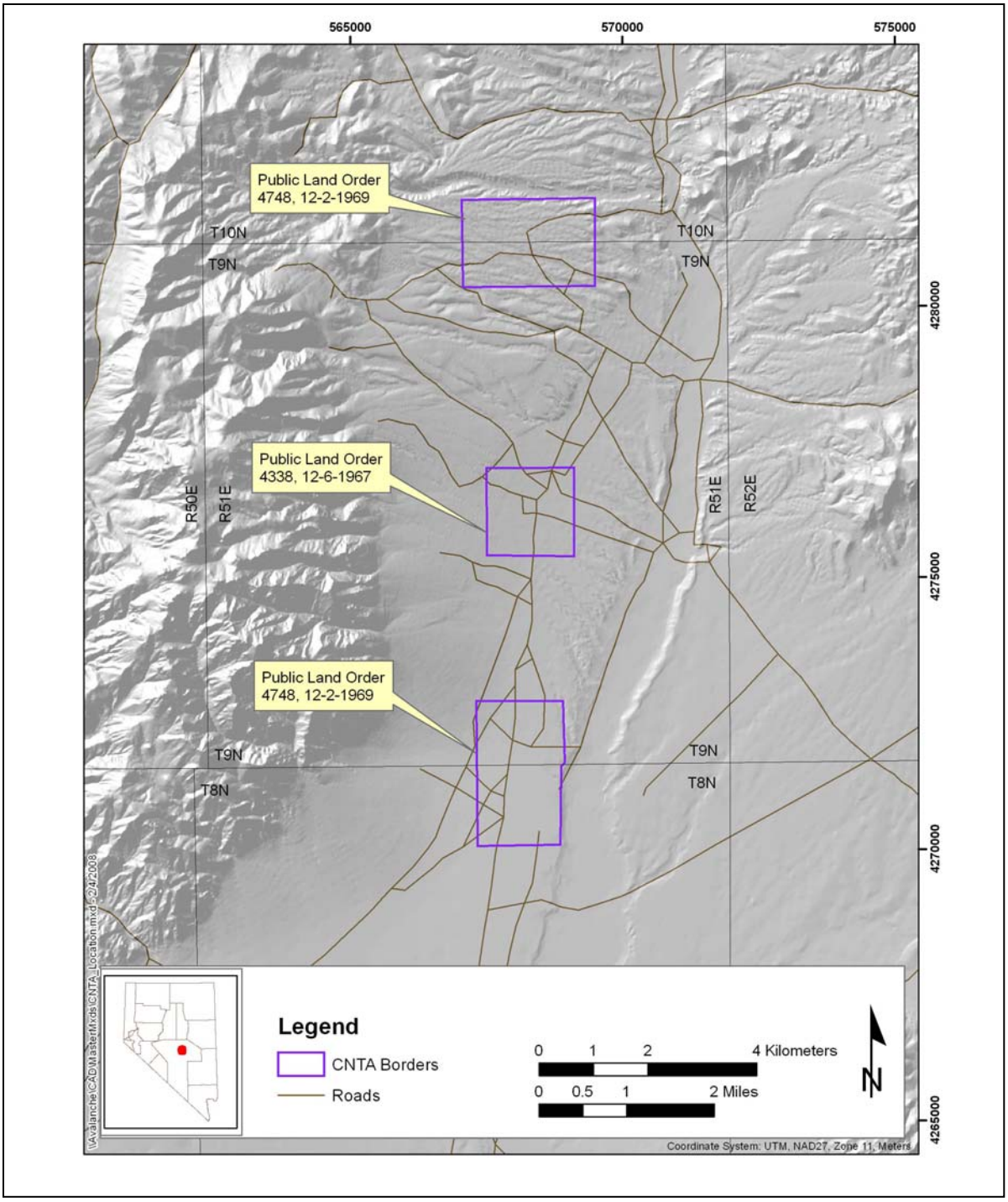

Figure 1-4
Location of Central Nevada Test Area

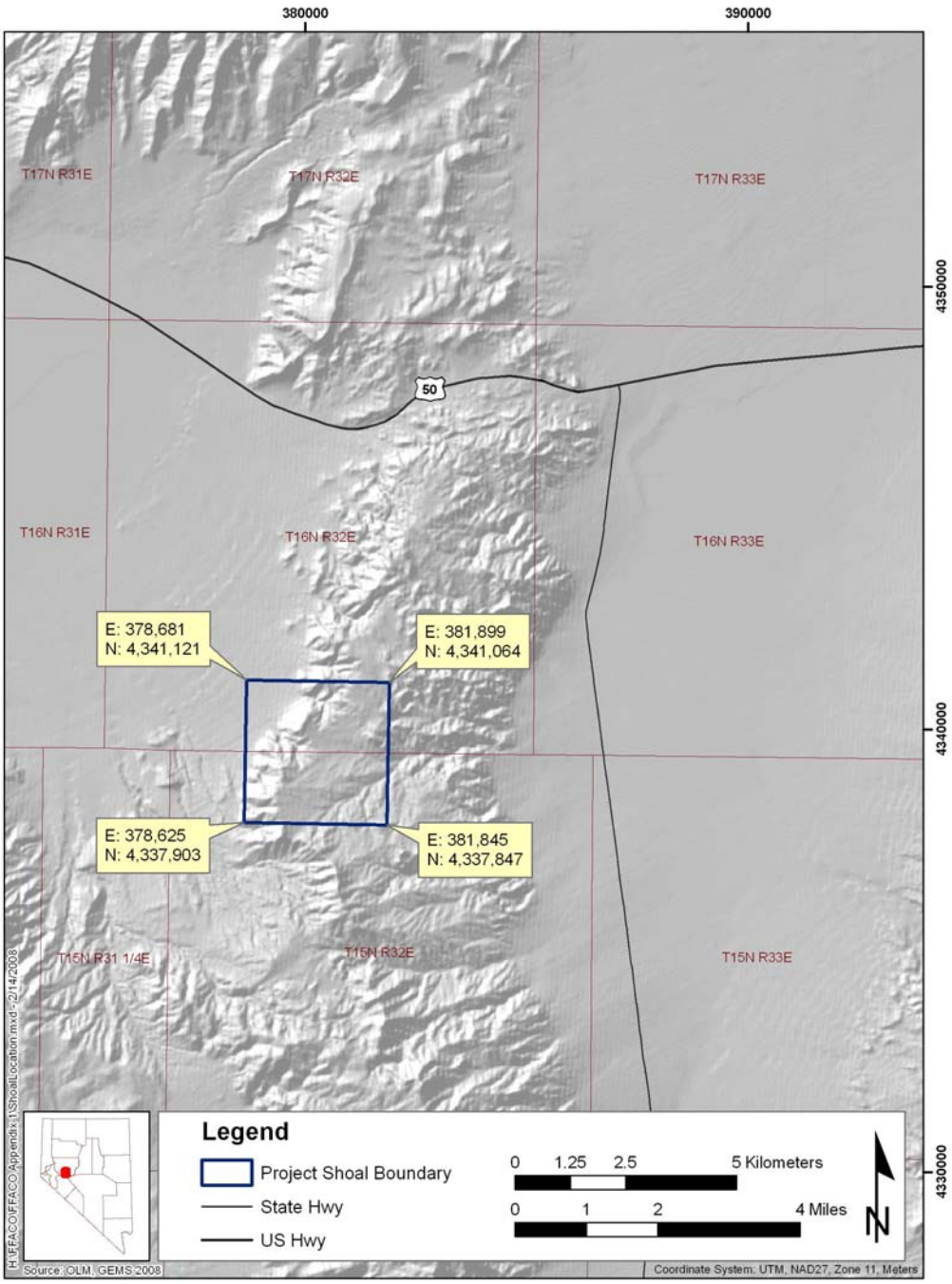

Figure 1-5
Location of Project Shoal Area

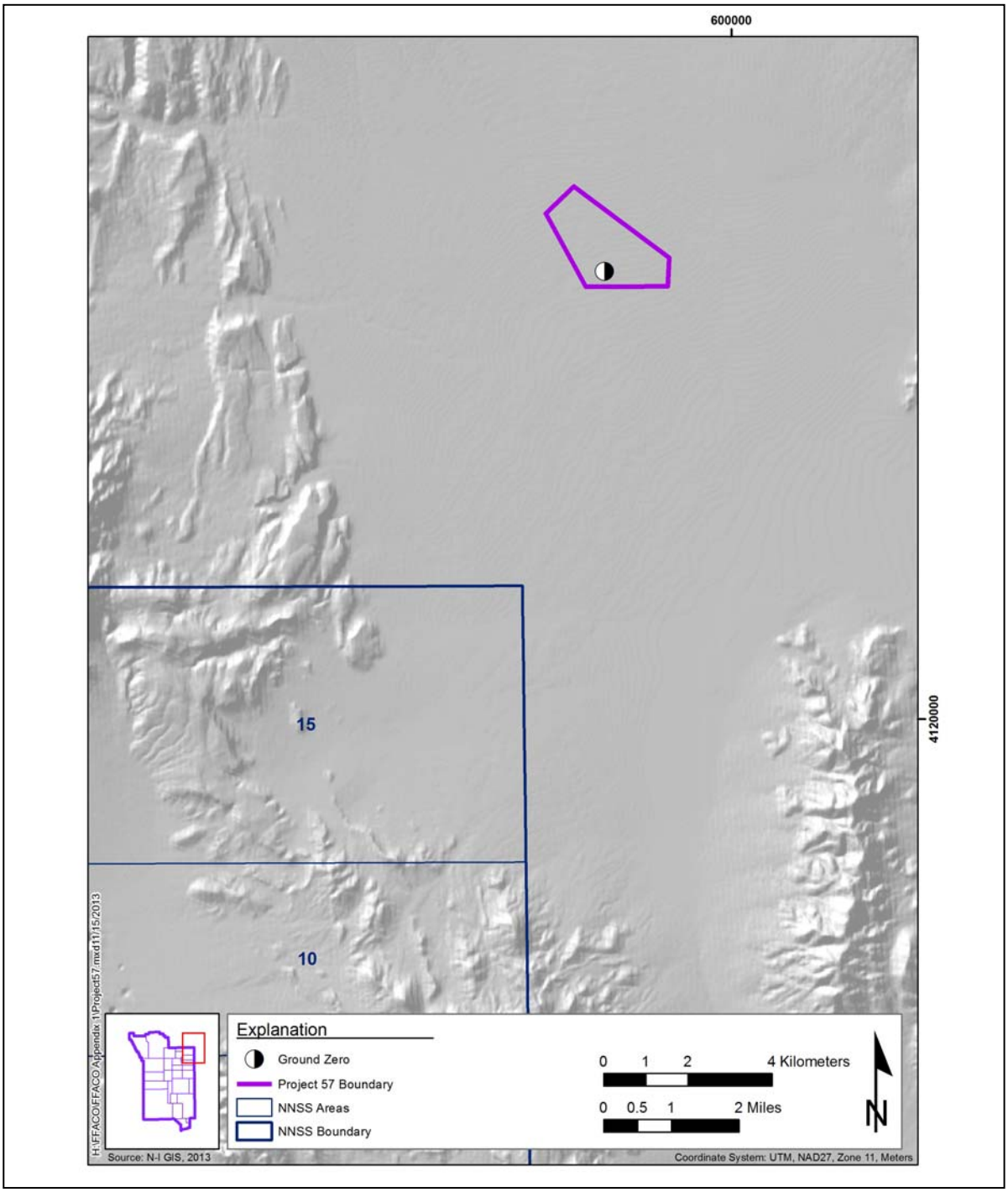

Figure 1-6
Area Subject to the *Federal Facility Agreement and Consent Order* in the Vicinity of Area 13

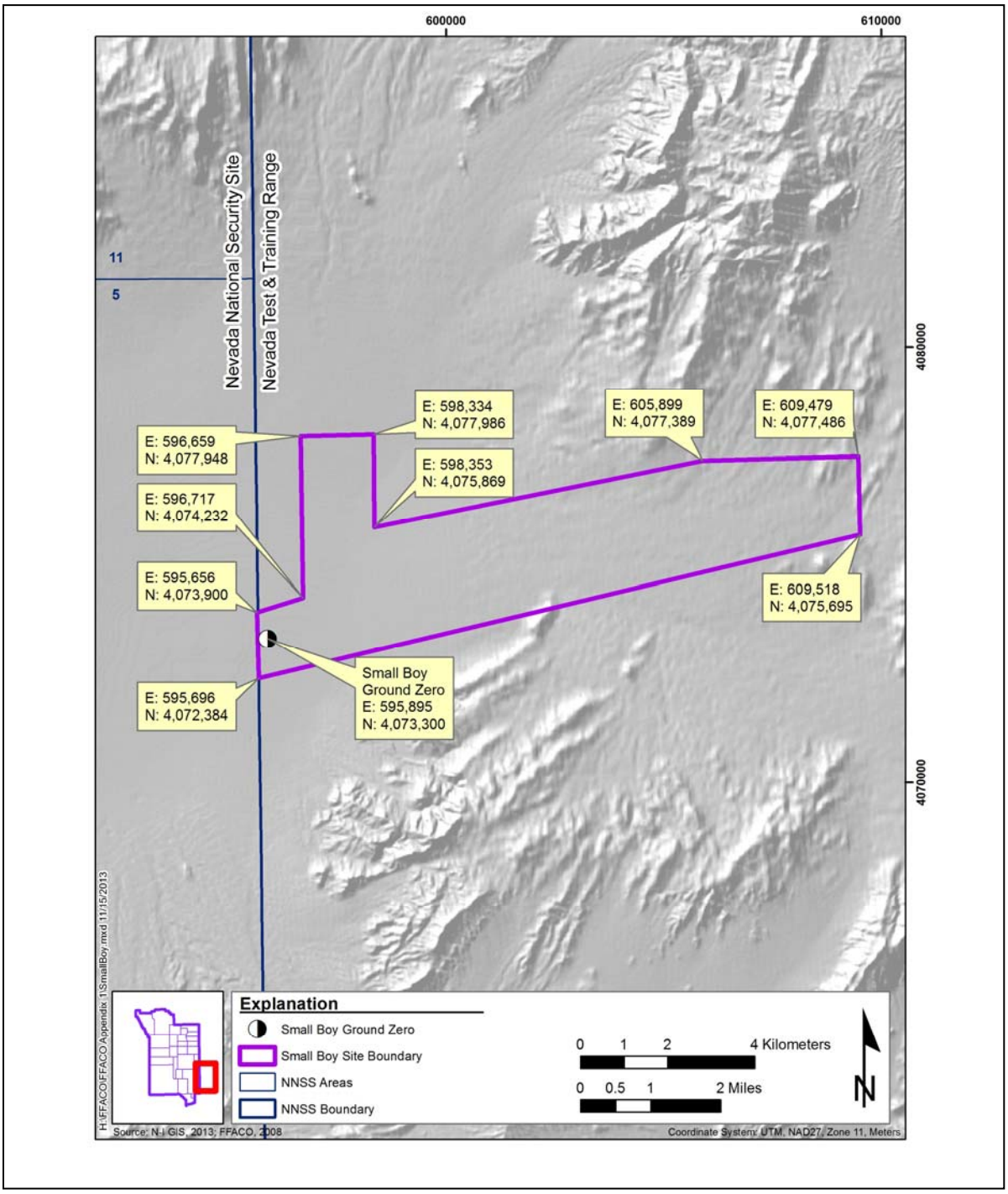

Figure 1-7
Area Subject to the *Federal Facility Agreement and Consent Order* in the Vicinity of Small Boy

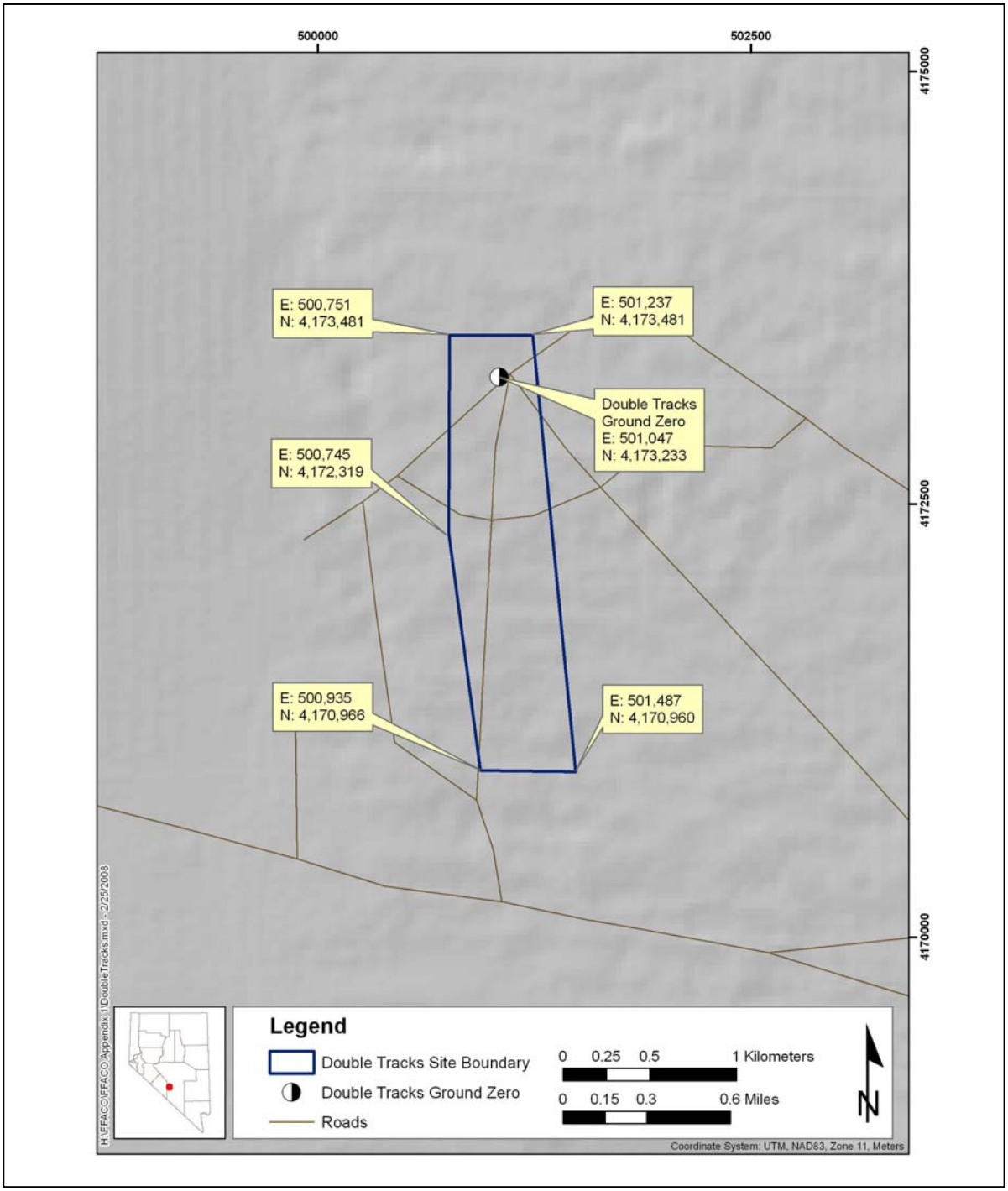

Figure 1-8
Area Subject to the *Federal Facility Agreement and Consent Order* in the Vicinity of Double Tracks

Appendix II

Corrective Action Sites/Units

Revision No.: 34

July 2013

Federal Facility Agreement
and Consent Order
(FFACO)

CAU Number: **572 Test Cell C Ancillary Building and Structures**
Owner: NNSA / Industrial Sites - DP

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-33-01	Building 3220, Equipment Building	Building	Test Cell C Facility	Jackass Flats
25-33-02	Building 3230, Motor Drive Building	Building	Test Cell C Facility	Jackass Flats
25-33-03	Building 3231, Pump House	Building	Test Cell C Facility	Jackass Flats
25-33-04	Building 3232, Cryogenic Evaluation Lab	Building	Test Cell C Facility	Jackass Flats
25-33-05	Building 3901, Engine Transport System Maintenance Building	Building	EMAD Facility	Jackass Flats
25-99-22	Ancillary Facilities	Other	Test Cell C Facility	Jackass Flats

CAU Number: **414 Clean Slate III Plutonium Dispersion (TTR)**
Owner: NNSA / Soils - ER

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
TA-23-03CS	Pu Contaminated Soil	Rad Contamination Area	Clean Slates III	Stinking Spring SE

CAU Number: **415 Project 57 No. 1 Plutonium Dispersion (NAFR)**
Owner: NNSA / Soils - ER

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
NAFR-23-02	Pu Contaminated Soil	Rad Contamination Area	Project 57 No. 1	Groom Mine SW

Appendix III

Corrective Action Investigations/ Corrective Actions

Revision No.: 34

July 2013

Federal Facility Agreement
and Consent Order
(FFACO)

FFACO
Appendix III - Corrective Action Investigations/Corrective Actions

CAU Number: **114 Area 25 EMAD Facility**

Owner: NNSA / Industrial Sites - ER

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan Rev. 1 to State	N/A	6/17/2010	7/12/2010	7/12/2010	
SAFER Plan to State	8/17/2009	8/13/2009	8/24/2009	8/24/2009	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-41-03	EMAD Facility	D&D Facility	Building 3900	Jackass Flats
25-99-23	Manned Control Car (MCC) and Engine Installation Vehicle (EIV)	D&D Facility	EMAD Compound	

FFACO
Appendix III - Corrective Action Investigations/Corrective Actions

CAU Number: **105 Area 2 Yucca Flat Atmospheric Test Sites**

Owner: NNSA / Soils - ER

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	10/9/2012	9/18/2012	10/5/2012	10/5/2012	
CADD to State	10/2/2013	N/A	N/A	N/A	
CAP to State	7/11/2014	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-23-04	Atmospheric Test Site - Whitney	Rad Contamination Area	Whitney	Oak Spring
02-23-05	Atmospheric Test Site T-2A	Rad Contamination Area	Shasta	Oak Spring
02-23-06	Atmospheric Test Site T-2B	Rad Contamination Area	Diablo	Oak Spring
02-23-08	Atmospheric Test Site T-2	Rad Contamination Area	Badger, How	Oak Spring
02-23-09	Atmospheric Test Site - Turk	Rad Contamination Area	Turk	Oak Spring

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Appendix III - Corrective Action Investigations/Corrective Actions

CAU Number: **366 Area 11 Plutonium Valley Dispersion Sites**

Owner: NNSA / Soils - ER

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP To State	10/30/2011	9/27/2011	10/20/2011	10/20/2011	
CADD to State	11/16/2012	9/26/2012	10/22/2012	10/22/2012	
CAP to State	5/1/2013	4/15/2013	4/25/2013	4/25/2013	
Closure Report to State	12/31/2013	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
11-08-01	Contaminated Waste Dump #1	Rad Contamination Area	Project 56	Plutonium Valley
11-08-02	Contaminated Waste Dump #2	Rad Contamination Area	Project 56	Plutonium Valley
11-23-01	Radioactively Contaminated Area A	Rad Contamination Area	Project 56 No. 1	Plutonium Valley
11-23-02	Radioactively Contaminated Area B	Rad Contamination Area	Project 56 No. 2	Plutonium Valley
11-23-03	Radioactively Contaminated Area C	Rad Contamination Area	Project 56 No. 3	Plutonium Valley
11-23-04	Radioactively Contaminated Area D	Rad Contamination Area	Project 56	Plutonium Valley

CAU Number: **411 Double Tracks Plutonium Dispersion (Nellis)**

Owner: NNSA / Soils - ER

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	12/16/2013	N/A	N/A	N/A	
Closure Report to State	4/27/2015	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
NAFR-23-01	Pu Contaminated Soil	Rad Contamination Area	Double Tracks	White Patch Draw

CAU Number: **412 Clean Slate I Plutonium Dispersion (TTR)**

Owner: NNSA / Soils - ER

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	9/30/1996	5/28/1996	1/16/1997	1/16/1997	CAIP Document contains CAUs 412, 413, 414
CADD to State	7/31/1997	2/6/1997	4/21/1997	4/21/1997	
CAP to State	9/2/1997	4/7/1997	4/30/1997	4/30/1997	
SAFER Plan to State	12/16/2013	N/A	N/A	N/A	
Closure Report to State	6/29/2015	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
TA-23-01CS	Pu Contaminated Soil	Rad Contamination Area	Clean Slates I	Roller Coaster Knob

CAU Number: **413 Clean Slate II Plutonium Dispersion (TTR)**

Owner: NNSA / Soils - ER

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	9/30/1996	5/28/1996	1/16/1997	1/16/1997	CAIP Document contains CAUs 412, 413, 414
CADD to State	1/31/2005	1/4/2005	3/9/2005	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
TA-23-02CS	Pu Contaminated Soil	Rad Contamination Area	Clean Slates II	Breek Creek

CAU Number: **541 Small Boy**

Owner: NNSA / Soils - ER

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	7/7/2014	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
05-23-04	Atmospheric Tests (6) - BFa Site	Rad Contamination Area	Encore, Grable, Met, Priscilla, Sanford and 1 more	Frenchman Lake
05-45-03	Atmospheric Test Site - Small Boy	Rad Contamination Area	Small Boy	Frenchman Lake

CAU Number: **550 Smoky Contamination Area**

Owner: NNSA / Soils - ER

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	6/12/2012	5/11/2012	5/30/2012	5/30/2012	
CADD to State	3/20/2014	N/A	N/A	N/A	
CAP to State	10/22/2014	N/A	N/A	N/A	
Closure Report to State	9/1/2015	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
08-01-01	Storage Tank	Aboveground Storage Tank	T-2c	Oak Spring
08-22-05	Drum	Housekeeping Waste	T-8c	Oak Spring
08-22-07	Drum	Housekeeping Waste	T-8c	Oak Spring
08-22-08	Drums (3)	Housekeeping Waste	T-8B	Oak Spring
08-22-09	Drum	Housekeeping Waste	T-8b	Oak Spring
08-23-03	Atmospheric Test Site T-8B	Rad Contamination Area	Ceres	Oak Spring
08-23-04	Atmospheric Test Site T-2C	Rad Contamination Area	Smoky	Oak Spring
08-23-06	Atmospheric Test Site T-8A	Rad Contamination Area	Oberon	Oak Spring
08-23-07	Atmospheric Test Site T-8C	Rad Contamination Area	Titania	Oak Spring
08-24-03	Battery	Housekeeping Waste	T-8C	Oak Spring
08-24-04	Battery	Housekeeping Waste	T-8C	Oak Spring

CAU Number: **550 Smoky Contamination Area**

Owner: NNSA / Soils - ER

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
08-24-07	Batteries (3)	Housekeeping Waste	T-2C	Oak Spring
08-24-08	Batteries (3)	Housekeeping Waste	T-8A	Oak Spring
08-26-01	Lead Bricks (200)	Housekeeping Waste	T-2c	Oak Spring
10-22-17	Buckets (3)	Housekeeping Waste	U-10b	Oak Spring
10-22-18	Gas Block/Drum	Housekeeping Waste	U-10b	Oak Spring
10-22-19	Drum; Stains	Housekeeping Waste	U-10n	Oak Spring
10-22-20	Drum	Housekeeping Waste	U-10n	Oak Spring
10-24-10	Battery	Housekeeping Waste	U-10n	Oak Spring

CAU Number: **567 Miscellaneous Soil Sites**

Owner: NNSA / Soils - ER

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	10/15/2013	7/31/2013	N/A	N/A	
CADD to State	12/31/2014	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
01-23-03	Atmospheric Test Site T-1	Rad Contamination Area	Apple-2, Easy, Galileo, Simon	Yucca Flat
03-23-25	Seaweed E Contamination Area	Rad Contamination Area	Seaweed E	Yucca Flat
05-23-07	A5b RMA	Rad Contamination Area		
20-23-08	Colby Mud Spill	Rad Contamination Area		
25-23-23	J-11 Soil RMA	Rad Contamination Area		

CAU Number: **568 Area 3 Plutonium Dispersion Sites**

Owner: NNSA / Soils - ER

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	3/21/2014	N/A	N/A	N/A	
CADD to State	8/18/2015	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-23-17	S-3I Contamination Area	Rad Contamination Area	Coulomb-C	Yucca Flat
03-23-19	T-3U Contamination Area	Rad Contamination Area	Chavez	Yucca Flat
03-23-20	Otero Contamination Area	Rad Contamination Area	Operation Hardtack II	Yucca Flat
03-23-22	Platypus Contamination Area	Rad Contamination Area	Platypus	Yucca Flat
03-23-23	San Juan Contamination Area	Rad Contamination Area	San Juan	Yucca Flat
03-23-26	Shrew/Wolverine Contamination Area	Rad Contamination Area	Shrew	Yucca Flat

FFACO
Appendix III - Corrective Action Investigations/Corrective Actions

CAU Number: **570 Area 9 Yucca Flat Atmospheric Test Sites**

Owner: NNSA / Soils - ER

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	9/21/2012	8/21/2012	9/11/2012	9/11/2012	
CADD to State	9/30/2013	N/A	N/A	N/A	
CAP to State	5/28/2014	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-23-07	Atmospheric Test Site - Tesla	Rad Contamination Area	Tesla	Yucca Flat
09-23-10	Atmospheric Test Site T-9	Rad Contamination Area	Sugar	Oak Spring
09-23-11	Atmospheric Test Site S-9G	Rad Contamination Area	Ganymede	Oak Spring
09-23-14	Atmospheric Test Site - Rushmore	Rad Contamination Area	Rushmore	Oak Spring
09-23-15	Eagle Contamination Area	Rad Contamination Area	Eagle	Oak Spring
09-99-01	Atmospheric Test Site B-9A	Rad Contamination Area	Charleston, Hood, Lassen, Morgan, Owens, Wheeler and 2 more	Oak Spring

CAU Number: **571 Area 9 Yucca Flat Plutonium Dispersion Sites**

Owner: NNSA / Soils - ER

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	8/31/2013	7/3/2013	N/A	N/A	
CADD to State	10/30/2014	N/A	N/A	N/A	
CAP to State	4/8/2015	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
09-23-03	Atmospheric Test Site S-9F	Rad Contamination Area	Juno	Yucca Flat
09-23-04	Atmospheric Test Site T9-C	Rad Contamination Area	Post	Yucca Flat
09-23-12	Atmospheric Test Site S-9E	Rad Contamination Area	Vesta	Yucca Flat
09-23-13	Atmospheric Test Site T-9D	Rad Contamination Area	Mazama	Oak Spring
09-45-01	Windrows Crater	Craters	Windrows Crater	Yucca Flat

CAU Number: **573 Alpha Contaminated Sites**

Owner: NNSA / Soils - ER

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	6/17/2014	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
05-23-02	GMX Alpha Contaminated Area	Rad Contamination Area	Able	Frenchman Lake
05-45-01	Atmospheric Test Site - Hamilton	Rad Contamination Area	Hamilton	Frenchman Lake

CAU Number: **443 Central Nevada Test Area - Subsurface**

Owner: DOE / Offsites - OLM

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	3/31/1998	2/19/1998	6/23/1998	4/9/1999	
Submittal of Contaminant Boundary	6/28/2002	6/10/2002	10/18/2002	N/A	Offsites Interim Milestone - NDEP only issues a Notice of Completion for the milestone
CADD/CAP to State	11/8/2004	11/5/2004	12/9/2004	12/9/2004	
Final CADD/CAP Addendum	1/11/2008	1/9/2008	1/17/2008	1/17/2008	
Begin Drilling MV-4 and MV-5	5/1/2009	4/23/2009	5/21/2009	N/A	
Draft Well Completion Report	12/2/2009	12/1/2009	12/2/2009	N/A	
Draft Hydrogeologic Testing Report	10/13/2010	10/13/2010	10/27/2010	N/A	
Draft 2011 Monitoring Report	3/15/2012	3/12/2012	5/25/2012	N/A	
Draft 2012 Monitoring Report	3/15/2013	3/14/2013	3/27/2013	N/A	
Draft 2013 Groundwater Monitoring Report	3/14/2014	N/A	N/A	N/A	

CAU Number: **443 Central Nevada Test Area - Subsurface**

Owner: DOE / Offsites - OLM

Draft 2014 Groundwater Monitoring Report	3/16/2015	N/A	N/A	N/A

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
58-30-01	Emplacement Well UC-3	Drillhole	UC-3	Moores Station SW
58-30-02	Emplacement Well UC-4	Drillhole	UC-4	Moores Station
58-57-001	UC-1 Cavity	Underground Test/Detonation Cavity	NE of Tonopah, NV	Moores Station

CAU Number: **447 Project Shoal Area - Subsurface**

Owner: DOE / Offsites - OLM

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CADD/CAP To State	N/A	3/20/2006	N/A	4/10/2006	
CAIP to State	11/30/1998	11/23/1998	12/24/1998	12/24/1998	
Draft Path Forward Document	7/20/2009	7/20/2009	7/23/2009	N/A	
Draft Surface Geophysics Survey Report	1/19/2011	1/13/2011	2/3/2011	N/A	
Draft 2011 Monitoring Report	1/16/2012	1/12/2012	5/23/2012	N/A	
Draft 2012 Monitoring Report	1/15/2013	1/9/2013	2/7/2013	N/A	
Draft 2013 Groundwater Monitoring Report	1/15/2014	N/A	N/A	N/A	
Draft CADD/CAP Addendum	2/17/2014	N/A	N/A	N/A	
Draft 2014 Groundwater Monitoring Report	1/16/2015	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
57-49-01	Emplacement Shaft	Shaft	W of CAS 57-06-01	Fourmile Canyon

CAU Number: **447 Project Shoal Area - Subsurface**

Owner: DOE / Offsites - OLM

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
57-57-001	Cavity	Underground Test/Detonation Cavity	SE of Fallon, NV	Fourmile Canyon

CAU Number: **97 Yucca Flat/Climax Mine**

Owner: NNSA / UGTA - ER

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	11/1/2000	10/5/2000	10/31/2000	1/16/2001	
Complete the Construction of Five Drilling Pad Locations in Yucca Flat	8/30/2002	6/4/2002	4/25/2003	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Initiate Drilling in Yucca Flat	10/18/2002	10/4/2002	4/25/2003	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Initiate Well Development, Testing, & Sampling Activities in Yucca Flat	7/31/2003	4/24/2003	5/9/2003	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Complete the Resurvey of Measuring Points in Yucca Flat to Improve Accuracy of Previous Measurements	9/30/2003	9/5/2003	9/17/2003	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Submit Draft Contaminant Boundary Phase I Modeling Approach/Strategy	4/30/2004	3/18/2003	4/16/2003	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Complete Well Development & Testing of New Wells	9/17/2004	9/13/2004	9/23/2004	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Complete EarthVision Base Model	3/30/2005	3/23/2005	3/24/2005	N/A	
Complete the Hydrology Phase I Analysis & Evaluation	9/30/2005	9/29/2005	9/30/2005	N/A	

***CAU Number:* 97 Yucca Flat/Climax Mine**

Owner: NNSA / UGTA - ER

Submit Hydrostratigraphic Model and Alternatives for the Groundwater Flow and Contaminant Transport Model	2/1/2006	1/24/2006	3/16/2006	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Submit Phase I Hydrology Documentation Package	7/1/2006	6/26/2006	6/27/2007	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Final Phase I Transport Parameters	7/2/2007	6/19/2007	7/31/2007	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Phase I Flow Model Status Presentation #1	1/15/2009	1/14/2009	1/20/2009	N/A	
Phase I Source Term Rev 0 to State	3/23/2009	3/4/2009	6/26/2009	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Phase I Flow Model Status Presentation #2	7/15/2009	7/15/2009	7/22/2009	N/A	
Phase I Flow Model Presentation #3	7/15/2010	7/13/2010	7/23/2010	N/A	
Phase I Transport Model Presentation #1	7/14/2011	7/13/2011	7/26/2011	N/A	
Phase I Flow and Transport Model Presentation #2	2/28/2013	2/27/2013	2/28/2013	N/A	
Phase I Flow and Transport Model Document Rev 0	2/28/2013	2/25/2013	N/A	N/A	

CAU Number: **97 Yucca Flat/Climax Mine**

Owner: NNSA / UGTA - ER

Complete Peer Review	9/30/2015	N/A	N/A	N/A
CADD/CAP Rev 0	6/29/2016	N/A	N/A	N/A

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
01-57-001	U-1a Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
01-57-002	U-1c Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
01-57-003	U1d Cavity (2)	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-001	U-2a Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-002	U-2aa Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-003	U-2ab Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-004	U-2ad Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-005	U-2af Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-006	U-2ag Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-007	U-2ah Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-008	U-2ai Cavities (2)	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-009	U-2ak Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-010	U-2aL Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-011	U-2am Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-013	U-2an Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-014	U-2ao Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring

CAU Number: **97 Yucca Flat/Climax Mine**

Owner: NNSA / UGTA - ER

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-57-015	U-2ap Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-016	U-2ar Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-017	U-2as Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-018	U-2at Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-019	U-2au Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-020	U-2av Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-021	U-2aw Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-022	U-2ax Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-023	U-2ay-1 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-024	U-2ay-2 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-025	U-2ay-3 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-026	U-2az-1 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-027	U-2az-2 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-028	U-2az-3 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-029	U-2b Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-030	U-2bc Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-031	U-2bd Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-032	U-2be Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-033	U-2bf Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-034	U-2bg Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring

CAU Number: **97 Yucca Flat/Climax Mine**

Owner: NNSA / UGTA - ER

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-57-035	U-2bh Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-036	U-2bi Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-037	U-2bj Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-038	U-2bL Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-039	U-2bm Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-040	U-2bn Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-041	U2bo1 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-042	U-2bp-1 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-043	U-2bp-2 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-044	U-2bq-1 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-045	U-2bq-2 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-046	U-2br Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-047	U-2bs Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-048	U-2bu Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-049	U-2bv Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-050	U-2bw Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-051	U-2bx Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-052	U-2by Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-053	U-2bz Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-054	U-2c Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring

CAU Number: **97 Yucca Flat/Climax Mine**

Owner: NNSA / UGTA - ER

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-57-055	U-2ca Cavity	Underground Test/Detonation Cavity	Yucca Flat	Rainier Mesa
02-57-056	U-2cc Cavity	Underground Test/Detonation Cavity	Yucca Flat	Rainier Mesa
02-57-057	U-2cd Cavity	Underground Test/Detonation Cavity	Yucca Flat	Rainier Mesa
02-57-058	U-2ce Cavity	Underground Test/Detonation Cavity	Yucca Flat	Rainier Mesa
02-57-059	U-2cg Cavity	Underground Test/Detonation Cavity	Yucca Flat	Rainier Mesa
02-57-060	U-2ch Cavity	Underground Test/Detonation Cavity	Yucca Flat	Rainier Mesa
02-57-061	U-2ci Cavity	Underground Test/Detonation Cavity	Yucca Flat	Rainier Mesa
02-57-062	U-2cj Cavity	Underground Test/Detonation Cavity	Yucca Flat	Rainier Mesa
02-57-063	U-2ck Cavity	Underground Test/Detonation Cavity	Yucca Flat	Rainier Mesa
02-57-064	U-2cm Cavity	Underground Test/Detonation Cavity	Yucca Flat	Tippipah Spring
02-57-065	U-2cn Cavity	Underground Test/Detonation Cavity	Yucca Flat	Tippipah Spring
02-57-066	U-2co Cavity	Underground Test/Detonation Cavity	Yucca Flat	Tippipah Spring
02-57-067	U-2cp Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-068	U-2cq Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-069	U-2cr Cavity	Underground Test/Detonation Cavity	Yucca Flat	Rainier Mesa
02-57-070	U-2cs Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-072	U-2cu Cavities (2)	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-073	U-2db Cavities (3)	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-074	U-2dc-1 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-075	U-2dc-2 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat

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Owner: NNSA / UGTA - ER

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-57-076	U-2dc-3 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-077	U-2dc-4 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-078	U-2dc-5 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-079	U-2dc-6 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-080	U-2dd-2 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-081	U-2dd-3 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-082	U-2de Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-083	U-2df Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-084	U-2dg Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-085	U-2dh-2 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-086	U-2dh-3 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-087	U-2di Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-088	U-2dj Cavities (3)	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-089	U-2dk Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-090	U-2dL Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-091	U-2dm Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-092	U-2dn Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-093	U-2do Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-094	U-2dp Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-095	U-2dq Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat

CAU Number: **97 Yucca Flat/Climax Mine**

Owner: NNSA / UGTA - ER

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-57-096	U-2dr Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-097	U-2ds Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-098	U-2dt Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-099	U-2du Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-100	U-2dv Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-101	U-2dw Cavities (2)	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-102	U-2dy Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-103	U-2dz Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-104	U-2e Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-105	U-2ea Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-106	U-2eb Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-107	U-2ef Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-108	U-2eg Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-109	U-2eh Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-110	U-2ei Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-111	U-2ek Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-112	U-2eL Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-113	U-2em Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-114	U-2en Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-115	U-2eo Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring

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Owner: NNSA / UGTA - ER

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-57-116	U-2ep Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-117	U-2eq Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-118	U-2er Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-119	U-2es Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-120	U-2et Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-121	U-2eu Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-122	U-2ev Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-123	U-2ew Cavities (2)	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-124	U-2ex Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-125	U-2ey Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-126	U-2ey Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-127	U-2f Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-128	U-2fa Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-129	U-2fb Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-130	U-2fc Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-131	U-2fd Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-132	U-2fe Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-133	U-2ff Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-134	U-2g Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-135	U-2ga-S Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring

CAU Number: **97 Yucca Flat/Climax Mine**

Owner: NNSA / UGTA - ER

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-57-136	U-2gb Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-137	U-2ge Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-138	U-2gf Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-139	U-2gg Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-140	U-2gh Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-141	U-2h Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-142	U-2j Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-143	U-2L Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-144	U-2m Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-145	U-2n Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-146	U-2p Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-147	U-2q Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-148	U-2r Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-149	U-2t Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-150	U-2u Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-151	U-2v Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-152	U-2x Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
02-57-153	U-2y Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
02-57-154	U2bo2 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
03-57-001	U-3aa Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat

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Owner: NNSA / UGTA - ER

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-57-002	U-3ab Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-003	U-3ac Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-004	U-3ad Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-005	U-3ae Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-006	U-3af Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-007	U-3ag Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-008	U-3ah Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-009	U-3ai Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-010	U-3aj-S Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-011	U-3ak Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-012	U-3aL Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-013	U-3am-S Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-014	U-3an Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-015	U-3ao Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-016	U-3ap Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-017	U-3aq Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-018	U-3ar Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-019	U-3as Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-020	U-3at Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-021	U-3au-S Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat

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CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-57-022	U-3av Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-023	U-3aw Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-024	U-3ax Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-025	U-3ay Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-026	U-3az Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-027	U-3ba Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-028	U-3bb Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-029	U-3bc Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-030	U-3bd Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-031	U-3be Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-032	U-3bf Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-033	U-3bg Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-034	U-3bh Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-035	U-3bj Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-036	U-3bk Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-037	U-3bL Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-038	U-3bm Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-039	U-3bn Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-040	U-3bo Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-041	U-3bp Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat

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CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-57-042	U-3bq Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-043	U-3br Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-044	U-3bs Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-045	U-3bt Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-046	U-3bu Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-047	U-3bv Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-048	U-3bw Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-049	U-3bx Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-050	U-3by Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-051	U-3bz Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-052	U-3cb Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-053	U-3cd Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-054	U-3cf Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-055	U-3cg Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-056	U-3ch Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-057	U-3cj Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-058	U-3cn Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-059	U-3co Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-060	U-3cp Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-061	U-3cr Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat

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CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-57-062	U-3ct Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-063	U-3cu Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-064	U-3cv Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-065	U-3cx Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-066	U-3cy Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-067	U-3cz Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-068	U-3d Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-069	U-3da-S Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-070	U-3db Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-071	U-3dd Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-072	U-3dd-1 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-073	U-3dd-4 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-074	U-3de Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-075	U-3df Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-076	U-3dg Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-077	U-3dh Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-078	U-3di Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-079	U-3dj Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-080	U-3dk Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-081	U-3dL Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat

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CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-57-082	U-3dm Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-083	U-3dn Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-084	U-3do Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-085	U-3dp Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-086	U-3dr Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-087	U-3ds Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-088	U-3dt Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-089	U-3du Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
03-57-090	U-3dw Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-091	U-3dx Cavity	Underground Test/Detonation Cavity	Yucca Flat	Paiute Ridge
03-57-092	U-3dy Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-093	U-3dz Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-094	U-3e Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-095	U-3eb Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-096	U-3ec Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-097	U-3ed Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-098	U-3ee Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-099	U-3hp Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-100	U-3ef Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-102	U-3eh Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat

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CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-57-103	U-3ei Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-104	U-3ej Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-105	U-3ek Cavity	Underground Test/Detonation Cavity	Yucca Flat	Paiute Ridge
03-57-106	U-3eL Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-107	U-3em Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-108	U-3en Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-109	U-3eo Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-110	U-3ep Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-111	U-3eq Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-112	U-3er Cavity	Underground Test/Detonation Cavity	Yucca Flat	Paiute Ridge
03-57-113	U-3es Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-114	U-3et Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-115	U-3eu Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-116	U-3ev-2s Cavity	Underground Test/Detonation Cavity	Yucca Flat	Paiute Ridge
03-57-117	U-3ew Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-118	U-3ex Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-119	U-3ey Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-120	U-3ez Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-121	U-3fa Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-122	U-3fb Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat

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CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-57-123	U-3fc Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-124	U-3fd Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-125	U-3fe Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-126	U-3ff Cavity	Underground Test/Detonation Cavity	Yucca Flat	Paiute Ridge
03-57-127	U-3fh Cavity	Underground Test/Detonation Cavity	Yucca Flat	Carrara Canyon
03-57-128	U-3fj Cavity	Underground Test/Detonation Cavity	Yucca Flat	Carrara Canyon
03-57-129	U-3fk Cavity	Underground Test/Detonation Cavity	Yucca Flat	Paiute Ridge
03-57-130	U-3fm Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-131	U-3fn Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-132	U-3fq Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-133	U-3fr Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-134	U-3fs Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-135	U-3fu Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-136	U-3fv Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-137	U-3fw Cavity	Underground Test/Detonation Cavity	Yucca Flat	Paiute Ridge
03-57-138	U-3fx Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-139	U-3fy Cavity	Underground Test/Detonation Cavity	Yucca Flat	Paiute Ridge
03-57-140	U-3fz Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-141	U-3ga Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-142	U-3gb Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat

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CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-57-143	U-3gc Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-144	U-3gd Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-145	U-3ge Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-146	U-3gf Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-147	U-3gg Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-148	U-3gh Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-149	U-3gi Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-150	U-3gj Cavity	Underground Test/Detonation Cavity	Yucca Flat	Paiute Ridge
03-57-151	U-3gk Cavity	Underground Test/Detonation Cavity	Yucca Flat	Paiute Ridge
03-57-152	U-3gL Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-153	U-3gm Cavity	Underground Test/Detonation Cavity	Yucca Flat	Plutonium Valley
03-57-154	U-3gn Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-155	U-3go Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-156	U-3gq Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-157	U-3gr Cavity	Underground Test/Detonation Cavity	Yucca Flat	Paiute Ridge
03-57-158	U-3gs Cavity	Underground Test/Detonation Cavity	Yucca Flat	Paiute Ridge
03-57-159	U-3gt Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-160	U-3gu Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-161	U-3gv Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-162	U-3gx Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat

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CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-57-163	U-3gz Cavity	Underground Test/Detonation Cavity	Yucca Flat	Paiute Ridge
03-57-164	U-3ha Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-165	U-3hb Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-166	U-3hc Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-167	U-3hd Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-168	U-3he Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-169	U-3hf Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-170	U-3hg Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-171	U-3hh Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-172	U-3hi-A Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-173	U-3hi-B Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-174	U-3hj Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-175	U-3hk-a Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-176	U-3hk-b Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-177	U-3hk-d Cavity	Underground Test/Detonation Cavity	Yucca Flat	Paiute Ridge
03-57-178	U-3hk-c Cavity	Underground Test/Detonation Cavity	Yucca Flat	Paiute Ridge
03-57-179	U-3hk-e Cavity	Underground Test/Detonation Cavity	Yucca Flat	Paiute Ridge
03-57-180	U-3hk-f Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-181	U-3hL Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-182	U-3ho Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat

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CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-57-183	U-3hm Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-184	U-3hn Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-185	U-3hq Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-186	U-3hr Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-187	U-3hs Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-188	U-3ht Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-189	U-3hu Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-190	U-3hv Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-191	U-3hx Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-192	U-3hy Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-193	U-3hz Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-194	U-3j Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-195	U-3ja Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-196	U-3jb Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-197	U-3jc Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-198	U-3jd Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-199	U-3je Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-200	U-3jf Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-201	U-3jg Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-202	U-3jh Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Lake

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CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-57-203	U-3ji Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Lake
03-57-204	U-3jj Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Lake
03-57-205	U-3jk Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Lake
03-57-206	U-3jL Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-207	U-3jm Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-208	U-3jn Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-209	U-3jp Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-210	U-3jq Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-211	U-3jr Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-212	U-3js Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-213	U-3jt Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-214	U-3ju Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-215	U-3jv Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-216	U-3jw Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-217	U-3jx Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-218	U-3jy Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-219	U-3k Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-220	U-3kb Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-221	U-3kc Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-222	U-3kd Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat

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CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-57-223	U-3kf Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-224	U-3kg Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-225	U-3ki Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-226	U-3kj Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-227	U-3kk Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-228	U-3km Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-229	U-3kn Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-230	U-3kp Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-231	U-3kq Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-232	U-3kr Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-233	U-3ks Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-234	U-3kt Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-235	U-3ku Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-236	U-3kv Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-237	U-3kw Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Lake
03-57-238	U-3kx Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-239	U-3ky Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-240	U-3kz Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-241	U-3La Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-242	U-3Lb Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat

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CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-57-243	U-3Lc Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Lake
03-57-244	U-3Ld Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-245	U-3Lf Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-246	U-3Lg Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-247	U-3Lh Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-248	U-3Li Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-249	U-3Lj Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-250	U-3Lk Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Lake
03-57-251	U-3LL Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-252	U-3Lm Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-253	U-3Lo Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-254	U3Lp Cavity (2)	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-255	U-3Lr Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-256	U-3Ls Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-257	U-3Lt Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-258	U-3Lu Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Lake
03-57-259	U-3Lv Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-260	U-3Lw Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-261	U-3Lz Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-262	U-3m Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat

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CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-57-263	U-3mc Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-264	U-3me Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-265	U-3mf Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-266	U-3mg Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Lake
03-57-267	U-3mh Cavity	Underground Test/Detonation Cavity	Yucca Flat	Paiute Ridge
03-57-268	U-3mk Cavity	Underground Test/Detonation Cavity	Yucca Flat	Paiute Ridge
03-57-269	U-3mL Cavity	Underground Test/Detonation Cavity	Yucca Flat	Paiute Ridge
03-57-270	U-3mn Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-271	U-3mt Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-272	U-3n Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-273	U-3p Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-274	U-3q Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
03-57-275	U-3r Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-001	U-4a Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-002	U-4aa Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-003	U-4ab Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-004	U-4ac Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-005	U-4af Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-006	U-4ah Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-007	U-4ai Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat

CAU Number: **97 Yucca Flat/Climax Mine**

Owner: NNSA / UGTA - ER

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
04-57-008	U-4aj Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-009	U-4ak Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-010	U-4aL Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-011	U-4am Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-012	U-4an Cavities (3)	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-013	U-4ar Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-014	U-4as Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-015	U-4at Cavities (3)	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-016	U-4au Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-017	U-4av Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-018	U-4b Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-019	U-4c Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-020	U-4d Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-021	U-4e Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-022	U-4f Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-023	U-4g Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-024	U-4h Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-025	U-4i Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-026	U-4j Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-027	U-4L Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat

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Owner: NNSA / UGTA - ER

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
04-57-028	U-4n Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-029	U-4o Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-030	U-4p Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-031	U-4q Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-032	U-4r Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-033	U-4s Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-034	U-4t Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
04-57-035	U-4u Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
06-57-001	U-6a Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Lake
06-57-002	U-6d Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Lake
06-57-003	U-6e Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Lake
06-57-004	U-6g Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Lake
06-57-005	U-6h Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Lake
06-57-006	U-6i Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Lake
07-57-001	U-7a Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-002	U-7aa Cavity	Underground Test/Detonation Cavity	Yucca Flat	Paiute Ridge
07-57-003	U-7ab Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-004	U-7ac Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-005	U-7ad Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-006	U-7ae Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat

CAU Number: **97 Yucca Flat/Climax Mine**

Owner: NNSA / UGTA - ER

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
07-57-007	U-7af Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-008	U-7ag Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-009	U-7ah Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-010	U-7ai Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-011	U-7aj-S Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-012	U-7ak Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-013	U-7aL Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-014	U-7am Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-015	U-7an Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-016	U-7ao Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-017	U-7ap Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-018	U-7aq Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-019	U-7at Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-020	U-7au Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-021	U-7av Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-022	U-7ax Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-023	U-7ay Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-024	U-7b Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-025	U-7ba Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-026	U-7bd Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat

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CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
07-57-027	U-7be Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-028	U-7bg Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-029	U-7bh Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-030	U-7bi Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-031	U-7bk Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-032	U-7bL Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-033	U-7bm Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-034	U-7bo Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-035	U-7bp Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-036	U-7br Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-037	U-7bs Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-038	U-7bu Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-039	U-7bv Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-040	U-7by Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-041	U-7ca Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-042	U-7cb Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-043	U-7e Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-044	U-7f Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-045	U-7g Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-046	U-7h Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat

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CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
07-57-047	U-7j Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-048	U-7k Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-049	U-7i Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-050	U-7m Cavity	Underground Test/Detonation Cavity	Yucca Flat	Paiute Ridge
07-57-051	U-7n Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-052	U-7o Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-053	U-7p Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-054	U-7r Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-055	U-7s Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-056	U-7t Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-057	U-7u Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-058	U-7v Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-059	U-7w Cavity	Underground Test/Detonation Cavity	Yucca Flat	Paiute Ridge
07-57-060	U-7x Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-061	U-7y Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
07-57-062	U-7z Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
08-57-001	U-8a Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
08-57-002	U-8b Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
08-57-003	U-8c Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
08-57-004	U8e Cavity (2)	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring

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CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
08-57-005	U-8j Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
08-57-006	U-8k Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
08-57-007	U-8L Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
08-57-008	U-8m Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
08-57-009	U8n Cavity (2)	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
08-57-010	U-8d Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-001	U-9 ITS T-28 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-002	U-9 ITS U-24 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-003	U9itsv26 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-004	U9iv24 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-005	U9iv27 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-006	U-9 ITS W-21 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-007	U-9 ITS X-20 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-008	U-9 ITS X-23 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-009	U-9 ITS X-24 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-010	U-9 ITS X-27 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-011	U-9 ITS X-28 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-012	U-9 ITS X-29 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-013	U9iy27 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-014	U-9 ITS Y-30 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring

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CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
09-57-015	U-9 ITS Z-21 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-016	U-9 ITS Z-24 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-017	U9iz25 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-018	U-9 ITS Z-26 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-019	U-9 ITS Z-27 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-020	U-9 ITS-XY-31 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-021	U9itsw22 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-022	U9itsw24.5 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-023	U-9a Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-024	U-9aa Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-025	U-9ab Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-026	U-9ac Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-027	U-9ad Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-028	U-9ae Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-029	U-9af Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-030	U-9ah Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-031	U-9ai Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-032	U-9aj Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-033	U-9ak #1 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-034	U-9ak Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat

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CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
09-57-035	U-9aL Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-036	U-9ao Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-037	U-9ap Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-038	U-9aq Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-039	U-9ar Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-040	U-9at Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-041	U-9au Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-042	U-9av Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-043	U-9aw Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-044	U-9ax Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-045	U-9ay Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-046	U-9az Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-048	U-9b Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-049	U-9ba Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-050	U-9bb Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-051	U-9bc Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-052	U-9bd Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-053	U-9be Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-054	U-9bf Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-055	U-9bg Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat

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CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
09-57-056	U-9bh Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-057	U-9bi-1 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-058	U-9bi-2 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-059	U-9bj Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-060	U-9bk Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-061	U-9bm Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-062	U-9bn Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-063	U-9bo Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-064	U-9bp Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-065	U-9br Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-066	U-9bs Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-067	U-9bt Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-068	U-9bu Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-069	U-9bv Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-070	U-9bx Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-071	U-9by Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-072	U-9bz Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-073	U-9c Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-074	U-9cb Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-075	U-9cc Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat

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CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
09-57-076	U-9ce Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-077	U-9cf Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-078	U-9cg Cavities (2)	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-079	U-9ch Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-080	U-9ci Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-081	U-9cj Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-082	U-9ck Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-083	U-9cL Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-084	U-9cm Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-085	U-9cn Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-086	U-9cp Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-087	U-9cq Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-088	U-9cr Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-089	U-9cs Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-090	U-9cv Cavities (3)	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-091	U-9cw Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-092	U-9d Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-093	U-9e Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-094	U-9f Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-095	U-9g Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring

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CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
09-57-096	U-9h Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-098	U-9i Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-099	U9itss25 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-100	U9itsyz26 Cavities (2)	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-101	U-9j Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-102	U-9k Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-103	U-9L Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-104	U-9m Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-105	U-9n Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-106	U-9p Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-107	U-9q Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-108	U-9r Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-109	U-9u Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-110	U-9v Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-111	U-9w Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-112	U-9w-1 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-113	U-9x Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-114	U-9y Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
09-57-115	U-9z Cavity	Underground Test/Detonation Cavity	Yucca Flat	Yucca Flat
09-57-116	U-9 ITS AA-25 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring

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CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
10-57-001	U-10a Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-002	U-10aa Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-003	U-10ab Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-004	U-10ad Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-005	U-10af Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-006	U-10ag Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-007	U-10ah Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-008	U-10ai Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-009	U-10aj-A Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-010	U-10aj-B Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-011	U-10aj-C Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-012	U-10aj-D Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-013	U-10aj-F Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-014	U-10ak Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-015	U-10am-1 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-016	U-10am-2 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-017	U-10am-3 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-018	U-10am-4 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-019	U-10an Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-020	U-10ap-1 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring

CAU Number: **97 Yucca Flat/Climax Mine**

Owner: NNSA / UGTA - ER

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
10-57-021	U-10ap-3 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-022	U-10aq Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-023	U-10ar Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-024	U-10as Cavities (3)	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-025	U-10at Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-026	U-10av Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-027	U-10aw Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-028	U-10ax Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-029	U-10ay Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-030	U-10b Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-031	U10ba Cavity (2)	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-032	U10bb Cavity (2)	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-033	U-10bc Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-034	U-10bd Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-035	U-10be Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-036	U-10bf Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-037	U-10bg Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-038	U-10bh Cavities (3)	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-039	U-10c Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-040	U-10ca Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring

CAU Number: **97 Yucca Flat/Climax Mine**

Owner: NNSA / UGTA - ER

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
10-57-041	U-10cb Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-042	U-10cc Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-043	U-10ds Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-044	U-10ds-1 Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-045	U-10e Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-046	U-10f Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-047	U-10g Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-048	U-10i Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-049	U-10k Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-050	U-10m Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-051	U-10n Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-052	U-10p Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-053	U-10q Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-054	U-10r Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-055	U-10s Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-056	U-10t Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-057	U-10u Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-058	U-10w Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-059	U-10x Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
10-57-060	U-10y Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring

CAU Number: **97 Yucca Flat/Climax Mine**

Owner: NNSA / UGTA - ER

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
10-57-061	U-10z Cavity	Underground Test/Detonation Cavity	Yucca Flat	Oak Spring
15-57-001	U-15a Cavity	Underground Test/Detonation Cavity	Climax Mine	Oak Spring
15-57-002	U-15.01 Cavity	Underground Test/Detonation Cavity	Climax Mine	Oak Spring
15-57-003	U-15e Cavity	Underground Test/Detonation Cavity	Climax Mine	Oak Spring

CAU Number: **98 Frenchman Flat**

Owner: NNSA / UGTA - ER

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	7/31/1997	7/28/1997	8/18/1997	9/21/1999	
Initiate Drilling at ER-5-4 #2	8/30/2002	7/15/2002	4/25/2003	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Complete Well Development and Aquifer Testing Activities in Frenchman Flat	9/30/2003	9/18/2003	9/25/2003	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Complete Transport Parameter Phase II Analysis and Evaluation	9/3/2004	8/19/2004	8/31/2004	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Submit Draft Hydrology Phase II Report	9/30/2004	9/2/2004	10/18/2004	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Submit Draft Transport Parameters Phase II Report	2/4/2005	11/16/2004	2/3/2005	N/A	
Complete Frenchman Flat Phase II Flow Model	9/30/2005	9/29/2005	9/30/2005	N/A	
Initiate Phase II Transport Modeling	3/15/2006	3/10/2006	3/14/2006	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Submit Phase II Flow Model Report	5/31/2006	5/3/2006	5/8/2006	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone

CAU Number: **98 Frenchman Flat**

Owner: NNSA / UGTA - ER

Phase II Transport Model (Documentation Package) to State	9/30/2009	9/30/2009	11/24/2009	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Document for External Peer Review Presentation	3/25/2010	3/5/2010	3/10/2010	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Model Document for External Peer Review	4/9/2010	2/23/2010	3/26/2010	N/A	
Submit Model Evaluation Plan to State	9/30/2010	9/30/2010	10/27/2010	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
CADD/CAP Rev 0 to State	6/2/2011	6/2/2011	6/8/2011	8/17/2011	
Model Evaluation Well Drilling Presentation #1	9/26/2012	9/25/2012	10/2/2012	N/A	
Model Evaluation Well Data Evaluation Presentation #1	1/9/2014	N/A	N/A	N/A	
Model Evaluation Report Final Rev 0	8/8/2014	N/A	N/A	N/A	
Closure Report to State	5/19/2015	N/A	N/A	N/A	
Post Closure Drilling Presentation #1	9/30/2015	N/A	N/A	N/A	

CAS Number	***CAS Description***	***Functional Category***	***Test / Location***	***Map Name***

CAU Number: **98 Frenchman Flat**

Owner: NNSA / UGTA - ER

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
05-57-001	U-5a Cavity	Underground Test/Detonation Cavity	Frenchman Flat - Central Test Area	Frenchman Lake
05-57-002	U-5b Cavity	Underground Test/Detonation Cavity	Frenchman Flat - Central Test Area	Frenchman Lake
05-57-003	U-5e Cavity	Underground Test/Detonation Cavity	Frenchman Flat - Central Test Area	Frenchman Lake
05-57-004	U-5i Cavity	Underground Test/Detonation Cavity	Frenchman Flat - Central Test Area	Plutonium Valley
05-57-005	U-5k Cavity	Underground Test/Detonation Cavity	Frenchman Flat - Central Test Area	Frenchman Lake
11-57-001	U-11b Cavity	Underground Test/Detonation Cavity	Frenchman Flat - Northern Test Area	Plutonium Valley
11-57-002	U-11c Cavity	Underground Test/Detonation Cavity	Frenchman Flat - Northern Test Area	Plutonium Valley
11-57-003	U-11e Cavity	Underground Test/Detonation Cavity	Frenchman Flat - Northern Test Area	Plutonium Valley
11-57-004	U-11f Cavity	Underground Test/Detonation Cavity	Frenchman Flat - Northern Test Area	Plutonium Valley
11-57-005	U-11g Cavity	Underground Test/Detonation Cavity	Frenchman Flat - Northern Test Area	Plutonium Valley

CAU Number: **99 Rainier Mesa/Shoshone Mountain**

Owner: NNSA / UGTA - ER

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Initiate Value of Information Analysis (VOIA)	12/31/2003	12/3/2003	12/16/2003	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
CAIP to State	12/31/2004	12/22/2004	2/2/2005	2/2/2005	
Complete Drilling Phase I	9/29/2005	9/29/2005	9/30/2005	N/A	
Complete Well Development & Testing	4/1/2006	3/22/2006	4/10/2006	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Initiate Phase I Hydrostratigraphic Model	6/1/2006	6/1/2006	6/5/2006	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Draft Phase I Hydrostratigraphic Model	12/1/2006	11/28/2006	11/29/2006	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Final Phase I Hydrostratigraphic Model	3/30/2007	3/22/2007	6/18/2007	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Phase I Hydrology Documentation Package to State	3/5/2008	3/5/2008	4/8/2008	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone

***CAU Number:* 99 Rainier Mesa/Shoshone Mountain**

Owner: NNSA / UGTA - ER

Phase I Transport Parameters Rev 0 to State	3/5/2008	3/5/2008	4/8/2008	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Phase I Model Approach Strategy to State	4/4/2008	4/3/2008	7/30/2008	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Complete Well Development, Testing, & Sampling for ER-16-1	4/16/2008	4/10/2008	4/23/2008	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Phase I Source Term Status Presentation #1	1/21/2009	1/21/2009	1/22/2009	N/A	
Phase I Source Term Presentation #2	12/9/2010	12/8/2010	12/8/2010	N/A	
Phase I Source Term Rev 0 to State	7/28/2011	7/28/2011	11/15/2011	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Phase I Flow and Transport Model Presentation #1	9/15/2011	9/15/2011	10/5/2011	N/A	
Phase I Flow and Transport Model Presentation #2	11/28/2012	11/28/2012	1/10/2013	N/A	
Technical Basis Agreement, Rev 0	12/28/2012	12/19/2012	1/18/2013	N/A	
Flow and Transport Model Document, Rev 0	11/13/2013	N/A	N/A	N/A	

CAU Number: **99 Rainier Mesa/Shoshone Mountain**

Owner: NNSA / UGTA - ER

Complete Peer Review	12/12/2014	N/A	N/A	N/A
Closure Report Rev 0 to State	8/11/2016	N/A	N/A	N/A

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-57-001	U-12b Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-002	U-12b.02 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-003	U-12b.04 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-004	U-12b.08 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-005	U-12b.09 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-006	U-12b.10 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-007	U12c.02 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-008	U-12c.03 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-009	U12d.01 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-010	U12c.01 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-011	U-12e.02 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-012	U-12e.03a Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-013	U-12e.05 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-014	U-12e.10 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-015	U-12e.11 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-016	U-12e.12 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa

CAU Number: **99 Rainier Mesa/Shoshone Mountain**

Owner: NNSA / UGTA - ER

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-57-017	U-12e.14 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-018	U-12e.18 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-019	U-12f.01 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-020	U12f.02 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-021	U-12g.01 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-022	U-12g.06 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-023	U-12g.07 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-024	U-12g.09 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-025	U-12g.10 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-026	U-12j.01 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-027	U-12k.01 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-028	U-12n.02 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-029	U-12n.04 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-030	U-12n.05 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-031	U-12n.06 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-032	U-12n.07 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-033	U-12n.08 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-034	U-12n.09 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-035	U-12e.20 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-036	U-12n.10 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa

CAU Number: **99 Rainier Mesa/Shoshone Mountain**

Owner: NNSA / UGTA - ER

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-57-037	U-12n.10a Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-038	U-12n.11 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-039	U-12n.12 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-040	U-12n.15 Cavities (2)	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-041	U-12n.17 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-042	U-12n.18 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-043	U-12n.19 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-044	U-12n.20 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-045	U-12n.21 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-046	U-12n.22 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-047	U-12n.23 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-048	U-12n.24 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-049	U-12p.02 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-050	U-12p.03 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-051	U-12p.04 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-052	U-12p.05 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-053	U-12q Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-054	U-12r Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-055	U-12t.01 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-056	U-12t.02 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa

CAU Number: **99 Rainier Mesa/Shoshone Mountain**

Owner: NNSA / UGTA - ER

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-57-057	U-12t.03 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-058	U-12t.04 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-060	U-12t.08 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
12-57-061	U-12t.09 Cavity	Underground Test/Detonation Cavity	Ranier Mesa	Rainier Mesa
16-57-001	U-16a Cavity	Underground Test/Detonation Cavity	Shoshone Mountain	Tippipah Spring
16-57-002	U-16a.02 Cavity	Underground Test/Detonation Cavity	Shoshone Mountain	Tippipah Spring
16-57-003	U-16a.03 Cavity	Underground Test/Detonation Cavity	Shoshone Mountain	Tippipah Spring
16-57-004	U-16a.04 Cavity	Underground Test/Detonation Cavity	Shoshone Mountain	Tippipah Spring
16-57-005	U-16a.05 Cavity	Underground Test/Detonation Cavity	Shoshone Mountain	Tippipah Spring
16-57-006	U-16a.06 Cavity	Underground Test/Detonation Cavity	Shoshone Mountain	Tippipah Spring

CAU Number: **101 Central Pahute Mesa**

Owner: NNSA / UGTA - ER

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	9/30/1998	9/29/1998	1/6/1999	12/20/1999	
Submit Description of the Proposed Scope of Work Related to Each Lab Study on Volcanic Glasses and Minerals Including Solubility, Measurement of Surface Areas, and Development of Sorption Coefficients	12/31/2001	12/21/2001	1/4/2002	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Submit Draft Phase I Transport Parameter Data Documentation Package to NDEP	9/30/2002	9/10/2002	4/25/2003	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Complete Laboratory Studies on Volcanic Glasses and Minerals Including Solubility, Measurement of Surface Areas, and Development of Sorption Coefficients	11/30/2002	10/30/2002	4/25/2003	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Submit Draft Phase I Hydrologic Data Documentation Package to NDEP	7/31/2003	4/3/2003	5/9/2003	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Complete the Calibration of the Flow Model	7/31/2004	7/20/2004	8/18/2004	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Submit Final Source Term Report	8/30/2004	8/19/2004	9/27/2004	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone

CAU Number: **101 Central Pahute Mesa**

Owner: NNSA / UGTA - ER

Submit Draft Contaminant Boundary Phase I Flow Model Report	7/31/2005	6/14/2005	8/12/2005	N/A	
Submit Final Phase I Flow Model Report	7/31/2006	6/7/2006	6/20/2007	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Phase I Transport Model Rev 0 to State	10/1/2008	9/29/2008	3/11/2009	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Phase II CAIP Rev 0 to State	12/3/2008	12/1/2008	4/3/2009	10/1/2009	
Begin Phase II Drilling Operations	5/28/2009	5/28/2009	6/25/2009	N/A	
Phase II Drilling Operations Presentation #1	10/27/2009	10/27/2009	10/28/2009	N/A	
Phase II Drilling Operations Presentation #2	12/16/2010	12/16/2010	12/27/2010	N/A	
Phase II Drilling Operations Presentation #3	1/31/2013	1/29/2013	2/14/2013	N/A	
Final Well Completion Report to State	3/13/2013	3/18/2013	4/5/2013	N/A	
Well Development, Testing, Sampling and Well Observation Presentation #1	9/30/2013	N/A	N/A	N/A	

CAU Number: **101 Central Pahute Mesa**

Owner: NNSA / UGTA - ER

Pre Multi-Well Aquifer Test Well Testing Presentation #1	8/14/2014	N/A	N/A	N/A
Phase II Flow and Transport Model Presentation #1	9/30/2015	N/A	N/A	N/A
Closure Report Rev 0 to State	9/30/2030	N/A	N/A	N/A

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
19-57-001	U-19aa Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Ammonia Tanks
19-57-002	U-19ab Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Dead Horse Flat
19-57-003	U-19ac Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Dead Horse Flat
19-57-004	U-19ad Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Dead Horse Flat
19-57-005	U-19ae Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Ammonia Tanks
19-57-006	U-19af Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Ammonia Tanks
19-57-007	U-19ai Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Dead Horse Flat
19-57-008	U-19aj Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Dead Horse Flat
19-57-009	U-19ak Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Dead Horse Flat
19-57-010	U-19an Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Dead Horse Flat
19-57-011	U-19aq Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Scrugham Peak
19-57-012	U-19ar Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Dead Horse Flat
19-57-013	U-19as Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Dead Horse Flat
19-57-014	U-19au Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Silent Butte

CAU Number: **101 Central Pahute Mesa**

Owner: NNSA / UGTA - ER

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
19-57-015	U-19ax Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Dead Horse Flat
19-57-016	U-19ay Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Dead Horse Flat
19-57-017	U-19az Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Ammonia Tanks
19-57-018	U-19b Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Dead Horse Flat
19-57-019	U-19ba Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Dead Horse Flat
19-57-020	U-19bg Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Dead Horse Flat
19-57-021	U-19c Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Dead Horse Flat
19-57-022	U-19d Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Dead Horse Flat
19-57-023	U-19e Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Dead Horse Flat
19-57-024	U-19f Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Ammonia Tanks
19-57-025	U-19g Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Dead Horse Flat
19-57-026	U-19i Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Dead Horse Flat
19-57-027	U-19L Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Dead Horse Flat
19-57-028	U-19n Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Silent Butte
19-57-029	U-19p Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Dead Horse Flat
19-57-030	U-19q Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Dead Horse Flat
19-57-031	U-19t Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Dead Horse Flat
19-57-032	U-19u Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Dead Horse Flat
19-57-033	U-19v Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Ammonia Tanks
19-57-034	U-19x Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Ammonia Tanks

CAU Number: **101 Central Pahute Mesa**

Owner: NNSA / UGTA - ER

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
19-57-035	U-19ys Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Dead Horse Flat
19-57-036	U-19zs Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Dead Horse Flat
20-57-002	U-20a Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Scrugham Peak
20-57-003	U-20aa Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Silent Butte
20-57-004	U-20ab Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Silent Butte
20-57-005	U-20ac Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Scrugham Peak
20-57-006	U-20ad Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Silent Butte
20-57-008	U-20af Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Silent Butte
20-57-010	U-20ah Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Silent Butte
20-57-011	U-20ai Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Silent Butte
20-57-012	U-20aj Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Silent Butte
20-57-014	U-20aL Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Silent Butte
20-57-015	U-20am Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Silent Butte
20-57-016	U-20an Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Silent Butte
20-57-018	U-20ap Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Silent Butte
20-57-020	U-20ar Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Silent Butte
20-57-023	U-20av Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Scrugham Peak
20-57-024	U-20aw Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Silent Butte
20-57-025	U-20ay Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Silent Butte
20-57-026	U-20az Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Scrugham Peak

CAU Number: **101 Central Pahute Mesa**

Owner: NNSA / UGTA - ER

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
20-57-027	U-20b Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Silent Butte
20-57-030	U-20bd Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Silent Butte
20-57-031	U-20be Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Scrugham Peak
20-57-032	U-20bf Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Scrugham Peak
20-57-035	U-20e Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Silent Butte
20-57-037	U-20g Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Silent Butte
20-57-038	U-20h Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Silent Butte
20-57-039	U-20i Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Silent Butte
20-57-041	U-20n Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Scrugham Peak
20-57-046	U-20z Cavity	Underground Test/Detonation Cavity	Central Pahute Mesa	Silent Butte

CAU Number: **102 Western Pahute Mesa**

Owner: NNSA / UGTA - ER

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	9/30/1998	9/29/1998	1/6/1999	12/20/1999	
Submit Description of the Proposed Scope of Work Related to Each Lab Study on Volcanic Glasses and Minerals Including Solubility, Measurement of Surface Areas, and Development of Sorption Coefficients	12/31/2001	12/21/2001	1/4/2002	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Submit Draft Phase I Transport Parameter Data Documentation Package to NDEP	9/30/2002	9/10/2002	4/25/2003	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Complete Laboratory Studies on Volcanic Glasses and Minerals Including Solubility, Measurement of Surface Areas, and Development of Sorption Coefficients	11/30/2002	10/30/2002	4/25/2003	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Submit Draft Phase I Hydrologic Data Documentation Package to NDEP	7/31/2003	4/3/2003	5/9/2003	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Complete the Calibration of the Flow Model	7/31/2004	7/20/2004	8/18/2004	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Submit Final Source Term Report	8/30/2004	8/19/2004	9/27/2004	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone

CAU Number: **102 Western Pahute Mesa**

Owner: NNSA / UGTA - ER

Submit Draft Contaminant Boundary Phase I Flow Model Report	7/31/2005	6/14/2005	8/12/2005	N/A	
Submit Final Phase I Flow Model Report	7/31/2006	6/7/2006	6/20/2007	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Phase I Transport Model Rev 0 to State	10/1/2008	9/29/2008	3/11/2009	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Phase II CAIP Rev 0 to State	12/3/2008	12/1/2008	4/3/2009	10/1/2009	
Begin Phase II Drilling Operations	5/28/2009	5/28/2009	6/25/2009	N/A	UGTA Interim Milestone - NDEP only issues a Notice of Completion for the milestone
Phase II Drilling Operations Presentation #1	10/27/2009	10/27/2009	10/28/2009	N/A	
Phase II Drilling Operations Presentation #2	12/16/2010	12/16/2010	12/27/2010	N/A	
Phase II Drilling Operations Presentation #3	1/31/2013	1/29/2013	2/14/2013	N/A	
Final Well Completion Report to State	3/13/2013	3/18/2013	4/5/2013	N/A	
Well Development, Testing, Sampling and Well Observation Presentation #1	9/30/2013	N/A	N/A	N/A	

CAU Number: **102 Western Pahute Mesa**

Owner: NNSA / UGTA - ER

Pre Multi-Well Aquifer Test Well Testing Presentation #1	8/14/2014	N/A	N/A	N/A
Phase II Flow and Transport Model Presentation #1	9/30/2015	N/A	N/A	N/A
Closure Report Rev 0 to State	9/30/2030	N/A	N/A	N/A

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
20-57-001	U-20a Cavity	Underground Test/Detonation Cavity	Western Pahute Mesa	Scrugham Peak
20-57-007	U-20ae Cavity	Underground Test/Detonation Cavity	Western Pahute Mesa	Silent Butte
20-57-009	U-20ag Cavity	Underground Test/Detonation Cavity	Western Pahute Mesa	Scrugham Peak
20-57-013	U-20ak Cavity	Underground Test/Detonation Cavity	Western Pahute Mesa	Scrugham Peak
20-57-017	U-20ao Cavity	Underground Test/Detonation Cavity	Western Pahute Mesa	Scrugham Peak
20-57-019	U-20aq Cavity	Underground Test/Detonation Cavity	Western Pahute Mesa	Trail Ridge
20-57-021	U-20as Cavity	Underground Test/Detonation Cavity	Western Pahute Mesa	Scrugham Peak
20-57-022	U-20at Cavity	Underground Test/Detonation Cavity	Western Pahute Mesa	Thirsty Canyon
20-57-028	U-20bb Cavity	Underground Test/Detonation Cavity	Western Pahute Mesa	Scrugham Peak
20-57-029	U-20bc Cavity	Underground Test/Detonation Cavity	Western Pahute Mesa	Silent Butte
20-57-033	U-20c Cavity	Underground Test/Detonation Cavity	Western Pahute Mesa	Scrugham Peak
20-57-034	U-20d Cavity	Underground Test/Detonation Cavity	Western Pahute Mesa	Scrugham Peak
20-57-036	U-20f Cavity	Underground Test/Detonation Cavity	Western Pahute Mesa	Silent Butte
20-57-040	U-20m Cavity	Underground Test/Detonation Cavity	Western Pahute Mesa	Trail Ridge

CAU Number: **102 Western Pahute Mesa**

Owner: NNSA / UGTA - ER

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
20-57-042	U-20p Cavity	Underground Test/Detonation Cavity	Western Pahute Mesa	Trail Ridge
20-57-043	U-20t Cavity	Underground Test/Detonation Cavity	Western Pahute Mesa	Scrugham Peak
20-57-044	U-20v Cavity	Underground Test/Detonation Cavity	Western Pahute Mesa	Trail Ridge
20-57-045	U-20y Cavity	Underground Test/Detonation Cavity	Western Pahute Mesa	Scrugham Peak

Appendix IV

Closed Corrective Action Units

Revision No.: 34

July 2013

Federal Facility Agreement
and Consent Order
(FFACO)

FFACO
Appendix IV - Closed Corrective Action Units

CAU Number: **34 Area 3 Contaminated Waste Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 5/15/2002

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	7/31/2001	3/29/2001	4/3/2001	4/3/2001	
CADD/CR to State	5/31/2002	4/25/2002	5/15/2002	5/15/2002	Submitted as CADD/CR. CR regulatory milestone not established prior to CADD/CR submittal.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-09-06	Mud Disposal Crater	Mud Pit	U-3ag at Mud Plant	Yucca Flat
03-09-07	Mud Pit	Mud Pit	Area 3 Mud Plant	Yucca Flat
03-44-01	Chromium Contamination Spill	Housekeeping Waste	Area 3 Mud Plant	Yucca Flat
03-47-02	Area 3 Mud Plant Pond	Other Ponds/Lagoons	Area 3 Mud Plant	Yucca Flat

FFACO
Appendix IV - Closed Corrective Action Units

CAU Number: **36 Areas 8, 10, 16, 18, and 26 Housekeeping Waste Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 5/30/2000

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	5/1/2000	4/26/2000	5/30/2000	5/30/2000	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
08-22-06	Drum	Housekeeping Waste	T-8b	Oak Spring
08-22-10	Buckets (3)	Housekeeping Waste	Area 2 Camp	Oak Spring
08-24-05	Batteries	Housekeeping Waste	T-8C	Oak Spring
08-24-09	Batteries (14)	Housekeeping Waste	T-8b	Oak Spring
08-24-10	Batteries (2)	Housekeeping Waste	U-2gd	Oak Spring
08-99-02	Gas Cylinders	Housekeeping Waste	U-8d	Oak Spring
10-24-08	Battery	Housekeeping Waste	U-10ap #3	Oak Spring
16-24-02	Batteries (2)	Housekeeping Waste	16-02/Midvalley Road	Tippipah Spring
18-22-22	Cans (3)	Housekeeping Waste	17 Camp	Ammonia Tanks
18-24-12	Battery	Housekeeping Waste	Area 17 Camp, Gas Station	Ammonia Tanks
18-24-13	Batteries	Housekeeping Waste	17 Camp Elec. Storage	Ammonia Tanks
26-99-03	Smoke Pots (4)	Housekeeping Waste	Building 3126	Skull Mountain

CAU Number: **144 Area 1 Camp Injection Well**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 1/9/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
NDEP Notice of Completion	1/9/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
01-20-01	Waste Disposal Hole	Injection Well	Area 1 Camp	Tippipah Spring

CAU Number: **322 Areas 1 & 3 Release Sites and Injection Wells**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 7/2/2006

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	7/21/2003	7/16/2003	7/23/2003	7/23/2003	
CADD to State	1/31/2005	12/1/2004	12/14/2004	12/14/2004	
CAP to State	10/31/2005	9/1/2005	9/14/2005	9/14/2005	
Closure Report to State	9/30/2006	6/26/2006	7/2/2006	7/2/2006	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
01-25-01	AST Release	Oil/Fuel Spills	Aggregate/Batch Plant	Tippipah Spring
03-20-05	Injection Wells	Injection Well	Blowout Prev. Shop/PS Pad	Yucca Flat
03-25-03	Mud Plant AST Diesel Release	Oil/Fuel Spills	Area 3 Mud Plant	Yucca Flat

CAU Number: **323 Area 2 Pull Test Facility Spill**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 7/24/1996

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
NDEP Notice of Completion	7/24/1996	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-25-01	Hydrocarbon Release Site	Oil/Fuel Spills	Pull Test Facility	Oak Spring
06-25-05	Waste Oil Release	Oil/Fuel Spills	Well 3 Yard	Yucca Lake

CAU Number: **324 Archived - Area 3 Mudplant Aboveground Storage Tank Release**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **325 Archived - Area 6 Tank Farm Aboveground Storage Tanks/Spills**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **326 Areas 6 and 27 Release Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 1/3/2003

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring has been removed.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	9/28/2001	9/12/2001	9/28/2001	9/28/2001	
Closure Report to State	12/31/2002	10/16/2002	1/3/2003	1/3/2003	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
06-25-01	CP-1 Heating Oil Release	Oil/Fuel Spills	CP-1	Yucca Lake
06-25-02	UST Release	Oil/Fuel Spills	DAF (Device Assembly Fac)	Yucca Lake
06-25-04	Petroleum Release Site	Oil/Fuel Spills	Area 6 Gasoline Station	Yucca Lake
27-25-01	Petroleum Release - Site Maintenance	Oil/Fuel Spills	Site Maintenance Yard	Cane Spring

CAU Number: **327 Archived - Area 12 Camp Underground Oil Releases**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **328 Archived - Area 18 Airstrip Fuel Release**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **329 Area 22 Desert Rock Airstrip Fuel Spill**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 1/25/2002

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is complete.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	12/31/1999	10/5/1999	1/25/2000	1/25/2000	
Closure Report to State	8/31/2000	8/14/2000	1/25/2002	9/1/2000	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
22-44-01	Fuel Spill	Oil/Fuel Spills	Airstrip	Point of Rocks

CAU Number: **331 Archived - Area 27 Site Maintenance Petroleum Release**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **332 Area 2 Photograph Development System (Photo Skid)**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 7/18/1997

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	12/2/1996	11/20/1996	2/18/1997	2/18/1997	
CADD/CR to State	7/31/1997	7/9/1997	7/18/1997	7/18/1997	Submitted as CADD/CR

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-42-03	Wastewater Pit (Photo Lab)	Leachfield	Area 2 Photo Lab/2-07 Rd.	Oak Spring

CAU Number: **333 U-3auS Disposal Site**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 6/27/2001

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-16-01	U-3auS Disposal Site	Construction Waste Landfill	U-3auS	Yucca Flat

CAU Number: **334 Archived - Area 3 Blowout Prevention Shop Injection Wells**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **335 Area 6 Injection Well and Drain Pit**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 8/12/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

Post-Closure Monitoring has been removed.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	4/2/2001	12/5/2000	12/19/2000	12/19/2000	
CADD to State	12/31/2001	11/9/2001	12/17/2001	12/17/2001	
CAP to State	10/31/2002	7/1/2002	7/18/2002	11/13/2002	
Closure Report to State	8/29/2003	8/5/2003	8/12/2003	8/12/2003	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
06-20-01	Drums; Oil Waste; Spill	Housekeeping Waste	Well 3 Yard, Bldg T-850	Yucca Lake
06-20-02	20-inch Cased Hole	Injection Well	Building 6-388	Yucca Lake
06-23-03	Drain Pit	Rad Contamination Area	Well 3 Yard	Yucca Lake

CAU Number: **337 Archived - Area 6 Well 3 Yard Drain Pit**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **338 Archived - Area 6 Yucca Lake Storage Yards**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **339 Area 12 Fleet Operations Steam Cleaning Effluent**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 12/18/1997

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

Post-Closure Monitoring has been removed.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CADD to State	1/31/1997	1/27/1997	N/A	N/A	
CAP to State	6/2/1997	5/30/1997	6/6/1997	6/6/1997	
Closure Report to State	12/31/1997	12/10/1997	12/18/1997	12/18/1997	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-19-01	A12 Fleet Ops Steam Cleaning Efflu.	Waste Disposal Site	Fleet Operations Area	Rainier Mesa

CAU Number: **340 NTS Pesticide Release Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 6/6/2000

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	3/31/1998	2/10/1998	3/9/1998	3/9/1998	
CADD to State	11/30/1998	11/19/1998	12/8/1998	12/8/1998	
CAP to State	9/30/1999	9/9/1999	9/24/1999	9/24/1999	
Closure Report to State	7/31/2000	5/24/2000	6/6/2000	6/6/2000	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
15-18-02	Area 15 Quonset Hut, Q15-11 Pesticide Storage	Chemical Storage	EPA Farm	Oak Spring
23-18-03	Area 23 Skid Huts Pesticide Storage	Chemical Storage	Sewage Treatment Plant	Camp Desert Rock
23-21-01	Area 23 Quonset Hut, Q800 Pesticide Release Ditch	Waste Disposal Trench	Quonset Hut 800	Camp Desert Rock

CAU Number: **343 Areas 1, 3, & 4 Housekeeping Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 3/11/2002

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	2/28/2002	2/21/2002	3/11/2002	3/11/2002	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
01-22-06	Drums (2)	Housekeeping Waste	U-1e	Yucca Flat
01-24-03	Batteries (2)	Housekeeping Waste	5-Story Tower	Yucca Flat
03-14-05	Transformers; Switch Boxes	Housekeeping Waste	Bunker 3-53	Yucca Flat
03-22-06	Drums; Bucket; Can	Housekeeping Waste	U-3Lu	Yucca Lake
03-22-07	Buckets (2)	Housekeeping Waste	U-3jh	Yucca Lake
03-22-10	Drum	Housekeeping Waste	U-3ki	Yucca Flat
03-22-12	Drum	Housekeeping Waste	U-3jL	Yucca Flat
03-22-14	Drums (2)	Housekeeping Waste	U-3jy	Yucca Flat
03-22-24	Drum	Housekeeping Waste	U-3bi	Yucca Flat
03-22-25	Drum	Housekeeping Waste	U-3dk	Yucca Flat
03-22-26	Can	Housekeeping Waste	U-3as	Yucca Flat
03-22-30	Buckets; Cans; Debris	Housekeeping Waste	U-3kz PS 1A	Yucca Flat
03-22-34	Drum	Housekeeping Waste	U-3ay	Yucca Flat
03-22-37	Drum	Housekeeping Waste	U-3bu Crater	Yucca Flat
03-24-08	Battery	Housekeeping Waste	U-3kq	Yucca Flat

CAU Number: **343 Areas 1, 3, & 4 Housekeeping Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 3/11/2002

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-99-10	Gas Can	Housekeeping Waste	U-3gd	Yucca Flat

CAU Number: **344 Areas 4, 7 Housekeeping Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 1/16/1998

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	9/30/1997	7/14/1997	11/10/1997	1/16/1998	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
04-14-01	Transformer	Housekeeping Waste	Bunker 4-61	Yucca Flat
04-22-05	Drum; 2 Batteries	Housekeeping Waste	U-4q	Yucca Flat
04-24-08	Batteries (3)	Housekeeping Waste	U-4q	Yucca Flat
04-24-09	Battery	Housekeeping Waste	U-4au	Yucca Flat
07-22-02	Buckets	Housekeeping Waste	U-7bi	Yucca Flat
07-22-12	Drum	Housekeeping Waste	U-7ay	Yucca Flat
07-24-02	Batteries	Housekeeping Waste	U-7au	Yucca Flat
07-24-03	Batteries	Housekeeping Waste	Contaminated Materials Storage	Paiute Ridge
07-46-01	Gas Cylinder	Housekeeping Waste	RSM 70-6	Yucca Flat
07-46-02	Gas Cylinder	Housekeeping Waste	UE-7ns	Yucca Flat
07-99-01	Miscellaneous Debris	Housekeeping Waste	Gate 7-1c	Yucca Flat
07-99-06	Vehicle Gas Tank	Housekeeping Waste	U-7g	Yucca Flat

CAU Number: **345 Areas 2, 9 Housekeeping Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 11/28/2000

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	9/29/2000	9/14/2000	9/20/2000	11/28/2000	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-14-01	Electrical Park/Transformers; Switch	Housekeeping Waste	Area 2 Camp	Oak Spring
02-22-04	Drum	Housekeeping Waste	U-2bp #2	Oak Spring
02-24-06	Batteries (2)	Housekeeping Waste	U-2bj PS#1A	Oak Spring
09-22-02	Drum	Housekeeping Waste	U-9 ITS X-23	Oak Spring
09-22-03	Drum	Housekeeping Waste	S-9E and T-9C	Yucca Flat
09-22-13	Drum/Unknown Material	Housekeeping Waste	U-9av	Oak Spring
09-22-18	Drum	Housekeeping Waste	U-9bt	Yucca Flat
09-22-19	Drums (3)	Housekeeping Waste	U-9bj	Yucca Flat
09-22-22	Drums (2)	Housekeeping Waste	U-9u	Oak Spring
09-24-04	Batteries	Housekeeping Waste	Water Tank on 9-01 Rd.	Oak Spring

CAU Number: **346 Areas 8, 10 Housekeeping Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 9/9/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	9/30/2003	9/5/2003	9/9/2003	9/9/2003	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
08-22-04	Drums (2)	Housekeeping Waste	U-8d	Oak Spring
08-22-11	Drums; Buckets	Housekeeping Waste	U-8d	Oak Spring
08-24-02	Battery	Housekeeping Waste	U-8c	Oak Spring
10-14-01	Transformer	Housekeeping Waste	U-10am #5	Oak Spring
10-22-06	Drum (Gas Block)	Housekeeping Waste	U-10s	Oak Spring
10-22-10	Drum (Gas Block)	Housekeeping Waste	U-10aj F	Oak Spring
10-22-12	Drum (Gas Block)	Housekeeping Waste	U-10aj F	Oak Spring
10-22-13	Drum (Gas Block)	Housekeeping Waste	U-10ag	Oak Spring
10-22-16	Drum (Gas Block)	Housekeeping Waste	U-10m	Oak Spring
10-22-22	Drum	Housekeeping Waste	U-10am #3	Oak Spring
10-22-25	Drum	Housekeeping Waste	U-10am #1	Oak Spring
10-22-36	Paint Can	Housekeeping Waste	U-10am #1	Oak Spring
10-22-37	Gas Block	Housekeeping Waste	U-10aj F	Oak Spring
10-24-11	Battery	Housekeeping Waste	U-10am #3	Oak Spring

CAU Number: **347 Areas 5, 11 Housekeeping Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 2/2/1998

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	3/2/1998	1/15/1998	2/2/1998	2/2/1998	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
05-22-01	Drums (2)	Housekeeping Waste	Sugar Bunker	Frenchman Lake
05-22-06	Drum	Housekeeping Waste	Gate 200	Mercury
05-22-13	Drums; Battery	Housekeeping Waste	Old Mercury Highway	Mercury
05-22-15	Drum	Housekeeping Waste	GMX Facility	Frenchman Lake
05-22-17	Drum	Housekeeping Waste	Gravel Gertie	Frenchman Lake
05-22-20	Drum	Housekeeping Waste	Frenchman Lake	Frenchman Lake
05-22-22	Drum	Housekeeping Waste	Gravel Gertie	Frenchman Lake
05-22-23	Drum	Housekeeping Waste	Frenchman Lake	Frenchman Lake
05-22-24	Drum	Housekeeping Waste	Gravel Gertie	Frenchman Lake
05-22-39	Bucket	Housekeeping Waste	U-5e Well	Frenchman Lake
05-24-06	Battery, Tank, Cistern	Housekeeping Waste	Frenchman Lake at H Rd	Frenchman Lake
05-99-06	Decon Boots; Caustic Lime	Housekeeping Waste	GMX Facility	Frenchman Lake
11-22-01	Drums (5)	Housekeeping Waste	W of Plutonium Valley	Plutonium Valley
11-22-02	Drums (6)	Housekeeping Waste	Aircraft Tail Section	Plutonium Valley
11-22-09	Drum	Housekeeping Waste	Tweezer Facility	Plutonium Valley

CAU Number: **347 Areas 5, 11 Housekeeping Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 2/2/1998

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
11-24-01	Batteries	Housekeeping Waste	Plutonium Valley	Plutonium Valley

CAU Number: **348 Area 6 Housekeeping Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 2/2/1998

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	3/2/1998	1/15/1998	2/2/1998	2/2/1998	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
06-22-17	Drums (2)	Housekeeping Waste	Yucca Lake	Yucca Lake
06-22-30	Drums	Housekeeping Waste	CP-50	Yucca Lake
06-22-37	Drums (2)	Housekeeping Waste	Yucca Lake	Yucca Lake
06-22-40	Gas Can	Housekeeping Waste	Area 6 CP Lagoon	Yucca Lake
06-22-45	Drum	Housekeeping Waste	CP-50	Yucca Lake
06-22-47	Plastic Drum	Housekeeping Waste	Well 3 Yard	Yucca Lake
06-24-04	Batteries (2)	Housekeeping Waste	Hot Park	Yucca Lake
06-24-06	Battery	Housekeeping Waste	U-3Lk	Yucca Lake
06-24-07	Batteries (5)	Housekeeping Waste	Repeater Station	Yucca Lake
06-24-08	Batteries (2)	Housekeeping Waste	Repeater Station	Yucca Lake
06-27-01	Transformer	Housekeeping Waste	CP-50	Yucca Lake
06-99-02	Bottles	Housekeeping Waste	Trailer 13	Yucca Lake

CAU Number: **349 Area 12 Housekeeping Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 5/5/1998

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	9/30/1998	3/6/1998	5/5/1998	5/5/1998	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-14-01	Transformer	Housekeeping Waste	U-12BR-9	Rainier Mesa
12-14-02	Transformer	Housekeeping Waste	T-Tunnel Pond #4	Rainier Mesa
12-14-03	Transformer	Housekeeping Waste	Lineman Storage Yard	Rainier Mesa
12-22-13	Drum	Housekeeping Waste	U-12g.08 CH #1	Rainier Mesa
12-22-15	Drum	Housekeeping Waste	U-12e.03aa	Rainier Mesa
12-22-19	Drum	Housekeeping Waste	T-Tunnel Pond #3	Rainier Mesa
12-22-27	Drum	Housekeeping Waste	I, J, K Tunnels	Rainier Mesa
12-22-28	Drum	Housekeeping Waste	I, J, K Tunnels	Rainier Mesa
12-22-29	Drums (2)	Housekeeping Waste	K-Tunnel	Rainier Mesa
12-22-33	Drum	Housekeeping Waste	U-12f	Rainier Mesa
12-22-37	Drum	Housekeeping Waste	U-12c Portal	Rainier Mesa
12-22-38	Drum	Housekeeping Waste	Building 12-300	Rainier Mesa
12-22-43	Drums (2)	Housekeeping Waste	U-12r	Rainier Mesa
12-24-01	Battery	Housekeeping Waste	U-12b R-9	Rainier Mesa
12-24-05	Battery	Housekeeping Waste	Doe Point	Rainier Mesa

CAU Number: **349 Area 12 Housekeeping Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 5/5/1998

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-24-12	Battery	Housekeeping Waste	U-12e.03aa	Rainier Mesa
12-24-14	Batteries (4)	Housekeeping Waste	U-12g.07 CH #1	Rainier Mesa
12-24-17	Batteries (12)	Housekeeping Waste	J-Tunnel	Rainier Mesa
12-24-18	Batteries	Housekeeping Waste	J-Tunnel	Rainier Mesa
12-24-21	Batteries (2)	Housekeeping Waste	U-12b Portal	Rainier Mesa
12-24-22	Batteries (Dry Cell)	Housekeeping Waste	Rooster Point	Rainier Mesa
12-24-23	Batteries (3)	Housekeeping Waste	R Road	Rainier Mesa
12-24-24	Batteries (2)	Housekeeping Waste	RSM 12 P 4	Rainier Mesa
12-46-02	Gas Cylinder	Housekeeping Waste	Area 12 Fire Station	Rainier Mesa
12-99-02	Fuel Tank	Housekeeping Waste	RSM 12 R 13	Rainier Mesa
12-99-03	Gas Cylinder	Housekeeping Waste	P Road, Shacks	Rainier Mesa
12-99-05	Asbestos Pipe	Housekeeping Waste	Area 12 Camp	Rainier Mesa
12-99-09	Gas Cylinder	Housekeeping Waste	Lineman Storage Yard	Rainier Mesa
12-99-11	Asbestos Pipe	Housekeeping Waste	Area 12 Camp	Rainier Mesa

CAU Number: **350 Miscellaneous Housekeeping Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 6/20/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	6/30/2003	6/13/2003	6/20/2003	6/20/2003	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-26-01	Lead Shot	Lead	K-Tunnel	Rainier Mesa
15-22-04	Drums (2)	Housekeeping Waste	U-15e	Oak Spring
15-22-06	Drums (10)	Housekeeping Waste	Climax Hoist	Oak Spring
15-22-16	Drums (3)	Housekeeping Waste	Climax Mine	Oak Spring
15-22-22	Hydrocarbon Impacted Soils	Housekeeping Waste	RSM 8 K 21	Oak Spring
15-22-29	Drums (2)	Housekeeping Waste	Climax Hoist	Oak Spring
15-24-07	Batteries	Housekeeping Waste	Climax Hoist	Oak Spring
15-99-02	Gas Cylinder	Housekeeping Waste	Climax Mine	Oak Spring

FFACO
Appendix IV - Closed Corrective Action Units

CAU Number: **351 Areas 16, 18, 29, 30 Housekeeping Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 8/6/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	8/29/2003	7/31/2003	8/6/2003	8/6/2003	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
16-22-28	Drum	Housekeeping Waste	Area 16 Camp	Tippipah Spring
18-22-01	Drums	Housekeeping Waste	RSM 20 A 104	Scrugham Peak
18-22-04	Drums (2)	Housekeeping Waste	Unknown	Buckboard Mesa
18-22-19	Drums (2)	Housekeeping Waste	17 Camp	Ammonia Tanks
18-24-01	Batteries (Dry Cell)	Housekeeping Waste	Little Feller II	Buckboard Mesa
18-24-02	Batteries (3)	Housekeeping Waste	Little Feller II	Buckboard Mesa
18-24-04	Batteries (2)	Housekeeping Waste	UE-18r	Scrugham Peak
18-24-05	Batteries (2)	Housekeeping Waste	U-18a Danny Boy	Buckboard Mesa
18-24-14	Battery	Housekeeping Waste	Area 17 Camp	Ammonia Tanks
18-24-15	Battery	Housekeeping Waste	U-18d Sulky	Buckboard Mesa
30-22-06	Drum	Housekeeping Waste	RSM 30 C 46	Timber Mountain
30-24-02	Battery	Housekeeping Waste	RSM 30 C 37	Timber Mountain
30-46-01	Gas Cylinders (2)	Housekeeping Waste	RSM 30 C 37	Timber Mountain

CAU Number: **352 Areas 19, 20 Housekeeping Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 6/9/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	5/30/2003	5/27/2003	6/9/2003	6/9/2003	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
19-14-01	Transformer	Housekeeping Waste	U-19g	Dead Horse Flat
19-22-05	Drums (2)	Housekeeping Waste	Well	Silent Butte
19-22-23	Drum	Housekeeping Waste	Perimeter Fence	Dead Horse Flat
19-22-29	Drum	Housekeeping Waste	Substation/19-02 Road	Dead Horse Flat
19-22-30	Drums	Housekeeping Waste	RSM 19 E 4	Dead Horse Flat
19-24-05	Batteries (2)	Housekeeping Waste	RSM 19 E 4	Dead Horse Flat
19-24-08	Battery	Housekeeping Waste	Area 19 Camp	Silent Butte
19-24-09	Batteries (4)	Housekeeping Waste	Area 19 Camp	Silent Butte
20-14-01	Transformers (2)	Housekeeping Waste	U-20u	Trail Ridge
20-22-06	Drum	Housekeeping Waste	U-20k	Trail Ridge
20-22-17	Drum	Housekeeping Waste	U-20ar	Silent Butte
20-22-18	Drums (4)	Housekeeping Waste	U-20av	Scrugham Peak
20-22-26	Drums (11)	Housekeeping Waste	Area 20 Camp	Silent Butte
20-24-03	Batteries (2)	Housekeeping Waste	RSM 20 K 1	Trail Ridge
20-24-04	Batteries (4)	Housekeeping Waste	U-20k	Trail Ridge

CAU Number: **352 Areas 19, 20 Housekeeping Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 6/9/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
20-24-07	Batteries (2)	Housekeeping Waste	U-20ax Access Road	Silent Butte
20-24-10	Batteries (2)	Housekeeping Waste	Area 20 Camp	Silent Butte
20-24-11	Battery	Housekeeping Waste	U-20ao	Scrugham Peak
20-26-02	Lead Pellets	Housekeeping Waste	U-20av	Scrugham Peak
20-99-01	Steel Pipe/Old Mud Pit	Housekeeping Waste	U-20u	Trail Ridge
20-99-02	PVC Pipes	Housekeeping Waste	U-20ax	Scrugham Peak

CAU Number: **353 Areas 22, 23 Housekeeping Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 2/2/1998

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	3/2/1998	1/15/1998	2/2/1998	2/2/1998	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
22-22-01	Buckets (7)	Housekeeping Waste	Weather Station	Point of Rocks
22-99-03	Ammunition Storage Area	Housekeeping Waste	Camp Desert Rock	Point of Rocks

CAU Number: **354 Areas 25, 26, 27 Housekeeping Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 2/2/1998

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	3/2/1998	1/15/1998	2/2/1998	2/2/1998	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-22-02	Drums (2)	Housekeeping Waste	Test Cell A	Jackass Flats
25-22-03	Drums (35)	Housekeeping Waste	TTF Building	Jackass Flats
25-24-14	Batteries (2)	Housekeeping Waste	X-Tunnel Road	Striped Hills
25-24-17	Batteries (2)	Housekeeping Waste	Engine Test Stand 1	Jackass Flats
25-24-18	Battery	Housekeeping Waste	Engine Test Stand 1	Jackass Flats
25-27-01	PCB Drums (2)	Housekeeping Waste	Test Cell C	Jackass Flats
25-27-02	Drums	Housekeeping Waste	R-MAD Facility	Skull Mountain
25-99-15	Highway Flares (fuses)	Housekeeping Waste	E-MAD Facility	Jackass Flats
25-99-17	Gas Bottles (4)	Housekeeping Waste	Test Cell A	Jackass Flats
26-99-02	Smoke Pots (4)	Housekeeping Waste	Pluto Facility	Skull Mountain
27-22-01	Drums (5)	Housekeeping Waste	Able Compound Access Road	Skull Mountain
27-22-02	Drum; Fuel Can	Housekeeping Waste	EOD Area	Cane Spring

CAU Number: **355 Area 2 Cellars/Mud Pits**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 12/3/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	1/31/2003	1/10/2003	1/30/2003	3/13/2003	
Closure Report to State	8/31/2004	11/20/2003	12/3/2003	12/3/2003	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-37-01	Cellar & Mud Pit	Sump (Cellar)	U-2u	Oak Spring
02-37-03	Cellar & Mud Pit	Sump (Cellar)	U-2ay #1 Crater	Yucca Flat
02-37-04	Cellar & Mud Pit	Sump (Cellar)	U-2ay #2 Crater	Yucca Flat
02-37-05	Cellar & Mud Pit	Sump (Cellar)	U-2ay #3	Yucca Flat
02-37-06	Cellar & Mud Pit	Sump (Cellar)	U-2bc	Oak Spring
02-37-07	Cellar & Mud Pit	Sump (Cellar)	U-2bp-1	Oak Spring
02-37-10	Cellar & Mud Pit	Sump (Cellar)	U-2dc #5	Yucca Flat
02-37-11	Cellar & Mud Pit	Sump (Cellar)	U-2dd-1	Yucca Flat
02-37-12	Cellar & Mud Pit	Sump (Cellar)	U-2dd #3	Yucca Flat
02-37-13	Cellar & Mud Pit	Sump (Cellar)	U-2dd-4	Yucca Flat
02-37-14	Cellar & Mud Pit	Sump (Cellar)	U-2dk	Yucca Flat
02-37-15	Cellar & Mud Pit	Sump (Cellar)	U-2dn	Yucca Flat
02-37-16	Cellar & Mud Pit	Sump (Cellar)	U-2dr	Oak Spring

CAU Number: **355 Area 2 Cellars/Mud Pits**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 12/3/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-37-17	Cellar	Sump (Cellar)	U-2em	Oak Spring
02-37-18	Cellar & Tanks	Sump (Cellar)	U-2gh	Yucca Flat

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Appendix IV - Closed Corrective Action Units

CAU Number: **356 Mud Pits and Disposal Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 1/23/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	11/30/2001	8/22/2001	9/18/2001	9/18/2001	
Closure Report to State	9/2/2002	8/28/2002	9/26/2002	1/23/2003	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-04-01	Area 3 Change House Septic System	Septic Tank	Change House	Yucca Flat
03-09-01	Mud Pit Spill Over	Mud Pit	U-3Ly	Yucca Flat
03-09-03	Mud Pit	Mud Pit	U-3jv	Yucca Flat
03-09-04	Mud Pit	Mud Pit	U-3gi	Yucca Flat
03-09-05	Mud Pit	Mud Pit	U-3La	Yucca Flat
20-16-01	Landfill	Waste Dump	U-20b	Silent Butte
20-22-21	Drums (2)	Housekeeping Waste	U-20b	Silent Butte

CAU Number: **357 Mud Pits and Waste Dump**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 5/11/2005

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	6/30/2003	6/25/2003	7/23/2003	7/23/2003	
Closure Report to State	5/1/2005	4/22/2005	5/11/2005	5/11/2005	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
01-99-01	Boxes; Pipes	Housekeeping Waste	Building 1-31.2e1	Yucca Flat
04-26-03	Lead Bricks	Lead	T-4 313	Yucca Flat
07-09-02	Mud Pit	Mud Pit	UE-7L	Yucca Flat
07-09-03	Mud Pit	Mud Pit	RadSafe Base Station	Yucca Flat
07-09-04	Mud Pit	Mud Pit	3-05 Road	Yucca Flat
07-09-05	Mud Pit	Mud Pit	U-7n	Yucca Flat
08-09-01	Mud Pit	Mud Pit	U-8d	Oak Spring
08-09-02	Mud Pit	Mud Pit	U-8d	Oak Spring
08-09-03	Mud Pit	Mud Pit	U-8d	Oak Spring
10-09-02	Mud Pit	Mud Pit	U-10as	Oak Spring

CAU Number: **357 Mud Pits and Waste Dump**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 5/11/2005

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
10-09-04	Mud Pit	Mud Pit	10-01 Road	Oak Spring
10-09-05	Mud Pit	Mud Pit	U-10v and U-2ey	Oak Spring
10-09-06	Mud Pit; Stains; Material	Mud Pit	U-10am #5	Oak Spring
25-15-01	Waste Dump	Waste Dump	NE of R-MAD Facility	Skull Mountain

CAU Number: **358 Areas 18, 19, 20 Cellars/Mud Pits**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 2/2/2004

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

Post-Closure Monitoring has been removed.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	12/2/2002	11/15/2002	1/3/2003	3/28/2003	
Closure Report to State	9/30/2004	1/8/2004	2/2/2004	2/2/2004	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-99-01	Oil Stained Dirt on Concrete	Oil/Fuel Spills	Building 2-353	Oak Spring
03-22-33	Bucket; Spill; Debris	Housekeeping Waste	U-3mc	Yucca Flat
03-99-04	Spill	Housekeeping Waste	U-3ky	Yucca Flat
12-30-02	Drill Holes	Drillhole	U-12b.R1-9	Rainier Mesa
18-09-01	Mud Pit	Mud Pit	UE-18r	Scrugham Peak
19-09-05	Mud Pit	Mud Pit	UE-19c	Dead Horse Flat
19-09-06	Mud Pit	Mud Pit	U-19av	Silent Butte
19-09-07	Mud Pit	Mud Pit	U-19j	Dead Horse Flat
20-09-05	Mud Pit	Mud Pit	U-20bc	Silent Butte
20-09-08	Mud Spill	Mud Pit	U-20aw	Silent Butte
20-23-02	Postshot Cellar	Sump (Cellar)	U-20ae	Silent Butte
20-23-03	Cellar	Sump (Cellar)	U-20az	Scrugham Peak
20-23-04	Postshot Cellar	Sump (Cellar)	U-20am	Silent Butte

CAU Number: **358 Areas 18, 19, 20 Cellars/Mud Pits**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 2/2/2004

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

Post-Closure Monitoring has been removed.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
20-23-05	Postshot Cellar	Sump (Cellar)	U-20ab	Silent Butte
20-23-06	Cellar	Sump (Cellar)	U-20ac	Scrugham Peak
20-37-01	Cellar & Mud Pit	Sump (Cellar)	U-20aa	Silent Butte
20-37-05	Cellar	Sump (Cellar)	U-20ak	Scrugham Peak

CAU Number: **359 Archived - Area 5 U-11e Construction Materials/Lead Bricks**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **360 Archived - Area 12 U-12b R1-9 Dirt Berm**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **363 Archived - Area 20 U-20b Drilling Fluid Landfill**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **386 Areas 2-4,7-9,11,12,15,19,20,25 Housekeeping Lead Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 12/30/1996

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	1/26/1996	1/26/1996	N/A	N/A	
Closure Report to State	9/30/1996	9/23/1996	N/A	12/30/1996	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-26-09	Lead Bricks (100)	Housekeeping Waste	T-2	Oak Spring
03-26-03	Lead Brick; 3 Tubes Silicon	Housekeeping Waste	Cable Fabrication Bldg.	Yucca Flat
07-26-02	Lead Sheet	Housekeeping Waste	U-7i	Yucca Flat
08-26-02	Lead Shot	Housekeeping Waste	Area 8 Trailer Park	Oak Spring
08-26-03	Lead Strip	Housekeeping Waste	U-2gd	Oak Spring
09-26-02	Lead Sheet	Housekeeping Waste	Bunker 9-800	Oak Spring
11-26-01	Lead	Housekeeping Waste	Pu Valley	Plutonium Valley
12-26-03	Lead Brick	Housekeeping Waste	U-12b Portal	Rainier Mesa
15-26-02	Lead Bricks (3)	Housekeeping Waste	Climax Hoist	Oak Spring
15-26-03	Lead Sheet; Stain	Housekeeping Waste	Climax Hoist	Oak Spring
19-26-02	Lead Brick	Housekeeping Waste	U-19zS	Dead Horse Flat
25-19-01	Lead Bricks; Paraffin	Waste Disposal Site	Test Cell A	Jackass Flats
25-26-02	Lead Bricks (24)	Housekeeping Waste	Engine Test Stand 1	Jackass Flats

CAU Number: **386 Areas 2-4,7-9,11,12,15,19,20,25 Housekeeping Lead Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 12/30/1996

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-26-03	Lead Bricks (24)	Housekeeping Waste	Test Cell A	Jackass Flats
25-26-15	Lead Shot	Housekeeping Waste	R-MAD Facility	Skull Mountain
25-26-23	Lead	Housekeeping Waste	Test Cell A	Jackass Flats
25-26-24	Lead Bricks	Housekeeping Waste	E-MAD Facility	Jackass Flats
25-26-25	Lead Bricks/Drum	Housekeeping Waste	Engine Test Stand 1	Jackass Flats

CAU Number: **387 Spill Sites and Releases**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 11/29/2001

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	11/30/2001	11/1/2001	11/29/2001	11/29/2001	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-44-01	U-2gh Drill Site Release	Housekeeping Waste	U-2gh	Yucca Flat
02-99-02	Epoxy Tar Spill	Housekeeping Waste	U-2er	Oak Spring
02-99-03	Epoxy Tar Spills	Housekeeping Waste	U-2fd	Oak Spring
02-99-04	Spill	Housekeeping Waste	U-2bg PS #1A	Oak Spring
02-99-07	Cement Spill	Housekeeping Waste	U-2ey	Oak Spring
02-99-09	Spill	Housekeeping Waste	U-2eL	Yucca Flat
02-99-11	Spill	Housekeeping Waste	Powerline Road	Oak Spring
03-22-22	Bucket; Spill	Housekeeping Waste	U-3ev-1 Shaft	Paiute Ridge
03-22-35	Drum; Spill	Housekeeping Waste	U-3ab	Yucca Flat
03-44-03	Spills	Housekeeping Waste	U-3mk Crater	Paiute Ridge
03-99-01	Spill	Housekeeping Waste	U-3gn	Yucca Flat
03-99-02	Spill	Housekeeping Waste	U-3es	Yucca Flat
03-99-03	Spill	Housekeeping Waste	U-3gn	Yucca Flat
03-99-06	Spill	Housekeeping Waste	U-3kj	Yucca Flat
03-99-07	Spill	Housekeeping Waste	U-3Lf	Yucca Flat

CAU Number: **387 Spill Sites and Releases**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 11/29/2001

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-99-08	Tar Spill	Housekeeping Waste	U-3gi	Yucca Flat
03-99-09	Spill	Housekeeping Waste	U-3gz	Paiute Ridge
03-99-17	Bottle Spill	Housekeeping Waste	U-3cq	Yucca Flat
03-99-18	Cement Spill	Housekeeping Waste	U-3as	Yucca Flat
04-44-01	Spill	Housekeeping Waste	U-4as	Yucca Flat
04-44-03	U-4t Postshot Hole Release	Housekeeping Waste	U-4t	Yucca Flat
07-99-02	Discolored Area	Housekeeping Waste	UE-7ns	Yucca Flat
07-99-03	Compressed Bottle; Tar Spill	Housekeeping Waste	U-7bg	Yucca Flat

CAU Number: **388 Archived - Areas 4, 7 Spill Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **389 Archived - Area 2 Spill Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **390 Areas 9, 10, and 12 Spill Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 10/27/2005

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	11/30/2005	10/19/2005	10/27/2005	10/27/2005	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
09-99-03	Wax, Paraffin	Housekeeping Waste	U-9av	Oak Spring
10-99-01	Epoxy Tar Spill	Housekeeping Waste	U-10bf	Oak Spring
10-99-03	Tar Spills	Housekeeping Waste	U-10am #5	Oak Spring
12-25-03	Oil Stains (2); Container	Housekeeping Waste	U-12n.10 Vent Hole	Rainier Mesa

CAU Number: **391 Archived - Area 10 Spill Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

FFACO
Appendix IV - Closed Corrective Action Units

CAU Number: **392 Spill Sites and Construction Materials**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 2/28/2002

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	11/30/2001	11/1/2001	12/10/2001	2/28/2002	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
05-17-02	Construction Materials/Lead Bricks	Hazardous Waste Site	U-11e	Plutonium Valley
06-17-03	Cement Mud Pit	Other Spill Site	Well 3 Yard	Yucca Lake
06-19-01	Cable Pile; Powder Piles (3)	Waste Disposal Site	Well 3 Road	Yucca Lake
06-44-02	Spill	Housekeeping Waste	CP-1 Helipad	Yucca Lake
06-44-03	Spill	Housekeeping Waste	U-6b	Yucca Lake
06-44-04	Cutting Fluid Discharge	Other Spill Site	Building 6-623	Buckboard Mesa

CAU Number: **393 Archived - Area 12 Spill Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

FFACO
Appendix IV - Closed Corrective Action Units

CAU Number: **394 Areas 12, 18, and 29 Spill/Release Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 10/13/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	9/28/2001	9/25/2001	10/31/2001	10/31/2001	
Closure Report to State	9/30/2003	9/26/2003	10/13/2003	10/13/2003	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-25-04	UST 12-16-2 Waste Oil Release	Oil/Fuel Spills	Area 12	Rainier Mesa
18-25-01	Oil Spills	Oil/Fuel Spills	17 Camp Gas Station	Ammonia Tanks
18-25-02	Oil Spills	Oil/Fuel Spills	17 Camp	Ammonia Tanks
18-25-03	Oil Spill	Oil/Fuel Spills	17 Camp Generator Shack	Ammonia Tanks
18-25-04	Spill (Diesel Fuel)	Oil/Fuel Spills	Pahute Mesa Air Strip	Buckboard Mesa
29-44-01	Fuel Spill	Oil/Fuel Spills	Transmitter Station	Mine Mountain

CAU Number: **395 Area 19 Spill Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 11/2/2005

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	10/31/2005	10/20/2005	11/2/2005	11/2/2005	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
19-19-04	Concrete Spill	Housekeeping Waste	U-19bg Borrow Pit	Dead Horse Flat
19-25-03	Oil Spills	Oil/Fuel Spills	RSM 19 P 45	Ammonia Tanks
19-44-02	Fuel Spill	Oil/Fuel Spills	Echo Peak Station	Ammonia Tanks
19-44-04	U-19bk Drill Site Release	Oil/Fuel Spills	19-03 Road	Silent Butte
19-44-05	U-19bh Drill Site Release	Oil/Fuel Spills	U-19bh	Ammonia Tanks
19-99-05	Pile; Unknown Material	Other Spill Site	U-19e PS	Dead Horse Flat
19-99-07	Cement Spill	Other Spill Site	U-19am Trailer Park	Dead Horse Flat
19-99-08	Cement Spill	Other Spill Site	U-19at	Ammonia Tanks
19-99-10	Cement Spill	Other Spill Site	U-19f Trailer Park	Ammonia Tanks

CAU Number: **396 Area 20 Spill Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 9/17/2004

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	4/30/2003	4/17/2003	5/7/2003	5/7/2003	
Closure Report to State	11/1/2004	9/13/2004	9/17/2004	9/17/2004	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
20-25-01	Oil Spills (2)	Oil/Fuel Spills	U-20bc	Silent Butte
20-25-02	Oil Spills	Oil/Fuel Spills	U-20ax	Scrugham Peak
20-25-03	Oil Spill	Oil/Fuel Spills	U-20az	Scrugham Peak
20-99-08	Spill	Oil/Fuel Spills	RSM 20 P 130	Silent Butte

CAU Number: **397 Archived - Areas 22, 23 Spill Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **420 Archived - Area 8 Smoky Historic Area Lead Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **421 Archived - Area 12 K Tunnel Area Lead Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **422 Archived - Area 12 I,J,K Tunnel Area Lead Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **441 Archived - Area 25 RMAD Waste Dump**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **445 Archived – Area 12 Disposal Site**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **446 Archived - Area 6 Well 3 Yard UST and Piping**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **449 Archived - Area 3 U-3auS Disposal Site**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **462 Archived - Area 4 Lead Site at T-4**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **463 Areas 2, 3, 9, and 25 Housekeeping Waste Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 12/14/1999

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	12/31/1999	11/29/1999	12/14/1999	12/14/1999	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-24-10	Batteries (3)	Housekeeping Waste	U-2eu	Oak Spring
03-22-17	Drum; Bucket	Housekeeping Waste	U-3dg	Yucca Flat
03-22-29	Drum	Housekeeping Waste	U-3La	Yucca Flat
03-22-40	Drums	Housekeeping Waste	U-3mf PS #2A	Yucca Flat
03-22-41	Drums	Housekeeping Waste	U-3cn	Yucca Flat
03-22-44	Drum	Housekeeping Waste	U-3jh	Yucca Lake
03-22-45	Drum	Housekeeping Waste	U-3kv	Yucca Flat
03-24-10	Battery	Housekeeping Waste	U-3mf PS #2A	Yucca Flat
03-24-21	Battery (Broken)	Housekeeping Waste	U-3gg	Yucca Flat
03-46-02	Gas Cylinders	Housekeeping Waste	Cable Fabrication Bldg.	Yucca Flat
09-14-01	Transformers	Housekeeping Waste	Bunker 9-800	Oak Spring
25-26-10	Lead Bricks	Housekeeping Waste	Building 3124	Jackass Flats
25-26-26	Lead Bricks	Housekeeping Waste	Building 3124	Jackass Flats

CAU Number: **530 LANL Preshot Mud Pits**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 7/27/2006

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	9/15/2005	7/19/2005	8/8/2005	8/8/2005	
Closure Report to State	7/31/2006	7/10/2006	7/27/2006	7/27/2006	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
01-09-01	U-1f Mud Pit (2)	Mud Pit	U-1f	Yucca Flat
01-09-02	U-1e Mud Pit (2)	Mud Pit	U-1e	Yucca Flat
01-09-03	U-1d Mud Pit (2)	Mud Pit	U-1d Crater Area	Yucca Flat
02-09-02	U-2ct Mud Pit (1)	Mud Pit	U-2ct	Yucca Flat
03-09-08	U-3Lf Mud Pit (2)	Mud Pit	U-3Lf	Yucca Flat
03-09-09	U-3mh Mud Pit (2)	Mud Pit	U-3mh Crater Area	Paiute Ridge
03-09-10	U-3mr Mud Pit (2)	Mud Pit	U-3mr	Yucca Flat
03-09-11	U-3Lb Mud Pit (2)	Mud Pit	U-3Lb Crater Area	Yucca Flat
03-09-12	U-3Lp Mud Pit (2)	Mud Pit	U-3Lp Crater Area	Yucca Flat
03-09-13	U-3ko Mud Pit (2)	Mud Pit	U-3ko	Yucca Flat
03-09-14	U-3Lx Mud Pit (2)	Mud Pit	U-3Lx	Yucca Flat
03-09-15	U-3kL Mud Pit (2)	Mud Pit	U-3kL	Yucca Flat
03-09-16	U-3mt Mud Pit (2)	Mud Pit	U-3mt Crater Area	Yucca Flat

CAU Number: **530 LANL Preshot Mud Pits**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 7/27/2006

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-09-17	U-3hc Mud Pit (2)	Mud Pit	U-3hc	Yucca Flat
03-09-18	U-3ke Mud Pit (2)	Mud Pit	U-3ke	Yucca Flat
03-09-19	U-3mk Mud Pit (2)	Mud Pit	U-3mk Crater Area	Paiute Ridge
03-09-20	U-3mu Mud Pit (2)	Mud Pit	U-3mu	Paiute Ridge
03-09-21	U-3gv Mud Pit (2)	Mud Pit	U-3gv	Yucca Flat
03-09-22	U-3ka Mud Pit (2)	Mud Pit	U-3ka	Yucca Flat
03-09-23	U-3gy Mud Pit (1)	Mud Pit	U-3gy	Yucca Flat
03-09-24	U-3mq Mud Pit (2)	Mud Pit	U-3mq	Yucca Flat
04-09-01	U-4i Mud Pit (2)	Mud Pit	U-4i Crater Area	Yucca Flat
04-09-02	U-4o Mud Pit (2)	Mud Pit	U-4o	Yucca Flat
04-09-03	U-4r Mud Pit (2)	Mud Pit	U-4r Crater Area	Yucca Flat
04-09-04	U-4s Mud Pit (1)	Mud Pit	U-4s Crater Area	Yucca Flat
06-09-02	U-6f Mud Pit (2)	Mud Pit	U-6f	Yucca Lake
07-09-06	U-7bg Mud Pit (2)	Mud Pit	U-7bg Crater Area	Yucca Flat
07-09-07	U-7an Mud Pit (2)	Mud Pit	U-7an Crater Area	Yucca Flat
07-09-08	U-7br Mud Pit (2)	Mud Pit	U-7br Crater Area	Yucca Flat
07-09-09	U-7ay Mud Pit (2)	Mud Pit	U-7ay Crater Area	Yucca Flat
07-09-10	U-7aw Mud Pit (2)	Mud Pit	U-7aw	Yucca Flat

CAU Number: **530 LANL Preshot Mud Pits**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 7/27/2006

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
07-09-11	U-7by Mud Pit (2)	Mud Pit	U-7by Crater Area	Yucca Flat
07-09-12	U-7be Mud Pit (2)	Mud Pit	U-7be Crater Area	Yucca Flat
07-09-13	U-7bz Mud Pit (2)	Mud Pit	U-7bz	Yucca Flat
07-09-14	U-7bc Mud Pit (2)	Mud Pit	U-7bc	Yucca Flat
07-09-15	U-7cc Mud Pit (2)	Mud Pit	U-7cc	Yucca Flat
07-09-16	U-7bf Mud Pit (2)	Mud Pit	U-7bf	Yucca Flat
07-09-17	U-7ag Mud Pit (2)	Mud Pit	U-7ag Crater Area	Yucca Flat
07-09-18	U-7ap Mud Pit (1)	Mud Pit	U-7ap Crater Area	Yucca Flat
07-09-19	U-7bx Mud Pit (2)	Mud Pit	U-7bg Crater Area	Yucca Flat
07-09-20	U-7bh Mud Pit (2)	Mud Pit	U-7bh Crater Area	Yucca Flat
07-09-21	U-7bt Mud Pit (2)	Mud Pit	U-7bt	Yucca Flat
07-09-22	U-7bw Mud Pit (3)	Mud Pit	U-7bw	Yucca Flat
19-09-08	U-19af Mud Pit (2)	Mud Pit	U-19af Crater Area	Ammonia Tanks
19-09-09	U-19ab PS #1A Covered Mud Pit (1)	Mud Pit	U-19ab PS #1A	Dead Horse Flat
19-09-10	U-19ak Mud Pit (2)	Mud Pit	U-19ak Crater Area	Dead Horse Flat
19-09-11	U-19L Mud Pit (2)	Mud Pit	U-19L Crater Area	Dead Horse Flat
19-09-12	U-19q Mud Pit (1)	Mud Pit	U-19q	Dead Horse Flat
19-09-13	U-19x Mud Pit (1)	Mud Pit	U-19x Crater Area	Ammonia Tanks

CAU Number: **530 LANL Preshot Mud Pits**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 7/27/2006

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
19-09-14	U-19bi Mud Pit (1)	Mud Pit	U-19i	Dead Horse Flat
19-09-15	U-19bf Mud Pit (2)	Mud Pit	U-19bf	Dead Horse Flat
19-09-16	U-19am Mud Pit (2)	Mud Pit	U-19am	Dead Horse Flat
19-09-17	U-19bj Mud Pit (1)	Mud Pit	U-19bj	Dead Horse Flat
19-09-18	U-19ba Mud Pit (2)	Mud Pit	U-19ba Crater Area	Dead Horse Flat

CAU Number: **531 LANL Postshot Mud Pits**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 7/27/2006

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	9/15/2005	7/19/2005	8/8/2005	8/8/2005	
Closure Report to State	7/31/2006	7/10/2006	7/27/2006	7/27/2006	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-09-25	U-3Lc PS #1A Covered Mud Pit (1)	Mud Pit	U-3Lc PS #1A	Yucca Lake
03-09-26	U-3kq PS #1A Covered Mud Pit (1)	Mud Pit	U-3kg PS #1A	Yucca Flat
03-09-27	U-3mh PS #1A Covered Mud Pit (1)	Mud Pit	U-3mh PS #1A	Paiute Ridge
03-09-28	U-3kt PS #1D Covered Mud Pit (1)	Mud Pit	U-3kt PS #1D	Yucca Flat
04-09-05	U-4ak PS #2A Covered Mud Pit (1)	Mud Pit	U-4ak PS #2A	Yucca Flat
04-09-06	U-4u PS #1A Covered Mud Pit (1)	Mud Pit	U-4u PS #1A	Yucca Flat
07-09-23	U-7j PS #2D Covered Mud Pit (1)	Mud Pit	U-7j PS #2D	Yucca Flat
07-09-24	U-7j PS #1D Covered Mud Pit (1)	Mud Pit	U-7j PS #1D	Yucca Flat
07-09-25	U-7i PS #2D Covered Mud Pit (1)	Mud Pit	U-7i PS #2D	Yucca Flat
19-09-19	U-19x PS #1D Mud Pit (1)	Mud Pit	U-19x PS #1D	Ammonia Tanks
19-09-20	U-19ay PS #1A Covered Mud Pit (1)	Mud Pit	U-19ay PS #1A	Dead Horse Flat
20-09-11	U-20a PPS #1D Mud Pit (2)	Mud Pit	U-20a PPS #1D	Scrugham Peak

CAU Number: **532 LLNL Preshot Mud Pits**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 7/27/2006

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	9/15/2005	7/19/2005	8/8/2005	8/8/2005	
Closure Report to State	7/31/2006	7/10/2006	7/27/2006	7/27/2006	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-09-03	U-2dc #4 PS #1A Covered Mud Pit (1)	Mud Pit	U-2dc #4 PS #1A	Yucca Flat
02-09-04	U-2ec Mud Pit (1)	Mud Pit	U-2ec Crater Area	Oak Spring
02-09-05	U-2dc #1 Mud Pit (1)	Mud Pit	U-2dc #1	Yucca Flat
02-09-06	U-2dc #2 Mud Pit (1)	Mud Pit	U-2dc #2 Crater Area	Yucca Flat
02-09-07	U-2dp Mud Pit (2)	Mud Pit	U-2dp Crater Area	Yucca Flat
02-09-08	U-2dm Mud Pit (1)	Mud Pit	U-2dm	Yucca Flat
02-09-09	U-2az #2 Mud Pit (2)	Mud Pit	U-2az #2	Yucca Flat
02-09-10	U-2cj Mud Pit (1)	Mud Pit	U-2cj	Rainier Mesa
02-09-11	U-2gi Mud Pit (1)	Mud Pit	U-2gi	Oak Spring
02-09-12	U-2gd Mud Pit (1)	Mud Pit	U-2gd	Oak Spring
02-09-13	U-2fh Mud Pit (1)	Mud Pit	U-2fh	Yucca Flat
02-09-14	U-2az #3 Mud Pit (2)	Mud Pit	U-2az #3	Yucca Flat
02-09-15	U-2do Mud Pit (1)	Mud Pit	U-2do	Yucca Flat

CAU Number: **532 LLNL Preshot Mud Pits**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 7/27/2006

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-09-16	U-2ds Mud Pit (1)	Mud Pit	U-2ds	Yucca Flat
02-09-17	U-2gc Mud Pit (1)	Mud Pit	U-2gc	Oak Spring
02-09-18	U-2ez Mud Pit (1)	Mud Pit	U-2ez	Yucca Flat
02-09-19	U-2bp #2 Zero Station Mud Pit (1)	Mud Pit	U-2bp #2 Zero Station	Oak Spring
02-09-20	U-2bp #1 Zero Station Mud Pit (2)	Mud Pit	U-2bp #1 Zero Station	Oak Spring
02-09-21	U-2gk Mud Pit (1)	Mud Pit	U-2gk	Yucca Flat
02-09-22	U-2ea Mud Pit (2)	Mud Pit	U-2ea	Oak Spring
02-09-23	U-2cw Mud Pit (1)	Mud Pit	U-2cw	Oak Spring
02-09-24	U-2dd #1 Mud Pit (2)	Mud Pit	U-2dd #1 Crater Area	Yucca Flat
02-09-25	U-2fg Mud Pit (1)	Mud Pit	U-2fg	Oak Spring
02-09-26	U-2cv Mud Pit (1)	Mud Pit	U-2cv	Rainier Mesa
04-09-07	U-4ag Mud Pit (1)	Mud Pit	U-4ag	Yucca Flat
04-09-08	U-4ad Mud Pit (1)	Mud Pit	U-4ad	Yucca Flat
04-09-10	U-4ap Mud Pit (1)	Mud Pit	U-4ap	Yucca Flat
04-09-12	U-4ae Mud Pit (1)	Mud Pit	U-4ae	Yucca Flat
04-09-13	U-4aq Mud Pit (1)	Mud Pit	U-4aq	Yucca Flat
05-09-01	U-5e Mud Pit (1)	Mud Pit	U-5e Crater Area	Frenchman Lake
06-09-03	U-6e Mud Pit (2)	Mud Pit	U-6e Crater Area	Yucca Lake

CAU Number: **532 LLNL Preshot Mud Pits**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 7/27/2006

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
07-09-26	U-7ar Mud Pit (2)	Mud Pit	U-7ar	Yucca Flat
08-09-04	UE-8f Mud Pit (1)	Mud Pit	UE-8f	Oak Spring
09-09-01	U-9 ITS V-26 Mud Pit (2)	Mud Pit	U-9 ITS V-26 Crater Area	Oak Spring
09-09-02	U-9 ITS X-24 Mud Pit (2)	Mud Pit	U-9 ITS X-24	Oak Spring
09-09-03	U-9 ITS Z-26 Mud Pit (2)	Mud Pit	U-9 ITS Z-26	Oak Spring
09-09-04	U-9W-24.5 Mud Pit (2)	Mud Pit	U-9 W-24.5	Oak Spring
09-09-05	U-9 ITS AA-25 Mud Pit (2)	Mud Pit	U-9 ITS AA-25	Oak Spring
09-09-06	U-9ch Mud Pit (1)	Mud Pit	U-9ch Crater Area	Oak Spring
09-09-07	U-9 ITS XY-31 Mud Pit (2)	Mud Pit	U-9 ITS XY-31	Oak Spring
09-09-08	U-9yz-26 Mud Pit (2)	Mud Pit	U-9yx-26	Oak Spring
09-09-09	U-9sS Mud Pit (2)	Mud Pit	U-9sS Crater Area	Oak Spring
09-09-10	U-9 ITS S-25 Mud Pit (2)	Mud Pit	U-9 ITS S-25	Oak Spring
09-09-11	U-9bi #2 Zero Station Mud Pit (2)	Mud Pit	U-9bi #2 Zero Station Crater Area	Yucca Flat
09-09-12	U-9cm Mud Pit (2)	Mud Pit	U-9cm	Yucca Flat
09-09-13	U-9 ITS X-27 Mud Pit (2)	Mud Pit	U-9 ITS X-27	Oak Spring
09-09-14	U-9 ITS U-24 Mud Pit (2)	Mud Pit	U-9 ITS U-24	Oak Spring
09-09-15	U-9 ITS X-22 Mud Pit (2)	Mud Pit	U-9 ITS X-22	Oak Spring

CAU Number: **532 LLNL Preshot Mud Pits**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 7/27/2006

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
09-09-16	U-9 ITS Z-21 Mud Pit (2)	Mud Pit	U-9 ITS Z-21	Oak Spring
09-09-17	U-9 ITS W-21 Mud Pit (2)	Mud Pit	U-9 ITS W-21 Crater Area	Oak Spring
09-09-18	U-9bz Mud Pit (1)	Mud Pit	U-9bz	Oak Spring
09-09-19	U-9 ITS X-28 Mud Pit (2)	Mud Pit	U-9 ITS X-28	Oak Spring
09-09-20	U-9 ITS Z-24 Mud Pit (2)	Mud Pit	U-9 ITS Z-24	Oak Spring
09-09-21	U-9co Mud Pit (1)	Mud Pit	U-9co Crater Area	Oak Spring
09-09-22	U-9cp Mud Pit (1)	Mud Pit	U-9cp Crater Area	Oak Spring
09-09-23	U-9 ITS Y-30 Mud Pit (2)	Mud Pit	U-9 ITS Y-30	Oak Spring
10-09-07	U-10an Mud Pit (2)	Mud Pit	U-10an Crater Area	Oak Spring
10-09-08	U-10bg Mud Pit (1)	Mud Pit	U-10bg	Oak Spring
10-09-09	U-10ca Mud Pit (1)	Mud Pit	U-10ca Crater Area	Oak Spring
10-09-11	U-10bb Mud Pit (1)	Mud Pit	U-10bb Crater Area	Oak Spring
10-09-12	U-10d Mud Pit (2)	Mud Pit	U-10d	Oak Spring
10-09-26	U-10aj Mud Pit (1)	Mud Pit	U-10aj	Oak Spring
19-09-21	U-19ac Mud Pit (2)	Mud Pit	U-19ac Crater Area	Dead Horse Flat
19-09-22	U-19q Mud Pit (2)	Mud Pit	U-19q Crater Area	Dead Horse Flat
19-09-23	U-19ai Mud Pit (1)	Mud Pit	U-19ai Crater Area	Dead Horse Flat
19-09-24	U-19t Mud Pit (2)	Mud Pit	U-19t Crater Area	Dead Horse Flat

CAU Number: **532 LLNL Preshot Mud Pits**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 7/27/2006

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
19-09-25	U-19e Mud Pit (1)	Mud Pit	U-19e Crater Area	Dead Horse Flat
20-09-12	U-20ah Mud Pit (1)	Mud Pit	U-20ah Crater Area	Silent Butte
20-09-13	U-20ar Mud Pit (1)	Mud Pit	U-20ar Crater Area	Silent Butte
20-09-14	U-20e Mud Pit (1)	Mud Pit	U-20e Crater Area	Silent Butte
20-09-15	U-20au Mud Pit (1)	Mud Pit	U-20au	Silent Butte
20-09-16	U-20ag Mud Pit (2)	Mud Pit	U-20ag Crater Area	Scrugham Peak
20-09-17	U-20af Mud Pit (2)	Mud Pit	U-20af Crater Area	Silent Butte
20-09-18	U-20g Mud Pit (1)	Mud Pit	U-20g Crater Area	Silent Butte
20-09-19	U-20ba Mud Pit (1)	Mud Pit	U-20ba	Thirsty Canyon
20-09-20	U-20n Mud Pit (1)	Mud Pit	U-20n Crater Area	Scrugham Peak
20-09-21	U-20c Mud Pit (2)	Mud Pit	U-20c Crater Area	Scrugham Peak
20-09-22	U-20v Mud Pit (1)	Mud Pit	U-20v Crater Area	Trail Ridge

CAU Number: **533 LLNL Postshot Mud Pits**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 7/27/2006

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	9/15/2005	7/19/2005	8/8/2005	8/8/2005	
Closure Report to State	7/31/2006	7/10/2006	7/27/2006	7/27/2006	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-09-27	U-2e PS #1A Mud Pit (1)	Mud Pit	U-2e PS #1A	Oak Spring
02-09-28	U-2bq #1 PS #1A Mud Pit (1)	Mud Pit	U-2bq #1 PS #1A	Oak Spring
02-09-29	U-2bq #2 PS #1A Mud Pit (1)	Mud Pit	U-2bq #2 PS #1A	Oak Spring
02-09-30	U-2dp PS #1A Mud Pit (1)	Mud Pit	U-2dp PS #1A Mud Pit (1)	Yucca Flat
02-09-31	U-2f PS #1 Mud Pit (1)	Mud Pit	U-2f Crater Area	Oak Spring
02-09-32	U-2ce PS #1A Mud Pit (1)	Mud Pit	U-2ce PS #1A	Rainier Mesa
02-09-33	U-2er PS #1A Covered Mud Pit (1)	Mud Pit	U-2er PS #1A	Oak Spring
02-09-34	U-2gg PS #2A Mud Pit (1)	Mud Pit	U-2gg PS #2A	Oak Spring
02-09-35	U-2fc PS #1A Mud Pit (1)	Mud Pit	U-2fc Crater Area	Oak Spring
02-09-36	U-2gf PS #1A Mud Pit (1)	Mud Pit	U-2gf Crater Area	Oak Spring
02-09-37	U-2q PS #1A Mud Pit (1)	Mud Pit	U-2q PS #1A	Yucca Flat
02-09-38	U-2ew PS #2A Mud Pit (1)	Mud Pit	U-2ew PS #2A	Yucca Flat
02-09-39	U-2ew PS #1A Mud Pit (1)	Mud Pit	U-2ew PS #1A	Yucca Flat

CAU Number: **533 LLNL Postshot Mud Pits**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 7/27/2006

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-09-40	U-2ge PS #1A Mud Pit (1)	Mud Pit	U-2ge PS #1A	Oak Spring
02-09-41	U-2ev PS #1A Mud Pit (1)	Mud Pit	U-2ev Crater Area	Oak Spring
02-09-42	U-2L PS #5 Mud Pit (1)	Mud Pit	U-2L PS #5	Oak Spring
02-09-43	U-2dc #6 PS #1A Mud Pit (1)	Mud Pit	U-2dc #6 PS #1A	Yucca Flat
02-09-50	U-2bz PS #1A Mud Pit (1)	Mud Pit	U-2bz PS #1A	
02-09-51	U-2bp #1 Zero Station Covered Mud Pit (1)	Mud Pit	U-2bp #1 Zero Station	Oak Spring
02-09-52	U-2dc #1 PS #1A Mud Pit (1)	Mud Pit	U-2dc #1 PS #1A	Yucca Flat
02-09-53	U-2bg PS #1A Mud Pit (1)	Mud Pit	U-2bg PS #1A	
02-09-54	U-2be PS #1A Mud Pit (1)	Mud Pit	U-2be PS #1A	
02-09-55	U-2L Mud Pit (1)	Mud Pit	U-2L	
02-09-56	U-2L PS #3 Mud Pit (1)	Mud Pit	U-2L PS #3	
04-09-14	U-4av PS #1A Covered Mud Pit (1)	Mud Pit	U-4av PS #1A	Yucca Flat
04-09-15	U-4am PS #1A Covered Mud Pit (1)	Mud Pit	U-4am PS #1A	Yucca Flat
09-09-24	U-9 ITS V-24 PS #1A Mud Pit (2)	Mud Pit	U-9 ITS V-24 PS #1A	Oak Spring
09-09-25	U-9 ITS V-27 PS #1A Mud Pit (1)	Mud Pit	U-9 ITS V-27 Crater Area	Oak Spring
09-09-26	U-9cv PS #1A Covered Mud Pit (1)	Mud Pit	U-9cv PS #1A	Yucca Flat
09-09-27	U-9yz-26 PS #1A Mud Pit (1)	Mud Pit	U-9yz-26 PS #1A	Oak Spring

CAU Number: **533 LLNL Postshot Mud Pits**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 7/27/2006

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
09-09-28	U-9bn PS #2A Mud Pit (1)	Mud Pit	U-9bn PS #2A	Yucca Flat
09-09-29	U-9 ITS X-28 PS #1A Mud Pit (1)	Mud Pit	U-9 ITS X-28 Crater Area	Oak Spring
09-09-30	U-9k PS #1 Mud Pit (1)	Mud Pit	U-9k Crater Area	Yucca Flat
09-09-31	U-9cr PS #1A Covered Mud Pit (1)	Mud Pit	U-9cr PS #1A	Oak Spring
09-09-32	U-9W-24.5 PS #1A Mud Pit (1)	Mud Pit	U-9W-24.5 PS #1A	Oak Spring
09-09-33	U-9cL PS #1A Mud Pit (1)	Mud Pit	U-9cl PS #1A	Yucca Flat
09-09-34	U-9bu PS #1A Mud Pit (1)	Mud Pit	U-9bu PS #1A	Yucca Flat
09-09-35	U-9bi #1 PS #1A Mud Pit (1)	Mud Pit	U-9bi #1 PS #1A	Yucca Flat
09-09-36	U-9cn PS #1A Mud Pit (1)	Mud Pit	U-9cn Crater Area	Yucca Flat
09-09-42	U-9bm PS #1A Mud Pit (1)	Mud Pit	U-9bm PS #1A	Yucca Flat
09-09-43	U-9bi #2 PS #1A Mud Pit (1)	Mud Pit	U-9bi #2 PS #1A	
09-09-44	U-9c PS #2 Mud Pit (1)	Mud Pit	U-9c	
10-09-13	U-10aq PS #1A Mud Pit (1)	Mud Pit	U-10aq PS #1A	Oak Spring
10-09-14	U-10bg PS #1A Covered Mud Pit (1)	Mud Pit	U-10bg PS #1A	Oak Spring
10-09-15	U-10ap #1 PS #1A Mud Pit (1)	Mud Pit	U-10ap #1 PS #1A	Oak Spring
10-09-16	U-10as PS #1A Mud Pit (1)	Mud Pit	U-10as PS #1A	Oak Spring
10-09-17	U-10a PS #2V Mud Pit (1)	Mud Pit	U-10a Crater Area	Oak Spring
10-09-18	U-10ap #3 PS #1A Mud Pit (1)	Mud Pit	U-10ap #3 PS #1A	Oak Spring

CAU Number: **533 LLNL Postshot Mud Pits**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 7/27/2006

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
10-09-19	U-10ax PS #1A Mud Pit (1)	Mud Pit	U-10ax PS #1A	Oak Spring
10-09-20	U-10ag PS #1A Mud Pit (1)	Mud Pit	U-10ag PS #1A	Oak Spring
10-09-21	U-10ar PS #1A Covered Mud Pit (1)	Mud Pit	U-10ar PS #1A	Oak Spring
19-09-26	U-19ai PS #1A Covered Mud Pit (1)	Mud Pit	U-19ai PS #1A	Dead Horse Flat
19-09-27	U-19zS PS #1D Covered Mud Pit (1)	Mud Pit	U-19zS PS #1D	Dead Horse Flat
19-09-28	U-19ac PS #1A Covered Mud Pit (1)	Mud Pit	U-19ac PS #1A	Dead Horse Flat
20-09-23	U-20i PS #1D Mud Pit (2)	Mud Pit	U-20i PS #1D	Silent Butte
20-09-24	U-20bb PS #1A Covered Mud Pit (1)	Mud Pit	U-20bb PS #1A	Scrugham Peak
20-09-25	U-20c PS #1D Mud Pit (1)	Mud Pit	U-20c PS #1D	Scrugham Peak
20-09-26	U-20bd PS #1A Mud Pit (1)	Mud Pit	U-20bd PS #1A	Silent Butte
20-09-27	U-20aj PS #1A Mud Pit (1)	Mud Pit	U-20aj PS #1A	Silent Butte
20-09-28	U-20an PS #1A Covered Mud Pit (1)	Mud Pit	U-20an PS #1A	Silent Butte
20-09-29	U-20v PS #1D Mud Pit (1)	Mud Pit	U-20v Crater Area	Trail Ridge
20-09-30	U-20ay PS #1A Covered Mud Pit (1)	Mud Pit	U-20ay PS #1A	Silent Butte
20-09-31	U-20aq PS #1A Covered Mud Pit (1)	Mud Pit	U-20aq PS #1A	Trail Ridge
20-09-32	U-20aL PS #1A Covered Mud Pit (1)	Mud Pit	U-20aL PS #1A	Silent Butte
20-09-33	U-20d PS #1D Mud Pit (1)	Mud Pit	U-20d PS #1D	Scrugham Peak
20-09-34	U-20e PS #1D Mud Pit (1)	Mud Pit	U-20e PS #1D	Silent Butte

CAU Number: **533 LLNL Postshot Mud Pits**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 7/27/2006

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
20-09-35	U-20ax PPS #1A Mud Pit (1)	Mud Pit	U-20ax PPS #1A	Scrugham Peak
20-09-36	U-20av PS #1A Mud Pit (1)	Mud Pit	U-20av PS #1A	Scrugham Peak
20-09-37	U-20n PS #1D Covered Mud Pit (1)	Mud Pit	U-20n PS #1D	Scrugham Peak

CAU Number: **534 Exploratory/Instrumentation Mud Pits**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 7/27/2006

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	9/15/2005	7/19/2005	8/8/2005	8/8/2005	
Closure Report to State	7/31/2006	7/10/2006	7/27/2006	7/27/2006	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
01-09-06	UE-1r Mud Pit (1)	Mud Pit	UE-1r	Yucca Flat
01-09-07	UE-1p Eleana Mud Pit (1)	Mud Pit	UE-1p Eleana	Yucca Flat
01-09-09	UE-1L Mud Pits (2)	Mud Pit	UE-1L	Tippipah Spring
02-09-44	UE-2co Mud Pit (1)	Mud Pit	U-2co Crater Area	Tippipah Spring
02-09-45	UE-2eu Mud Pit (1)	Mud Pit	U-2eu Crater Area	Oak Spring
02-09-46	UE-2ad Mud Pit (1)	Mud Pit	UE-2ad	Oak Spring
02-09-47	UE-2ac Mud Pit (1)	Mud Pit	UE-2ac	Oak Spring
03-09-30	UE-3Lj/Inst. Mud Pit (1)	Mud Pit	UE-3Lj/Inst.	Yucca Flat
04-09-16	UE-4af Mud Pit (1)	Mud Pit	UE-4af	Yucca Flat
04-09-17	UE-4aa Mud Pit (1)	Mud Pit	UE-4aa	Yucca Flat
04-09-18	UE-4ai Mud Pit (1)	Mud Pit	UE-4ai	Yucca Flat
04-09-19	U-4ao CDS Test Mud Pit (1)	Mud Pit	U-4ao CDS Tes	Yucca Flat
04-09-20	U-4t PS #2A Mud Pit (1)	Mud Pit	U-4t PS #2A	

CAU Number: **534 Exploratory/Instrumentation Mud Pits**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 7/27/2006

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
04-09-21	UE-4ac Mud Pit (1)	Mud Pit	UE-4ac	
05-09-02	RNM #1 Mud Pit (1)	Mud Pit	RNM #1	Frenchman Lake
05-09-03	UE-5n Mud Pits (2)	Mud Pit	UE-5n	Frenchman Lake
05-09-04	RNM #2s Mud Pit (2)	Mud Pit	RNM #2s	Frenchman Lake
06-09-04	UE-6e Mud Pit (2)	Mud Pit	UE-6e	Yucca Lake
07-09-27	UE-7k Mud Pit (1)	Mud Pit	UE-7k	Yucca Flat
08-09-05	UE-8o Mud Pit (1)	Mud Pit	UE-8o	Oak Spring
08-09-06	UE-8e #2 Mud Pit (1)	Mud Pit	UE-8e #2	Oak Spring
09-09-37	U-9 ITS UE-S-17 Mud Pit (1)	Mud Pit	U-9 ITS UE-S-17	Oak Spring
09-09-38	U-9 ITS UE-U-22 Mud Pit (1)	Mud Pit	U-9 ITS UE-U-22	Oak Spring
09-09-39	U-9 ITS UE-U-29 #2 Mud Pit (1)	Mud Pit	U-9 ITS T28 Crater Area	Oak Spring
09-09-40	U-9cu Grout Test Mud Pit (1)	Mud Pit	U-9cu Grout Test	Oak Spring
10-09-22	UE-10 ITS #2 Mud Pit (1)	Mud Pit	UE-10 ITS #2	Oak Spring
10-09-23	UE-10 ITS #3 Mud Pit (1)	Mud Pit	UE-10 ITS #3	Oak Spring
10-09-24	UE-10 ITS #1 Mud Pit (1)	Mud Pit	UE-10 ITS	Oak Spring
10-09-25	UE-10 ITS #6 Mud Pit (1)	Mud Pit	UE-10 ITS #6	Oak Spring
14-09-01	UE-14b Mud Pit (1)	Mud Pit	UE-14b	Mine Mountain
14-09-02	UE-14a Mud Pit (1)	Mud Pit	UE-14a	Mine Mountain

CAU Number: **534 Exploratory/Instrumentation Mud Pits**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 7/27/2006

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
17-09-01	UE-17f Eleana Mud Pit (2)	Mud Pit	UE-17f Eleana	Tippipah Spring
19-09-29	U-19g Sandia Inst. Mud Pit (1)	Mud Pit	U-19g Sandia Inst.	Silent Butte
19-09-30	UE-19h Mud Pit (2)	Mud Pit	UE-19h	Dead Horse Flat
20-09-38	UE-20d Mud Pit (1)	Mud Pit	U-20d Crater Area	Scrugham Peak
20-09-39	UE-20bh #1 Mud Pit (1)	Mud Pit	UE-20bh #1	Scrugham Peak
20-09-40	UE-20n #1 Mud Pit (1)	Mud Pit	UE-20bh #1	Scrugham Peak
20-09-41	UE-20ae Mud Pit (1)	Mud Pit	U-20ae Crater Area	Silent Butte
20-09-42	UE-20av Mud Pit (1)	Mud Pit	U-20av Crater Area	Scrugham Peak
20-09-43	UE-20p Mud Pit (1)	Mud Pit	U-20p Crater Area	Trail Ridge

CAU Number: **535 Mud Pits/Disposal Areas**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 7/27/2006

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	9/15/2005	7/19/2005	8/8/2005	8/8/2005	
Closure Report to State	7/31/2006	7/10/2006	7/27/2006	7/27/2006	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
01-09-04	UE-1L Mud Pit (1)	Mud Pit	UE-1L	Tippipah Spring
03-09-29	U-3me Mud Spill	Mud Pit	U-3 me	Yucca Flat
04-09-09	U-4aj Mud Spill	Mud Pit	U-4aj	Yucca Flat
04-09-11	U-4ac Mud Spill	Mud Pit	U-4ac	Yucca Flat
04-09-22	Unknown #11 Mud Pit/Disposal Area	Mud Pit	U-4i	
07-09-28	Unknown #12 Mud Pit/Disposal Area	Mud Pit	Near 7BY Road	Yucca Flat
07-09-29	Unknown #13 Mud Pit/Disposal Area	Mud Pit	U-7j PS #1D	Yucca Flat
10-09-10	U-10bh Mud Spill	Mud Pit	U-10bh	Oak Spring
19-09-31	Unknown #10 Mud Pit/Disposal Area	Mud Pit	Near U-19bg	Dead Horse Flat
19-09-32	Unknown #7 Covered Mud Pit/Disposal Area	Mud Pit	Near U-19e PS #1d	Dead Horse Flat
19-09-33	Unknown #8 Mud Pit/Disposal Area	Mud Pit	U-19c Crater Area	Dead Horse Flat
19-09-34	Unknown #9 Mud Pit/Disposal Area	Mud Pit	U-19c Crater Area	Dead Horse Flat

CAU Number: **535 Mud Pits/Disposal Areas**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 7/27/2006

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
20-09-44	Unknown #4 Mud Pit/Disposal Area	Mud Pit	Near U-20aa PS #1d	Silent Butte
20-09-45	Unknown #5 Mud Pit/Disposal Area	Mud Pit	Near U-20am	Silent Butte
20-09-46	Unknown #14 Mud Pit/Disposal Area	Mud Pit	Pahute Mesa Rd (east side)	Silent Butte

CAU Number: **536 Area 3 Release Site**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 8/17/2007

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	7/21/2003	6/26/2003	7/1/2003	7/1/2003	
CADD to State	12/31/2004	11/22/2004	12/20/2004	1/10/2005	
CAP to State	9/30/2005	8/25/2005	8/31/2005	8/31/2005	
Closure Report to State	9/30/2007	8/1/2007	8/17/2007	8/17/2007	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-44-02	Steam Jenny Discharge	Other Spill Site	Angle Road (east side)	Yucca Flat

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Appendix IV - Closed Corrective Action Units

CAU Number: **540 Spill Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 11/9/2006

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	12/31/2005	11/30/2005	12/27/2005	12/27/2005	
Closure Report to State	2/28/2007	10/19/2006	11/9/2006	11/9/2006	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-44-01	ER12-1 Well Site Release	Oil/Fuel Spills	ER12-1	Rainier Mesa
12-99-01	Oil Stained Dirt	Housekeeping Waste	B Tunnel	Rainier Mesa
19-25-02	Oil Spill	Oil/Fuel Spills	U-19av GZ	Silent Butte
19-25-04	Oil Spill	Oil/Fuel Spills	U-19q	Dead Horse Flat
19-25-05	Oil Spill	Oil/Fuel Spills	U-19av	Silent Butte
19-25-06	Oil Spill	Oil/Fuel Spills	U-19j	Dead Horse Flat
19-25-07	Oil Spill	Oil/Fuel Spills	U-19j	Dead Horse Flat
19-25-08	Oil Spills (3)	Oil/Fuel Spills	Area 19 Camp	Silent Butte
19-44-03	U-19bf Drill Site Release	Oil/Fuel Spills	U-19bf	Dead Horse Flat

CAU Number: **544 Cellars, Mud Pits, and Oil Spills**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 6/14/2011

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	8/30/2010	7/6/2010	7/16/2010	7/16/2010	
Closure Report to State	6/30/2011	6/8/2011	6/14/2011	6/14/2011	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-37-08	Cellar & Mud Pit	Sump (Cellar)	U-2cn	Tippipah Spring
02-37-09	Cellar & Mud Pit	Sump (Cellar)	U-2dc4a (Tyg-D)	Yucca Flat
07-09-01	Mud Pit	Mud Pit	U-7bi	Yucca Flat
09-09-46	U-9itsx20 PS #1A Mud Pit	Mud Pit	U-9itsx20	
10-09-01	Mud Pit	Mud Pit	U-10cb	Oak Spring
12-09-03	Mud Pit	Mud Pit	U-12e.14 PS #1	Rainier Mesa
19-09-01	Mud Pits (2)	Mud Pit	U-19ab	Dead Horse Flat
19-09-03	Mud Pit	Mud Pit	U-19ar	Dead Horse Flat
19-09-04	Mud Pit	Mud Pit	U-19ad	Dead Horse Flat
19-25-01	Oil Spill	Oil/Fuel Spills	U-19ab	Ammonia Tanks

CAU Number: **544 Cellars, Mud Pits, and Oil Spills**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 6/14/2011

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
19-99-06	Waste Spill	Other Spill Site	U-19j	Dead Horse Flat
20-09-01	Mud Pits (2)	Mud Pit	RSM 20 J 35	Trail Ridge
20-09-02	Mud Pit	Mud Pit	RSM 20 J 36	Trail Ridge
20-09-03	Mud Pit	Mud Pit	U-20p	Trail Ridge
20-09-04	Mud Pits (2)	Mud Pit	U-20p	Trail Ridge
20-09-06	Mud Pit	Mud Pit	U-20z	Silent Butte
20-09-07	Mud Pit	Mud Pit	U-20aw	Silent Butte
20-09-10	Mud Pit	Mud Pit	U-20bg	Scrugham Peak
20-25-04	Oil Spills	Oil/Fuel Spills	U-20aw	Silent Butte
20-25-05	Oil Spills	Oil/Fuel Spills	U-20be	Scrugham Peak

CAU Number: **548 Areas 9, 10, 18, 19, and 20 Housekeeping Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 8/20/2012

Use Restriction Information:

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	8/31/2012	8/9/2012	8/20/2012	8/20/2012	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
09-99-02	Material Piles (2)	Housekeeping Waste	U-9av	Oak Spring
09-99-04	Wax, Paraffin	Housekeeping Waste	U-9av	Oak Spring
09-99-05	Asbestos, Vermiculite	Housekeeping Waste	U-9av	Oak Spring
09-99-07	Tar Spill	Housekeeping Waste	U-9 ITS V-26	Oak Spring
10-22-02	Drums	Housekeeping Waste	U-10i	Oak Spring
10-22-05	Gas Block	Housekeeping Waste	U-10u	Oak Spring
10-22-07	Gas Block	Housekeeping Waste	U-10k	Oak Spring
10-22-34	Drum	Housekeeping Waste	U-10w	Oak Spring
10-22-38	Drum; Cable	Housekeeping Waste	Teapot Crater	Oak Spring
12-99-04	Epoxy Tar Spill	Housekeeping Waste	U-12g.03 CH 2	Rainier Mesa
12-99-08	Cement Spill	Housekeeping Waste	Area 12 Fire Station	Rainier Mesa
18-14-01	Transformers (3)	Housekeeping Waste	17 Camp	Ammonia Tanks
19-22-01	Drums	Housekeeping Waste	U-19ab	Dead Horse Flat
19-22-11	Gas Block (2)	Housekeeping Waste	U-19n	Silent Butte
19-44-01	Fuel Spill	Oil/Fuel Spills	U-19g	Dead Horse Flat

CAU Number: **548 Areas 9, 10, 18, 19, and 20 Housekeeping Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 8/20/2012

Use Restriction Information:

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
20-22-07	Drums (2)	Housekeeping Waste	U-20k	Trail Ridge
20-22-09	Drums (3)	Housekeeping Waste	U-20f	Silent Butte
20-22-14	Drums (2)	Housekeeping Waste	RSM J 24	Silent Butte
20-22-16	Drums (2)	Housekeeping Waste	U-20i	Silent Butte
20-24-09	Battery	Housekeeping Waste	U-20aw	Silent Butte

CAU Number: **555 Septic Systems**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 3/20/2007

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	2/28/2006	12/27/2005	1/9/2006	1/9/2006	
CADD/CR to State	4/30/2007	3/15/2007	3/20/2007	3/20/2007	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
01-59-01	Area 1 Camp Septic System	Septic System	SW Subdock Office Bldg 1-101	Tippipah Spring
03-59-03	Core Handling Building Septic System	Septic System	Bldg 850	Yucca Flat
06-20-05	Birdwell Dry Well	Injection Well	Well 3 Yard Birdwell Complex	Yucca Lake
06-59-01	Birdwell Septic System	Septic System	Well 3 Yard Birdwell Complex	Yucca Lake
06-59-02	National Cementers Septic System	Septic System	Well 3 Yard	Yucca Lake

CAU Number: **556 Dry Wells and Surface Release Points**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 9/17/2008

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP	3/31/2007	2/15/2007	2/26/2007	2/26/2007	
CADD/CR to State	9/30/2008	9/10/2008	9/17/2008	9/17/2008	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
06-20-04	National Cementers Dry Well	Injection Well	Well 3 Yard	Yucca Lake
06-99-09	Birdwell Test Hole	Other	Well 3 Yard Birdwell Complex	Yucca Lake
25-60-03	E-MAD Stormwater Discharge and Piping	Surface Release Point	E-MAD Complex	Jackass Flats
25-64-01	Vehicle Washdown and Drainage Pit	Decon Area	NE of F Road and G Road Intersection	Jackass Flats

CAU Number: **557 Spills and Tank Sites**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 5/14/2009

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	7/31/2008	7/3/2008	7/14/2008	7/14/2008	
CADD/CR to State	5/31/2009	5/1/2009	5/14/2009	5/14/2009	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
01-25-02	Fuel Spill	Oil/Fuel Spills	Shaker Plant	Tippipah Spring
03-02-02	Area 3 Subdock UST	Underground Storage Tank	Subdock Complex	Yucca Flat
06-99-10	Tar Spills	Other	South of Bldg CP-72	Yucca Lake
25-25-18	Train Maintenance Bldg 3901 Spill Site	Oil/Fuel Spills	E-MAD Complex	Jackass Flats

CAU Number: **560 Septic Systems**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 4/23/2010

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	5/31/2008	5/6/2008	5/12/2008	5/12/2008	
CADD/CR to State	4/30/2010	4/15/2010	4/23/2010	4/23/2010	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-51-01	Leach Pit	Underground Discharge Point	Area 3 Camp	Yucca Flat
06-04-02	Septic Tank	Septic Tank	N of Building CP-160	Yucca Lake
06-05-03	Leach Pit	Leachfield	East of Building CP-160	Yucca Lake
06-05-04	Leach Bed	Leachfield	East of Building CP-162	Yucca Lake
06-59-03	Building CP-400 Septic System	Septic System	Control Point Area	Yucca Lake
06-59-04	Office Trailer Complex Sewage Pond	Septic System	Near the Bulk Fuel Facility	Yucca Lake
06-59-05	Control Point Septic System	Septic System	CP Hill	Yucca Lake

CAU Number: **561 Waste Disposal Areas**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 9/28/2011

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	4/30/2009	7/21/2008	7/24/2008	7/24/2008	
CADD/CR to State	9/30/2011	9/22/2011	9/28/2011	9/28/2011	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
01-19-01	Waste Dump	Waste Disposal Site	East of Building 1-31.2e1	Yucca Flat
02-08-02	Waste Dump and Burn Area	Waste Dump	SE of Support Facilities in Area 2	Oak Spring
03-19-02	Debris Pile	Waste Disposal Site	East of U-3ee potential crater area	Yucca Flat
05-62-01	Radioactive Gravel Pile	Contaminated Soil Site	West of Gravel Gertie	Frenchman Lake
12-23-09	Radioactive Waste Dump	Rad Contamination Area		Rainier Mesa
22-19-06	Buried Waste Disposal Site	Waste Disposal Site	SE end of Camp Desert Rock	Point of Rocks
23-21-04	Waste Disposal Trenches	Waste Disposal Trench	NE of Building 23-160 in Area 23	Mercury
25-08-02	Waste Dump	Waste Dump	North of G Road between	Jackass Flats

CAU Number: **561 Waste Disposal Areas**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 9/28/2011

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
			RCP and R-MAD Complex	
25-23-21	Radioactive Waste Dump	Rad Contamination Area		Jackass Flats
25-25-19	Hydrocarbon Stains and Trench	Oil/Fuel Spills	SE of intersection of C and G Rds across from RCP	Jackass Flats

CAU Number: **562 Waste Systems**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 9/26/2012

Use Restriction Information:

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	5/31/2009	4/13/2009	4/28/2009	4/28/2009	
CADD to State	8/31/2010	8/5/2010	8/25/2010	8/25/2010	
CAP to State	5/9/2011	4/11/2011	5/16/2011	5/16/2011	
Closure Report to State	8/31/2012	8/20/2012	9/26/2012	9/26/2012	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-26-11	Lead Shot	Lead	Laborer's Storage Area	Oak Spring
02-44-02	Paint Spills and French Drain	Other Spill Site	Area 2 Camp Paint Shop	Oak Spring
02-59-01	Septic System	Septic System	Area 2 Base Camp	Oak Spring
02-60-01	Concrete Drain	Surface Release Point	South side of the 2C-56 Building	Oak Spring
02-60-02	French Drain	Surface Release Point	South side of Building T-518	Oak Spring
02-60-03	Steam Cleaning Drain	Surface Release Point	Area 2 Base Camp	Oak Spring
02-60-04	French Drain	Surface Release Point	East of the concrete foundation to Building 2C-6A	Oak Spring
02-60-05	French Drain	Surface Release Point	Northeast corner of Building	Oak Spring

CAU Number: **562 Waste Systems**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 9/26/2012

Use Restriction Information:

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
			2C-97	
02-60-06	French Drain	Surface Release Point	Southwest corner of Building T-218	Oak Spring
02-60-07	French Drain	Surface Release Point	Associated with Building 997633 (BIN #1)	Oak Spring
23-60-01	Mud Trap Drain and Outfall	Surface Release Point	South End DoD Compound	Mercury
23-99-06	Grease Trap	Other	Building 109	Mercury
25-60-04	Building 3123 Outfalls	Surface Release Point	Building 3123	Jackass Flats

CAU Number: **563 Septic Systems**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 3/4/2010

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP	2/28/2007	1/23/2007	1/30/2007	1/30/2007	
CADD to State	3/31/2008	2/29/2008	3/7/2008	3/7/2008	
CAP to State	3/31/2009	3/17/2009	3/26/2009	3/26/2009	
Closure Report to State	3/31/2010	2/17/2010	3/4/2010	3/4/2010	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-04-02	Area 3 Subdock Septic Tank	Septic System	South 3-03 Road	Yucca Flat
03-59-05	Area 3 Subdock Cesspool	Septic System	South 3-03 Road	Yucca Flat
12-59-01	Drilling/Welding Shop Septic Tanks	Septic Tank	Near E-Tunnel and Rainer Mesa Rds	Rainier Mesa
12-60-01	Drilling/Welding Shop Outfalls	Surface Release Point	Near E-Tunnel and Rainer Mesa Rds	Rainier Mesa

CAU Number: **565 Stored Samples**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 12/24/2007

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	9/30/2006	8/30/2006	9/7/2006	9/7/2006	
CADD/CR to State	1/11/2008	12/18/2007	12/24/2007	12/24/2007	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
26-99-04	Ground Zero Soil Samples	Other	Building 26-2106	Skull Mountain

CAU Number: **1010 Shoshone Peak**

Owner: NNSA / Industrial Sites - DP

Date CAU Transferred to Appendix IV: 10/23/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

Post-Closure Monitoring has been removed.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
PRL 454	Weathered Diesel Fuel	Oil/Fuel Spills	Shoshone Peak Microwave Relay Annex Site	Topopah Spring

CAU Number: **4 Archived - Area 6 Equipment Yard Landfill**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **5 Landfills**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 3/7/2006

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	6/30/2003	5/30/2002	6/25/2002	6/25/2002	
CADD to State	10/31/2003	10/24/2003	11/3/2003	11/3/2003	
CAP to State	11/1/2004	8/2/2004	8/6/2004	8/6/2004	
Closure Report to State	2/28/2006	2/8/2006	3/7/2006	3/7/2006	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
05-15-01	Sanitary Landfill	Sanitary Landfill	5-05 Road	Frenchman Lake
05-16-01	Landfill	Waste Dump	Building 5-7	Frenchman Lake
06-08-01	Landfill	Waste Dump	Equipment Yard	Yucca Lake
06-15-02	Sanitary Landfill	Sanitary Landfill	Yucca Lake	Yucca Lake
06-15-03	Sanitary Landfill; Burn Pit	Sanitary Landfill	Yucca Lake	Yucca Lake
12-15-01	Sanitary Landfill	Sanitary Landfill	Area 12 Camp	Rainier Mesa

CAU Number: **5 Landfills**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 3/7/2006

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
20-15-01	Landfill	Sanitary Landfill	RSM 20 A 125	Scrugham Peak
23-15-03	Disposal Site	Waste Dump	Mercury Bypass	Camp Desert Rock

CAU Number: **6 Archived - DOE/DP Closed Landfill Area 6**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **7 Archived - Area 12 Camp Landfill**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **8 Archived - Area 20 Buckboard Mesa Road Landfill**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **9 Archived - Area 6 Yucca Lake Construction Landfill**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **10 Archived - Prior to May 1996**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **11 Area 2 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 4/19/1994

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	3/7/1994	N/A	4/19/1994	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-22-01	Drums; Batteries	Housekeeping Waste	U-2bL	Oak Spring
02-24-03	Batteries; Drum	Housekeeping Waste	U-2j	Oak Spring
02-24-04	Battery	Housekeeping Waste	Pull Test Facility	Oak Spring
02-26-05	Lead Brick	Housekeeping Waste	U-2eh	Oak Spring

CAU Number: **12 Area 10 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 4/25/1994

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	4/25/1994	N/A	3/21/1994	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
10-22-11	Drum	Housekeeping Waste	U-10aj F	Oak Spring
10-22-24	Drum	Housekeeping Waste	U-10am #1	Oak Spring
10-22-26	Drum	Housekeeping Waste	Stagecoach Crater	Oak Spring
10-22-27	Drum	Housekeeping Waste	U-10q	Oak Spring
10-24-03	Batteries (3)	Housekeeping Waste	Sedan	Oak Spring
10-24-04	Batteries (3)	Housekeeping Waste	U-10ar	Oak Spring

CAU Number: **13 Area 10 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 5/4/1994

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	3/28/1994	N/A	5/4/1994	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
10-24-01	Battery	Housekeeping Waste	U-10be	Oak Spring
10-24-02	Batteries (12)	Housekeeping Waste	U-10au	Oak Spring
10-24-05	Battery	Housekeeping Waste	U-10a	Oak Spring
10-24-06	Battery	Housekeeping Waste	Area 10 Bunker	Oak Spring
10-24-07	Battery	Housekeeping Waste	U-10x	Oak Spring
10-24-09	Batteries (2)	Housekeeping Waste	U-10e	Oak Spring
10-24-12	Battery	Housekeeping Waste	U-10ap #1	Oak Spring
10-26-01	Lead Bricks (4)	Housekeeping Waste	Area 10 Bunker	Oak Spring

CAU Number: **14 Area 2 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 5/12/1994

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	3/14/1994	N/A	5/12/1994	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-22-10	Drum	Housekeeping Waste	U-2dk	Yucca Flat
02-24-01	Battery	Housekeeping Waste	Blockhouse 2-300	Oak Spring
02-24-08	Batteries (2)	Housekeeping Waste	U-2dw	Yucca Flat
02-26-04	Lead Weights	Housekeeping Waste	U-2er	Oak Spring
02-26-06	Lead Sheets	Housekeeping Waste	U-2bf	Oak Spring

CAU Number: **15 Area 10 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 5/12/1994

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	4/11/1994	N/A	5/12/1994	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
10-22-01	Drum	Housekeeping Waste	RSM 10 C 1	Oak Spring
10-22-09	Drums (4)	Housekeeping Waste	U-10aj F	Oak Spring

CAU Number: **16 Area 12 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 5/12/1994

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	4/20/1994	N/A	5/12/1994	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-22-07	Drums (3)	Housekeeping Waste	U-12b.07-1	Rainier Mesa
12-24-02	Batteries (4)	Housekeeping Waste	U-12b R-9	Rainier Mesa
12-24-03	Battery	Housekeeping Waste	RSM 12 H 5	Rainier Mesa
12-24-08	Battery	Housekeeping Waste	RSM 12 R 15	Rainier Mesa
12-24-09	Battery	Housekeeping Waste	Stockade Wash Road	Rainier Mesa
12-24-10	Batteries (2)	Housekeeping Waste	Stockade Wash Road	Rainier Mesa

CAU Number: **17 Area 2 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 5/20/1994

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	5/4/1994	N/A	5/20/1994	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-22-03	Drum	Housekeeping Waste	U-2bg #2	Oak Spring
02-22-05	Drum	Housekeeping Waste	U-2bf	Oak Spring
02-22-07	Drums (2)	Housekeeping Waste	U-2q/ U-2at	Yucca Flat
02-24-02	Batteries	Housekeeping Waste	Blockhouse 2-353	Oak Spring
02-24-07	Batteries	Housekeeping Waste	U-2ey	Oak Spring

CAU Number: **18 Area 6 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 5/20/1994

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	4/25/1994	N/A	5/20/1994	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
06-22-06	Drum	Housekeeping Waste	CP-1 Helipad	Yucca Lake
06-22-15	Drums (2)	Housekeeping Waste	CP-40	Yucca Lake

CAU Number: **19 Area 10 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 5/20/1994

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	4/25/1994	N/A	5/20/1994	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
10-22-14	Drum	Housekeeping Waste	U-10aj F	Oak Spring

CAU Number: **20 Area 2 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 8/15/1994

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	5/27/1994	N/A	8/15/1994	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-22-09	Drum	Housekeeping Waste	U-2dt	Yucca Flat
02-99-08	Gas Can in Mud Pit	Housekeeping Waste	U-2dp PS #1	Yucca Flat

CAU Number: **21 Area 3 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 8/15/1994

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	5/16/1994	N/A	8/15/1994	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-22-11	Drum	Housekeeping Waste	U-3hj	Yucca Flat
03-22-21	Drum	Housekeeping Waste	U-3mh	Paiute Ridge
03-22-27	Drums (2)	Housekeeping Waste	U-3me	Yucca Flat
03-22-32	Drum/Bucket	Housekeeping Waste	U-3ba	Yucca Flat
03-24-15	Battery	Housekeeping Waste	U-3la	Yucca Flat
03-99-16	Gas Cylinder	Housekeeping Waste	U-3mf PS #2A	Yucca Flat

FFACO
Appendix IV - Closed Corrective Action Units

CAU Number: **22 Area 6 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 8/15/1994

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	5/16/1994	N/A	8/15/1994	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
06-22-07	Bucket	Housekeeping Waste	Yucca Lake	Yucca Lake
06-22-11	Drum	Housekeeping Waste	3-12 Road	Yucca Lake
06-22-21	Drum	Housekeeping Waste	U-6g	Yucca Lake
06-22-26	Drums	Housekeeping Waste	CP Press Stands	Yucca Lake
06-26-01	Lead Bricks	Housekeeping Waste	Tweezer Road	Yucca Lake

CAU Number: **23 Area 12 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 8/15/1994

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	5/16/1994	N/A	8/15/1994	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-22-06	Bucket	Housekeeping Waste	U-12b.04A Vent	Rainier Mesa

CAU Number: **24 Area 3 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 8/25/1994

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	5/16/1994	N/A	8/25/1994	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-22-36	Buckets (2)	Housekeeping Waste	Bunker 3-300	Yucca Flat
03-24-11	Battery	Housekeeping Waste	U-3kz	Yucca Flat

FFACO
Appendix IV - Closed Corrective Action Units

CAU Number: **25 Area 6 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 8/25/1994

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	5/16/1994	N/A	8/25/1994	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
06-22-10	Drum	Housekeeping Waste	Yucca Lake	Yucca Lake
06-22-12	Drum	Housekeeping Waste	Well 3 B	Yucca Lake
06-22-13	Trash Container	Housekeeping Waste	Well 3 Yard	Yucca Lake
06-22-14	Drum	Housekeeping Waste	Well 3 B	Yucca Lake
06-22-18	Drum	Housekeeping Waste	Yucca Lake, east side	Yucca Lake
06-22-19	Drum	Housekeeping Waste	Yucca Lake, east side	Yucca Lake
06-22-23	Drum; Debris	Housekeeping Waste	Well 3 Yard	Yucca Lake
06-22-28	Drum	Housekeeping Waste	Yucca Airstrip	Yucca Lake
06-22-29	Drums (3)	Housekeeping Waste	Well 3 Yard	Yucca Lake
06-22-33	Drum	Housekeeping Waste	CP-2	Yucca Lake
06-22-38	Drums (2)	Housekeeping Waste	Well 3 Yard	Yucca Lake

CAU Number: **26 Area 2 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/15/1994

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	4/25/1994	N/A	12/15/1994	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-22-08	Drum	Housekeeping Waste	U-2bg	Oak Spring

CAU Number: **27 Area 6 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/15/1994

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	5/16/1994	N/A	12/15/1994	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
06-22-24	Drums (7)	Housekeeping Waste	Well 3 Yard	Yucca Lake

CAU Number: **28 Area 10 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/15/1994

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	5/16/1994	N/A	12/15/1994	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
10-22-08	Drums (2)	Housekeeping Waste	U-10L	Oak Spring

CAU Number: **29 Area 27 Explosive Ordnance Disposal (EOD)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/9/1994

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	11/21/1994	N/A	12/9/1994	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
27-19-01	Explosive Disposal Site	Waste Disposal Site	EOD Area	Cane Spring

CAU Number: **35 Archived - Prior to May 1996**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **45 Area 2 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 5/10/1996

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	3/7/1994	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-24-05	Batteries (2)	Housekeeping Waste	U-2fg	Oak Spring

CAU Number: **46 Area 2 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 4/4/1996

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	4/11/1995	N/A	4/4/1996	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-26-03	Lead Brick; Sheets; Pieces	Housekeeping Waste	Blockhouse 2-353	Oak Spring

CAU Number: **47 Area 1 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 10/25/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	6/20/1994	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
01-22-03	Drums	Housekeeping Waste	UE-1r Water Well	Yucca Flat
01-22-04	Drum	Housekeeping Waste	U-1e	Yucca Flat
01-24-01	Batteries	Housekeeping Waste	Area 1 Camp	Tippipah Spring
01-24-02	Batteries	Housekeeping Waste	RSM O-39	Yucca Flat
01-24-04	Battery	Housekeeping Waste	U-1e Drill Hole	Yucca Flat
01-99-02	Solvent Cans	Housekeeping Waste	Vault 1-21	Yucca Flat

CAU Number: **48 Area 3 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 10/25/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	6/20/1994	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-22-13	Drum	Housekeeping Waste	U-3di	Yucca Flat
03-22-15	Drum	Housekeeping Waste	U-3jv	Yucca Flat
03-22-23	Drums	Housekeeping Waste	U-3ev-2 Shaft	Paiute Ridge
03-22-38	Drum/Cans	Housekeeping Waste	U-3eu	Yucca Flat
03-22-39	Gas Can	Housekeeping Waste	U-3ee/Eco. Study	Yucca Flat
03-22-42	Drums; Buckets	Housekeeping Waste	Area 3 Subdock	Yucca Flat
03-22-43	Drums; Buckets	Housekeeping Waste	Area 3 Subdock	Yucca Flat
03-24-02	Battery	Housekeeping Waste	U-3hj	Yucca Flat
03-24-03	Batteries/Bucket/Drum	Housekeeping Waste	U-3dg	Yucca Flat
03-24-04	Batteries	Housekeeping Waste	U-3kp	Yucca Flat
03-24-05	Batteries (2)	Housekeeping Waste	U-3ev-3 Shaft	Paiute Ridge
03-24-06	Batteries	Housekeeping Waste	U-3by	Yucca Flat
03-24-07	Battery	Housekeeping Waste	U-3jf	Yucca Flat
03-24-12	Battery; Buckets; Can	Housekeeping Waste	U-3kz	Yucca Flat
03-24-16	Batteries (2)	Housekeeping Waste	U-3cv	Yucca Flat

CAU Number: **48 Area 3 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 10/25/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-24-17	Battery Pack	Housekeeping Waste	U-3bq	Yucca Flat
03-24-18	Batteries	Housekeeping Waste	Area 3 Subdock	Yucca Flat
03-24-19	Battery	Housekeeping Waste	Area 3 Subdock	Yucca Flat

CAU Number: **49 Area 4 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 10/25/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	6/20/1994	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
04-22-01	Drums; Piping	Housekeeping Waste	U-4as	Yucca Flat
04-22-02	Drums	Housekeeping Waste	Test Well D	Yucca Flat
04-22-06	Drum	Housekeeping Waste	U-4as	Yucca Flat
04-24-01	Batteries; Drum	Housekeeping Waste	U-4L	Yucca Flat
04-24-02	Batteries (2)	Housekeeping Waste	Test Well D	Yucca Flat
04-24-03	Battery	Housekeeping Waste	U-4au	Yucca Flat
04-24-04	Batteries	Housekeeping Waste	U-4at	Yucca Flat
04-24-05	Batteries (2)	Housekeeping Waste	U-4j PS #1A	Yucca Flat
04-24-06	Battery	Housekeeping Waste	U-4c	Yucca Flat
04-24-07	Battery	Housekeeping Waste	Building 4-352	Yucca Flat
04-24-11	Battery	Housekeeping Waste	Tippipah Highway	Rainier Mesa
04-26-01	Lead Bricks	Housekeeping Waste	U-4i PS #1A	Yucca Flat

FFACO
Appendix IV - Closed Corrective Action Units

CAU Number: **50 Area 5 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 10/25/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	6/20/1994	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
05-22-02	Drums	Housekeeping Waste	Old Mercury Highway	Mercury
05-22-03	Drum	Housekeeping Waste	RNM 2s Well	Frenchman Lake
05-22-09	Drum	Housekeeping Waste	RSM 5 D 10	Frenchman Lake
05-22-10	Drum	Housekeeping Waste	Booster Station #4	Mercury
05-22-11	Containers	Housekeeping Waste	Well 5B	Frenchman Lake
05-22-12	Drum	Housekeeping Waste	Well 5B	Frenchman Lake
05-22-16	Drum	Housekeeping Waste	GMX Facility	Frenchman Lake
05-22-18	Drum	Housekeeping Waste	Booster Station #4	Mercury

CAU Number: **51 Area 7 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 10/25/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	6/20/1994	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
07-24-06	Battery	Housekeeping Waste	U-7e	Yucca Flat

CAU Number: **52 Area 18 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	1/13/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
18-01-03	Drum used as AST	Housekeeping Waste	17 Camp Generator Shack	Ammonia Tanks

CAU Number: **53 Area 22 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	1/13/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
22-19-01	Trash Dump	Waste Disposal Site	Weather Station Rock	Point of Rocks

CAU Number: **54 Area 3 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	1/13/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-22-05	Drum	Housekeeping Waste	U-3Lc	Yucca Lake

CAU Number: **55 Area 4 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	1/13/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
04-22-03	Drums	Housekeeping Waste	Bunker 4-300	Yucca Flat

FFACO
Appendix IV - Closed Corrective Action Units

CAU Number: **56 Area 5 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	1/13/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
05-22-05	Drum	Housekeeping Waste	Building F3-16b	Frenchman Lake
05-22-08	Drum	Housekeeping Waste	RNM 2s Well	Frenchman Lake
05-22-19	Drum	Housekeeping Waste	Gravel Gertie	Frenchman Lake
05-22-25	Drum	Housekeeping Waste	Gravel Gertie	Frenchman Lake
05-22-26	Drums (2)	Housekeeping Waste	Well 5B	Frenchman Lake
05-22-29	Drum	Housekeeping Waste	Well 5B	Frenchman Lake
05-22-33	Bucket	Housekeeping Waste	Cambric Ditch	Frenchman Lake
05-22-34	Buckets	Housekeeping Waste	Frenchman Lake	Frenchman Lake
05-22-35	Drum	Housekeeping Waste	Frenchman Lake	Frenchman Lake
05-24-01	Batteries (12)	Housekeeping Waste	Bunker F-370	Frenchman Lake
05-24-03	Battery	Housekeeping Waste	Gate 200	Mercury
05-24-04	Batteries (2)	Housekeeping Waste	5B Pond	Frenchman Lake
05-24-05	Battery	Housekeeping Waste	5-01 Road	Frenchman Lake

CAU Number: **57 Area 6 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	1/13/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
06-22-20	Drum	Housekeeping Waste	Yucca Lake	Yucca Lake
06-22-27	Drum	Housekeeping Waste	CP-50	Yucca Lake
06-24-01	Batteries (2)	Housekeeping Waste	RadSafe Trailer	Yucca Lake
06-24-02	Battery	Housekeeping Waste	U-6e	Yucca Lake
06-26-02	Lead Sheets; Brick	Housekeeping Waste	CP-50	Yucca Lake

CAU Number: **58 Area 7 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	1/13/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
07-22-03	Drums; Buckets	Housekeeping Waste	U-7bk	Yucca Flat
07-22-04	Buckets	Housekeeping Waste	U-7bh	Yucca Flat
07-22-05	Bucket	Housekeeping Waste	U-7bh	Yucca Flat
07-22-06	Buckets	Housekeeping Waste	UE-7L	Yucca Flat
07-22-07	Drum	Housekeeping Waste	U-7an	Yucca Flat
07-22-08	Drum	Housekeeping Waste	U-7bu	Yucca Flat
07-22-10	Drums (2)	Housekeeping Waste	UE-7ns	Yucca Flat
07-24-04	Batteries (3)	Housekeeping Waste	UE-7ns	Yucca Flat

CAU Number: **59 Area 8 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	1/13/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
08-22-02	Drum	Housekeeping Waste	U-8m	Oak Spring
08-22-03	Drums (2)	Housekeeping Waste	U-8d	Oak Spring
08-24-01	Batteries (2)	Housekeeping Waste	8-2 Substation	Oak Spring

FFACO
Appendix IV - Closed Corrective Action Units

CAU Number: **60 Area 9 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	1/13/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
09-22-04	Drum	Housekeeping Waste	U-9bu	Yucca Flat
09-22-10	Drums (2)	Housekeeping Waste	U-9x	Yucca Flat
09-22-11	Drums (4)	Housekeeping Waste	U-9bn	Yucca Flat
09-22-12	Drum	Housekeeping Waste	U-9bj	Yucca Flat
09-22-14	Drums (5)	Housekeeping Waste	9-356 Bunker	Yucca Flat
09-24-01	Battery	Housekeeping Waste	9-300 Bunker	Yucca Flat
09-24-03	Battery	Housekeeping Waste	U-9cv	Yucca Flat
09-26-01	Lead Brick	Housekeeping Waste	9-300 Bunker	Yucca Flat

CAU Number: **61 Area 11 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	1/13/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
11-22-04	Drums (3), Buckets (11)	Housekeeping Waste	Tweezer Facility	Plutonium Valley
11-22-06	Drums; Buckets; Battery	Housekeeping Waste	Tweezer Facility	Plutonium Valley

CAU Number: **62 Area 14 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	1/13/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
14-24-01	Battery	Housekeeping Waste	RSM SM 14-9	Mine Mountain

CAU Number: **63 Area 15 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	1/13/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
15-22-02	Drums (8)	Housekeeping Waste	U-15e/Blower Shaft	Oak Spring
15-22-07	Drum	Housekeeping Waste	Climax Hoist	Oak Spring
15-22-08	Drum, Gas Can	Housekeeping Waste	Climax Hoist Dump	Oak Spring
15-22-10	Drums (2)	Housekeeping Waste	Climax Hoist	Oak Spring
15-22-11	Drum	Housekeeping Waste	EPA Farm	Oak Spring
15-22-12	Drum	Housekeeping Waste	Climax Hoist	Oak Spring
15-22-13	Drum	Housekeeping Waste	Climax Hoist	Oak Spring
15-22-14	Drum	Housekeeping Waste	Tub Springs	Oak Spring
15-22-15	Drums (3)	Housekeeping Waste	EPA Farm	Oak Spring
15-22-17	Drum	Housekeeping Waste	Climax Hoist	Oak Spring
15-22-19	Drums (2)	Housekeeping Waste	Climax Hoist	Oak Spring
15-22-20	Drums (5)	Housekeeping Waste	Climax Hoist	Oak Spring
15-22-21	Drums (2)	Housekeeping Waste	Climax Hoist	Oak Spring
15-22-23	Gas Cans	Housekeeping Waste	RSM G 7	Oak Spring
15-22-24	Drum	Housekeeping Waste	RSM G 7	Oak Spring

CAU Number: **63 Area 15 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
15-22-25	Drum	Housekeeping Waste	Climax Hoist	Oak Spring
15-22-27	Drums (3)	Housekeeping Waste	Climax Hoist	Oak Spring
15-24-02	Batteries (2)	Housekeeping Waste	Climax Hoist	Oak Spring
15-24-03	Battery	Housekeeping Waste	Climax Hoist	Oak Spring
15-24-04	Battery; Bucket	Housekeeping Waste	Climax Mine	Oak Spring
15-24-05	Batteries (2)	Housekeeping Waste	Climax Hoist	Oak Spring
15-24-06	Battery	Housekeeping Waste	RSM 15 G 5	Oak Spring
15-26-01	Lead Bricks	Housekeeping Waste	Climax Hoist	Oak Spring

CAU Number: **64 Area 16 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	1/13/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
16-22-05	Drums (9)	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-06	Drum	Housekeeping Waste	Area 16 Powerline Road	Tippipah Spring
16-22-13	Drum	Housekeeping Waste	Area 16 Camp	Tippipah Spring
16-22-21	Drum, Can	Housekeeping Waste	Area 16 Camp	Tippipah Spring
16-24-06	Batteries (2)	Housekeeping Waste	Area 16 Camp	Tippipah Spring
16-24-07	Battery	Housekeeping Waste	Area 16 Camp	Tippipah Spring

CAU Number: **65 Area 17 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	1/13/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
17-22-01	Drum	Housekeeping Waste	RSM 12 M 191	Rainier Mesa
17-22-02	Drum	Housekeeping Waste	RSM 12 M 191	Rainier Mesa
17-22-03	Drum	Housekeeping Waste	RSM 12 M 191	Rainier Mesa

CAU Number: **66 Area 18 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	1/13/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
18-22-03	Drums (2)	Housekeeping Waste	UE-18r	Scrugham Peak
18-22-07	Drums (3)	Housekeeping Waste	U-18a Danny Boy	Buckboard Mesa
18-22-11	Drum	Housekeeping Waste	17 Camp Gas Station	Ammonia Tanks
18-22-15	Bucket	Housekeeping Waste	17 Camp	Ammonia Tanks
18-22-16	Bucket	Housekeeping Waste	17 Camp	Ammonia Tanks
18-22-18	Drums (8)	Housekeeping Waste	Well #8	Ammonia Tanks
18-22-20	Drum	Housekeeping Waste	17 Camp Gas Station	Ammonia Tanks
18-22-23	Drum	Housekeeping Waste	17 Camp	Ammonia Tanks
18-24-06	Batteries (4)	Housekeeping Waste	U-18d Sulky	Buckboard Mesa
18-24-07	Batteries (3)	Housekeeping Waste	17 Camp Gas Station	Ammonia Tanks
18-24-08	Battery	Housekeeping Waste	17 Camp	Ammonia Tanks
18-24-09	Battery	Housekeeping Waste	17 Camp	Ammonia Tanks

CAU Number: **67 Area 19 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	1/13/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
19-22-06	Drums (2)	Housekeeping Waste	U-19au	Dead Horse Flat
19-22-07	Drum, Bucket	Housekeeping Waste	U-19aa	Ammonia Tanks
19-22-09	Drum	Housekeeping Waste	U-19ak	Dead Horse Flat
19-22-10	Drum	Housekeeping Waste	RSM P 55	Ammonia Tanks
19-22-14	Drums (7)	Housekeeping Waste	19-15 Substation	Dead Horse Flat
19-22-20	Drum	Housekeeping Waste	UE-19m	Dead Horse Flat
19-22-21	Drum	Housekeeping Waste	U-19g	Silent Butte
19-22-22	Drum	Housekeeping Waste	U-19ar	Dead Horse Flat
19-24-02	Battery	Housekeeping Waste	U-19ax	Dead Horse Flat
19-24-03	Battery	Housekeeping Waste	U-19au	Silent Butte
19-24-04	Battery	Housekeeping Waste	U-19av	Silent Butte
19-24-06	Batteries (2)	Housekeeping Waste	U-19aa	Ammonia Tanks
19-26-01	Lead Ingot	Housekeeping Waste	U-19av	Silent Butte

CAU Number: **68 Area 20 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	1/13/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
20-22-01	Drums (2)	Housekeeping Waste	U-20m	Trail Ridge
20-22-11	Drum	Housekeeping Waste	U-20ax	Scrugham Peak
20-22-15	Drum	Housekeeping Waste	U-20af	Silent Butte
20-22-19	Drum	Housekeeping Waste	U-20ab	Silent Butte
20-22-22	Drum	Housekeeping Waste	U-20b	Silent Butte
20-22-24	Drums	Housekeeping Waste	U-20aw	Silent Butte
20-24-02	Battery	Housekeeping Waste	U-20p	Trail Ridge
20-24-08	Battery	Housekeeping Waste	U-20ao	Scrugham Peak

CAU Number: **69 Area 23 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	1/13/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
23-24-01	Batteries (2)	Housekeeping Waste	Building 503 Parking	Mercury
23-24-02	Battery	Housekeeping Waste	Building 155	Camp Desert Rock
23-26-01	Lead Brick	Housekeeping Waste	Quonset Hut, Gate 20	Mercury

CAU Number: **70 Area 25 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	1/13/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-22-05	Drum of Steel Balls	Housekeeping Waste	Building 3152	Jackass Flats
25-24-01	Batteries (12)	Housekeeping Waste	Test Cell C	Jackass Flats
25-24-02	Batteries (6)	Housekeeping Waste	Building 3219	Jackass Flats
25-24-03	Batteries (56 Locomotive)	Housekeeping Waste	Motor Drive Building	Jackass Flats
25-24-04	Batteries (3)	Housekeeping Waste	Engine Test Stand 1	Jackass Flats
25-24-05	Batteries (8)	Housekeeping Waste	Building 3219	Jackass Flats
25-24-06	Batteries (31)	Housekeeping Waste	Test Cell C Building	Jackass Flats
25-24-07	Batteries (26)	Housekeeping Waste	Test Cell A	Jackass Flats
25-24-08	Batteries (2)	Housekeeping Waste	E-MAD Facility	Jackass Flats
25-24-09	Batteries (2)	Housekeeping Waste	R-MAD Facility	Skull Mountain
25-24-10	Batteries (6)	Housekeeping Waste	E-MAD Facility	Jackass Flats
25-24-12	Batteries (2)	Housekeeping Waste	R-MAD Facility	Skull Mountain
25-26-01	Lead	Housekeeping Waste	Test Cell A	Jackass Flats
25-26-04	Lead Bricks	Housekeeping Waste	Test Cell A	Jackass Flats
25-26-05	Lead Bricks (175)	Housekeeping Waste	Test Cell C	Jackass Flats

CAU Number: **70 Area 25 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-26-07	Lead Bricks (172)	Housekeeping Waste	Test Cell C	Jackass Flats
25-26-09	Lead Bricks (4)	Housekeeping Waste	Engine Test Stand 1	Jackass Flats
25-26-11	Lead Bricks (30)	Housekeeping Waste	E-MAD Facility	Jackass Flats
25-26-12	Lead Bricks (339)	Housekeeping Waste	E-MAD Facility	Jackass Flats
25-26-13	Lead Shot	Housekeeping Waste	R-MAD Facility	Skull Mountain
25-26-14	Lead Bricks (10)	Housekeeping Waste	R-MAD Facility	Skull Mountain
25-26-16	Lead Bricks and Sheets	Housekeeping Waste	R-MAD Facility	Skull Mountain
25-26-17	Lead Bricks and Sheets	Housekeeping Waste	R-MAD Facility	Skull Mountain
25-26-18	Lead Shot	Housekeeping Waste	R-MAD Facility	Skull Mountain
25-26-19	Lead Bricks (25)	Housekeeping Waste	Building 4919	Jackass Flats
25-26-20	Lead Bricks (52)	Housekeeping Waste	E-MAD Facility	Jackass Flats
25-26-21	Lead Bricks (3)	Housekeeping Waste	Engine Test Stand 1	Jackass Flats
25-26-22	Lead Sheets (2)	Housekeeping Waste	Building 2105	Skull Mountain

CAU Number: **71 Area 30 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	1/13/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
30-24-01	Battery	Housekeeping Waste	40 Mile Canyon	Buckboard Mesa

CAU Number: **72 Area 26 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	6/15/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
26-26-01	Lead Bricks (25)	Housekeeping Waste	Building 2105	Skull Mountain

CAU Number: **73 Area 19 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	6/15/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
19-29-01	Concrete Hardener (5 bags)	Housekeeping Waste	U-19ay PS #1A	Dead Horse Flat

CAU Number: **74 Area 25 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	6/15/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-29-10	Chemicals (paint and oil)	Housekeeping Waste	E-MAD Facility	Jackass Flats

CAU Number: **75 Area 1 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	6/15/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
01-22-01	Drum	Housekeeping Waste	Bunker 1-61	Yucca Flat
01-26-01	Lead Sheets (2)	Housekeeping Waste	Building 1-31.1E2	Yucca Flat

CAU Number: **76 Area 2 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	6/15/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-22-11	Drums	Housekeeping Waste	Bunker 2-61	Rainier Mesa
02-26-08	Lead Sheets	Housekeeping Waste	LRL White Elephant	Oak Spring

CAU Number: **77 Area 3 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	6/15/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-22-01	Bucket	Housekeeping Waste	U-3mn	Yucca Flat
03-22-02	Bucket	Housekeeping Waste	U-3kc	Yucca Flat
03-22-03	Drum; Bucket	Housekeeping Waste	U-3fe	Yucca Flat
03-22-04	Drum	Housekeeping Waste	U-3kv	Yucca Flat
03-22-08	Plastic Bottle	Housekeeping Waste	U-3m 01	Paiute Ridge
03-22-09	Drum	Housekeeping Waste	U-3fw	Paiute Ridge
03-22-16	Gas Can	Housekeeping Waste	U-3hf	Yucca Flat
03-22-20	Drum	Housekeeping Waste	Building 3-355	Paiute Ridge
03-24-01	Battery	Housekeeping Waste	U-3lx	Yucca Flat
03-24-13	Batteries (3)	Housekeeping Waste	U-3gg	Yucca Flat
03-24-14	Battery	Housekeeping Waste	U-3mf	Yucca Flat
03-24-20	Battery	Housekeeping Waste	WOD Storage Facility	Yucca Flat
03-26-02	Lead Bricks	Housekeeping Waste	WOD Storage Facility	Yucca Flat

CAU Number: **78 Area 5 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	6/15/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
05-22-14	Drum	Housekeeping Waste	GMX Facility	Frenchman Lake
05-22-28	Drum with Solid Contents	Housekeeping Waste	Burma Road Barricade	Cane Spring
05-22-31	Drums (Buried)	Housekeeping Waste	RSM 5 E 3	Frenchman Lake
05-22-32	Drum	Housekeeping Waste	RNM 2s Well	Frenchman Lake

CAU Number: **79 Area 6 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	6/15/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
06-22-05	Drums (3)	Housekeeping Waste	USWB Station	Yucca Lake
06-22-09	Plastic Can	Housekeeping Waste	Yucca Lake, east side	Yucca Lake
06-22-16	Drums (3)	Housekeeping Waste	Well 3 Yard	Yucca Lake
06-22-25	Paint Buckets	Housekeeping Waste	CP-50	Yucca Lake
06-22-31	Drums (5)	Housekeeping Waste	CP-50	Yucca Lake
06-24-03	Batteries	Housekeeping Waste	Yucca Lake	Yucca Lake

CAU Number: **80 Area 7 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	6/15/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
07-22-11	Drum	Housekeeping Waste	Bunker 7-356	Paiute Ridge
07-24-01	Battery	Housekeeping Waste	UE-7L	Yucca Flat
07-24-05	Battery; Debris	Housekeeping Waste	Bunker 7-800	Yucca Flat
07-26-01	Lead Bricks (4)	Housekeeping Waste	Bunker 7-235	Yucca Flat

CAU Number: **81 Area 8 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	6/15/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
08-22-01	Drum	Housekeeping Waste	1 mile west of Sedan	Oak Spring
08-24-06	Battery	Housekeeping Waste	U-8a	Oak Spring

CAU Number: **82 Area 9 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	6/15/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
09-22-05	Drum	Housekeeping Waste	U-9 ITS 29.2	Oak Spring
09-22-07	Drum	Housekeeping Waste	U-9i	Yucca Flat
09-22-08	Drums (2)	Housekeeping Waste	U-9bo Crater	Yucca Flat
09-22-09	Drum	Housekeeping Waste	U-9by	Oak Spring
09-22-15	Drum	Housekeeping Waste	9-800 Bunker	Oak Spring
09-22-16	Drum	Housekeeping Waste	U-9ct	Oak Spring
09-24-02	Battery; Drum	Housekeeping Waste	U-9 ITS V-26	Oak Spring

CAU Number: **83 Area 10 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	6/15/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
10-22-03	Drum	Housekeeping Waste	U-10aw	Oak Spring
10-22-23	Drum; Stains	Housekeeping Waste	U-10am #1	Oak Spring

CAU Number: **84 Area 15 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	6/15/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
15-22-03	Drums; Buckets	Housekeeping Waste	Climax Hoist	Oak Spring
15-22-09	Drums (12)	Housekeeping Waste	Climax Hoist	Oak Spring

CAU Number: **85 Area 18 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	6/15/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
18-22-21	Bucket	Housekeeping Waste	17 Camp	Ammonia Tanks
18-24-10	Battery	Housekeeping Waste	17 Camp	Ammonia Tanks
18-24-11	Battery	Housekeeping Waste	17 Camp	Ammonia Tanks

CAU Number: **86 Area 19 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	6/15/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
19-22-03	Drums (2)	Housekeeping Waste	U-19ay	Dead Horse Flat
19-22-12	Drum	Housekeeping Waste	RSM 19 R 30	Dead Horse Flat
19-22-13	Drum	Housekeeping Waste	19-02 Road	Ammonia Tanks
19-22-15	Drum	Housekeeping Waste	U-19af	Ammonia Tanks
19-22-24	Drum	Housekeeping Waste	Echo Peak Station	Ammonia Tanks
19-22-26	Drum	Housekeeping Waste	RSM 19 P 100	Silent Butte
19-24-07	Batteries (4)	Housekeeping Waste	U-19y/s PS #1D	Dead Horse Flat

CAU Number: **87 Area 20 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	6/15/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
20-22-08	Drum, Bucket	Housekeeping Waste	U-20ae	Silent Butte
20-24-01	Battery	Housekeeping Waste	U-20u	Trail Ridge
20-24-05	Battery	Housekeeping Waste	U-20k Access Road	Trail Ridge

CAU Number: **88 Area 22 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	6/15/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
22-22-02	Drums (4)	Housekeeping Waste	Desert Rock Airstrip	Camp Desert Rock

CAU Number: **89 Area 25 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/21/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	6/15/1995	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-22-04	Drum	Housekeeping Waste	TTF Building #3124	Jackass Flats
25-22-07	Drums (2)	Housekeeping Waste	R-MAD Facility	Skull Mountain
25-22-11	Drums (7)	Housekeeping Waste	X-Tunnel	Striped Hills
25-24-13	Batteries	Housekeeping Waste	MX Scrap Yard	Lathrop Wells
25-26-06	Lead Bricks (12)	Housekeeping Waste	Test Cell C	Jackass Flats

CAU Number: **90 Area 2 Bitcutter Containment**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 5/21/1997

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Plan to State	5/15/1996	5/15/1996	N/A	8/30/1996	
Closure Report to State	1/31/1997	1/14/1997	5/21/1997	2/27/1997	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-20-01	Bitcutter/PS Inj. Wells (3) (RCRA)	Injection Well	Area 2 Bitcutter Shop	Oak Spring
02-20-03	Wastewater Pit	Sump (Cellar)	LLNL Postshot Shop	Oak Spring

CAU Number: **91 Area 3 U-3fi Injection Well**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 2/27/1997

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	4/30/1996	11/22/1995	N/A	2/27/1997	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-20-03	U-3fi Waste Disposal Unit (RCRA)	Injection Well	NW of U-3auS Landfill	Yucca Flat

CAU Number: **92 Area 6 Decon Pond Facility**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 5/11/1999

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Characterization Plan to State	5/31/1996	5/31/1996	N/A	N/A	
Characterization Report to State	3/31/1997	3/20/1997	4/28/1997	11/19/1997	
Closure Plan to State	8/3/1998	5/13/1998	6/19/1998	11/24/1998	
Closure Report to State	4/30/1999	4/28/1999	5/11/1999	5/11/1999	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
06-04-01	Decon Pad Oil/Water Separator	Other	Building 6-605/6-607	Yucca Lake
06-05-02	Decontamination Pond (RCRA)	Leachfield	Building 6-605/6-607	Yucca Lake

CAU Number: **93 Area 6 Steam Cleaning Effluent Ponds (SCEPs)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 2/20/1998

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Characterization Plan to State	2/28/1996	2/28/1996	N/A	N/A	
Characterization Report to State	12/31/1996	10/7/1996	N/A	N/A	
Closure Plan to State	6/2/1997	4/29/1997	5/21/1997	6/17/1997	
Closure Report to State	1/29/1998	1/7/1998	2/20/1998	2/20/1998	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
06-13-01	Generator Shop	Generator	Building 6-621	Yucca Lake
06-47-01	Steam Cleaning Effluent Ponds (RCRA)	Other Ponds/Lagoons	Buildings 6-623 & 6-800	Yucca Lake
06-99-05	Sumps	Sump (Cellar)	Building 6-800	Yucca Lake

CAU Number: **94 Area 23 Building 650 Leachfield**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/3/1998

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Characterization Plan to State	6/2/1997	1/22/1997	N/A	N/A	
Characterization Report to State	11/3/1997	9/5/1997	9/19/1997	3/31/1998	
Closure Plan to State	4/30/1998	3/30/1998	5/14/1998	7/20/1998	
Closure Report to State	11/2/1998	10/22/1998	11/3/1998	11/3/1998	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
23-05-01	Leachfield (RCRA)	Leachfield	Building 650	Mercury

CAU Number: **95 Area 15 EPA Farm Facility**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 3/2/1998

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CADD to State	3/31/1998	8/28/1997	N/A	N/A	NDEP never issued a milestone Notice of Completion.
Closure Report to State	4/30/1998	2/10/1998	3/2/1998	3/2/1998	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
15-41-01	EPA Farm Laboratory Building	D&D Facility	EPA Farm, Building 15-06	Oak Spring

CAU Number: **96 Area 25 Junior Hot Cell**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 8/4/1997

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	9/30/1996	5/17/1996	8/4/1997	8/4/1997	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-41-02	Jr. Hot Cell	D&D Facility	R-MAD Bldg. 3161	Skull Mountain

CAU Number: **103 Archived - Prior to May 1996**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

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Appendix IV - Closed Corrective Action Units

CAU Number: **109 Area 2 U-2bu Crater**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 1/25/2000

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Characterization Plan to State	3/2/1998	2/24/1998	3/25/1998	4/28/1998	
Characterization Report to State	9/30/1998	9/24/1998	10/1/1998	2/11/1999	
Closure Plan to State	3/31/1999	3/17/1999	3/30/1999	5/11/1999	
Closure Report to State	11/30/1999	11/10/1999	1/25/2000	1/25/2000	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-08-01	U-2bu Subsidence Crater (RCRA)	Waste Dump	U-2bu	Yucca Flat

CAU Number: **110 Area 3 WMD U-3ax/bl Crater**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 8/30/2001

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Characterization Report to State	11/30/1999	11/17/1999	12/22/1999	12/22/1999	
Closure Plan to State	9/29/2000	8/9/2000	8/24/2000	10/13/2000	
Closure Report to State	8/31/2001	6/22/2001	7/16/2001	8/30/2001	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-23-04	U-3axbl Subsidence Crater	Rad Contamination Area	Paca, Bobac	Yucca Flat

CAU Number: **112 Area 23 Hazardous Waste Trenches**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 1/14/1994

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
23-21-02	Area 23 Haz. Waste Trenches (RCRA)	Waste Disposal Trench	Mercury Highway Bypass	Camp Desert Rock

CAU Number: **113 Area 25 R-MAD Facility**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 8/19/2003

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	2/28/2001	1/11/2001	2/27/2001	2/27/2001	
Closure Report to State	4/30/2003	4/22/2003	5/19/2003	8/19/2003	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-41-01	R-MAD Facility	D&D Facility	Building 3110	Skull Mountain

CAU Number: **115 Area 25 Test Cell A Facility**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 3/13/2006

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	9/30/2004	7/26/2004	8/20/2004	12/22/2004	
Closure Report to State	3/31/2006	3/6/2006	3/13/2006	3/13/2006	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-41-04	Test Cell A Facility	D&D Facility	Buildings 3113 & 3113A	Jackass Flats
25-99-04	Asbestos Wrapped Pipes	Housekeeping Waste	Test Cell A	Jackass Flats
25-99-05	Asbestos Wrapped Pipes	Housekeeping Waste	Test Cell A	Jackass Flats
25-99-06	Asbestos Wrapped Pipes	Housekeeping Waste	Test Cell A	Jackass Flats

CAU Number: **116 Area 25 Test Cell C Facility**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 9/29/2011

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan Rev. 1 to State	N/A	1/2/2009	1/29/2009	1/29/2009	
SAFER Plan to State	9/30/2006	7/24/2006	8/11/2006	8/11/2006	
Closure Report to State	9/30/2011	9/20/2011	9/29/2011	9/29/2011	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-23-20	Nuclear Furnace Piping	Other	Test Cell C	Jackass Flats
25-41-05	Test Cell C Facility	D&D Facility	Building 3210	Jackass Flats

CAU Number: **117 Area 26 Pluto Disassembly Facility**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 7/6/2009

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	9/30/2007	9/20/2007	10/8/2007	10/8/2007	
Closure Report to State	11/30/2009	6/29/2009	7/6/2009	7/6/2009	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
26-41-01	Pluto Disassembly Facility	D&D Facility	Building 2201	Skull Mountain

CAU Number: **118 Area 27 Super Kukla Facility**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 9/20/2007

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan Rev 1 to State	N/A	9/20/2006	9/21/2006	9/21/2006	
SAFER Plan to State	9/30/2006	8/24/2006	9/5/2006	9/5/2006	
Closure Report to State	9/30/2007	9/19/2007	9/20/2007	9/20/2007	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
27-41-01	Super Kukla Reactor Building/High Bay and Mechanical Building	D&D Facility	Buildings 5400 & 5400A	Skull Mountain

CAU Number: **119 Storage Tanks**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 8/16/2000

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	6/30/2000	6/27/2000	8/16/2000	8/16/2000	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
01-01-01	Aboveground Storage Tank	Aboveground Storage Tank	Area 1 Batch Plant	Tippipah Spring
02-01-01	Gas Sampling Tanks (8)	Aboveground Storage Tank	U-2gh PS Area	Yucca Flat
02-02-02	Underground Storage Tank	Underground Storage Tank	U-2cu PS #1A	Oak Spring
03-01-02	Aboveground Storage Tank	Aboveground Storage Tank	U-3ev-3 Shaft	Paiute Ridge
04-01-01	Aboveground Storage Tanks (3)	Aboveground Storage Tank	U-4ac	Yucca Flat
04-01-02	Gas Sampling Tank	Aboveground Storage Tank	U-4at PS #1	Yucca Flat
07-01-01	Aboveground Storage Tank	Aboveground Storage Tank	Bunker 7-801	Yucca Flat
07-01-02	Aboveground Storage Tanks	Aboveground Storage Tank	U-7ca Crater	Yucca Flat
07-99-04	Gas Sampling Tank	Aboveground Storage Tank	U-7be	Yucca Flat
07-99-05	Gas Sampling Tanks (2)	Aboveground Storage Tank	U-7v	Yucca Flat
08-01-02	Aboveground Storage Tank	Aboveground Storage Tank	U-8d	Oak Spring
08-01-03	Aboveground Storage Tank	Aboveground Storage Tank	U-8d	Oak Spring
18-02-01	Underground Storage Tanks (2)	Underground Storage Tank	17 Camp Gas Station	Ammonia Tanks
18-02-02	Underground Storage Tank	Underground Storage Tank	17 Camp Gas Station	Ammonia Tanks
25-01-09	Aboveground Storage Tank	Aboveground Storage Tank	Building 3100, R-MAD	Skull Mountain

CAU Number: **119 Storage Tanks**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 8/16/2000

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-01-11	Aboveground Storage Tank	Aboveground Storage Tank	X-Tunnel	Striped Hills
25-01-14	Contaminated Storage Tank	Aboveground Storage Tank	E-MAD Facility	Jackass Flats
25-23-14	Trailer Tank	Aboveground Storage Tank	X-Tunnel	Striped Hills
26-02-03	Underground Storage Tank	Underground Storage Tank	Building 2201	Skull Mountain

CAU Number: **120 Areas 5, 6 Aboveground Storage Tanks**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 8/17/1999

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	9/30/1997	9/24/1997	10/23/1997	10/23/1997	
Closure Report to State	6/30/1999	6/16/1999	8/17/1999	8/17/1999	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
05-01-01	ASTs (3), piping and debris	Aboveground Storage Tank	RNM 1	Frenchman Lake
06-01-01	Portable Tanker Trailers (2), ASTs (2)	Aboveground Storage Tank	CP-50 Hot Park	Yucca Lake

CAU Number: **121 Storage Tanks and Miscellaneous Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 9/29/2008

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	7/31/2007	7/3/2007	7/20/2007	7/20/2007	
Closure Report to State	9/30/2008	9/22/2008	9/29/2008	9/29/2008	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-01-01	Aboveground Storage Tank	Aboveground Storage Tank	Area 12 Camp	Rainier Mesa
12-01-02	Aboveground Storage Tank	Aboveground Storage Tank	Area 12 Water Tank	Rainier Mesa
12-22-26	Drums; 2 AST's	Aboveground Storage Tank	G-Tunnel	Rainier Mesa

CAU Number: **122 Archived - Areas 8, 10, and 15 Storage Tanks**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **123 Archived - Area 12 Aboveground Storage Tanks**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **124 Storage Tanks**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 1/30/2008

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	10/31/2007	4/6/2007	4/19/2007	4/19/2007	
Closure Report to State	2/29/2008	1/22/2008	1/30/2008	1/30/2008	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
08-02-01	Underground Storage Tank	Underground Storage Tank	U-8d	Oak Spring
15-02-01	Irrigation Piping	Other	EPA Farm	Oak Spring
16-02-03	Underground Storage Tank	Underground Storage Tank	Area 16 Camp	Tippipah Spring
16-02-04	Fuel Oil Piping	Other	Area 16 Camp	Tippipah Spring
16-99-04	Fuel Line (Buried) and UST	Other	Area 16 Camp	Tippipah Spring

CAU Number: **125 Archived - Area 23 Aboveground Storage Tanks**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **126 Area 25 Aboveground Storage Tanks**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 2/2/1999

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	8/31/1998	7/2/1998	7/22/1998	7/22/1998	
Closure Report to State	2/26/1999	1/20/1999	2/2/1999	2/2/1999	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-01-01	Aboveground Storage Tanks (2)	Aboveground Storage Tank	Bldg. 3320, ETS 1	Jackass Flats
25-01-02	Aboveground Storage Tank	Aboveground Storage Tank	Bldg. 3320, ETS 1	Jackass Flats
25-01-03	Aboveground Storage Tank	Aboveground Storage Tank	Bldg. 3310, ETS 1	Jackass Flats
25-01-04	Aboveground Storage Tank	Aboveground Storage Tank	Bldg. 3320, ETS 1	Jackass Flats
25-01-08	Aboveground Storage Tank	Aboveground Storage Tank	Building 4838	Jackass Flats

CAU Number: **127 Areas 25 and 26 Storage Tanks**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 3/6/2008

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	8/30/2002	8/28/2002	9/18/2002	9/18/2002	
CADD to State	9/30/2003	9/26/2003	10/13/2003	10/13/2003	
CAP to State	11/1/2004	10/5/2004	10/11/2004	10/11/2004	
Closure Report to State	2/29/2008	2/21/2008	3/6/2008	3/6/2008	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-01-05	Aboveground Storage Tank	Aboveground Storage Tank	Building 3210, Test Cell C	Jackass Flats
25-01-06	Aboveground Storage Tank	Aboveground Storage Tank	Building 3901, ETSM	Jackass Flats
25-01-07	Aboveground Storage Tank	Aboveground Storage Tank	Building 3901, ETSM	Jackass Flats
25-02-02	Underground Storage Tank	Underground Storage Tank	Test Cell C	Jackass Flats
25-02-13	Underground Storage Tank	Underground Storage Tank	X-Tunnel	Striped Hills
25-12-01	Boiler	Boiler	Test Cell C	Jackass Flats

CAU Number: **127 Areas 25 and 26 Storage Tanks**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 3/6/2008

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-23-11	Contaminated Materials	Rad Contamination Area	Test Cell C	Jackass Flats
26-01-01	Filter Tank (RAD) and Piping	Aboveground Storage Tank	Building 2201	Skull Mountain
26-01-02	Filter Tank (RAD)	Aboveground Storage Tank	Building 2201	Skull Mountain
26-02-01	Underground Storage Tank	Underground Storage Tank	Building 2105	Skull Mountain
26-23-01	Contaminated Liquids Spreader	Rad Contamination Area	Area 26 Storage Yard	Skull Mountain
26-99-01	Radioactively Contaminated Filters	Other	Building 2201	Skull Mountain

CAU Number: **128 Archived - Area 29 Aboveground Storage Tanks**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **129 Archived - Areas 4, 7, and 8 Storage Tanks**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

Post-Closure Monitoring is complete.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **130 Storage Tanks**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 4/22/2009

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	8/31/2008	6/18/2008	7/3/2008	7/3/2008	
Closure Report to State	2/16/2010	3/26/2009	4/22/2009	4/22/2009	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
01-02-01	Underground Storage Tank	Underground Storage Tank	Building 1-31.4b	Yucca Flat
07-02-01	Underground Storage Tanks	Underground Storage Tank	Bunker 7-235	Yucca Flat
10-02-01	Underground Storage Tank	Underground Storage Tank	U-10x	Oak Spring
20-02-03	Underground Storage Tank	Underground Storage Tank	U-20az	Scrugham Peak
20-99-05	Tar Residue	Other	U-20z	Silent Butte
22-02-02	Buried UST Piping	Other	Camp Desert Rock	Point of Rocks
23-02-07	Underground Storage Tank	Underground Storage Tank	Building 119	Mercury

CAU Number: **131 Archived - Storage Tanks and Contaminated Materials**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 8/12/2005

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **132 Archived - Area 16 Underground Storage Tanks**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **133 Archived - Area 20 Underground Storage Tanks**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **134 Aboveground Storage Tanks**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 6/30/2009

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	5/31/2008	5/29/2008	6/17/2008	6/17/2008	
Closure Report to State	6/30/2009	6/16/2009	6/30/2009	6/30/2009	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-01-03	Aboveground Storage Tank	Aboveground Storage Tank	U-3em	Yucca Flat
03-01-04	Tank	Aboveground Storage Tank	WOD Storage Facility	Yucca Flat
15-01-05	Aboveground Storage Tank	Aboveground Storage Tank	RSM 15 D 20	Oak Spring
29-01-01	Hydrocarbon Stain	Oil/Fuel Spills	Receiver Station	Mine Mountain

CAU Number: **135 Area 25 Underground Storage Tanks**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 6/27/2001

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	8/2/1999	5/6/1999	5/20/1999	5/20/1999	
CADD to State	12/31/1999	12/23/1999	2/22/2000	2/22/2000	
CAP to State	7/31/2000	7/13/2000	7/24/2000	7/24/2000	
Closure Report to State	4/30/2001	3/29/2001	4/16/2001	6/27/2001	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-02-01	Underground Storage Tanks	Underground Storage Tank	E-MAD Facility	Jackass Flats
25-02-03	Underground Electrical Vault	Other	Test Cell A	Jackass Flats
25-02-10	Underground Storage Tank	Underground Storage Tank	Test Cell A	Jackass Flats

CAU Number: **136 Archived - Area 26 Underground Storage Tanks**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **137 Waste Disposal Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 3/20/2007

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	2/28/2006	12/1/2005	12/19/2005	12/19/2005	
CADD/CR to State	4/30/2007	3/16/2007	3/20/2007	3/20/2007	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
01-08-01	Waste Disposal Site	Rad Contamination Area	Easy, Simon, Apple II, and Galileo	Yucca Flat
03-23-01	Waste Disposal Site	Rad Contamination Area	Seaweed	Paiute Ridge
03-23-07	Radioactive Waste Disposal Site	Rad Contamination Area	U-3hk-d	Paiute Ridge
03-99-15	Waste Disposal Site	Waste Disposal Site	U-3an	Yucca Flat
07-23-02	Radioactive Waste Disposal Site	Rad Contamination Area	Lampblack	Yucca Flat
09-23-07	Radioactive Waste Disposal Site	Rad Contamination Area	Campos	Oak Spring
12-08-01	Waste Disposal Site	Rad Contamination Area	Red Hot	Rainier Mesa
12-23-07	Waste Disposal Site	Rad Contamination Area	G-Tunnel	Rainier Mesa

CAU Number: **138 Archived - Area 3 Waste Dumps**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **139 Waste Disposal Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 8/14/2009

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	5/31/2006	4/7/2006	4/18/2006	4/18/2006	
CADD to State	6/30/2007	1/10/2007	1/18/2007	1/18/2007	
CAP to State	3/31/2008	8/1/2007	8/13/2007	8/13/2007	
Closure Report to State	8/31/2009	8/6/2009	8/14/2009	8/14/2009	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-35-01	Burn Pit	Burn Cage/Pit	S-9e/T-9c	Yucca Flat
04-08-02	Waste Disposal Site	Waste Disposal Site	RSM 4 O-42	Yucca Flat
04-99-01	Contaminated Surface Debris	Waste Disposal Site	Orange Road at 4-04 Road	Yucca Flat
06-19-02	Waste Disposal Site/Burn Pit	Waste Disposal Site	Well 3 Yard, Bldg. 660	Yucca Lake
06-19-03	Waste Disposal Trenches	Waste Disposal Site	Building 6-660	Yucca Lake
09-23-01	Area 9 Gravel Gertie	Rad Contamination Area	Circle Road at 9-01 Road	Oak Spring

CAU Number: **139 Waste Disposal Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 8/14/2009

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
09-34-01	Underground Detection Station	Magazine/Bunker	Bunker 9-300	Yucca Flat

CAU Number: **140 Waste Dumps, Burn Pits, and Storage Area**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 9/7/2005

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	8/29/2003	7/19/2002	8/22/2002	8/22/2002	
CADD to State	11/28/2003	10/14/2003	11/3/2003	11/3/2003	
CAP to State	11/1/2004	4/1/2004	5/13/2004	11/4/2004	
Closure Report to State	9/30/2005	9/1/2005	9/7/2005	9/7/2005	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
05-08-01	Detonation Pits	Ordnance Site	Area 5 Frenchman Flat	Frenchman Lake
05-08-02	Debris Pits	Waste Dump	Gravel Gertie	Frenchman Lake
05-17-01	Hazardous Waste Accumulation Site (Buried)	Hazardous Waste Site	Triple Point Bunker	Frenchman Lake
05-19-01	Waste Disposal Site	Waste Disposal Site	N Frenchman Lake	Frenchman Lake
05-23-01	Gravel Gertie	Rad Contamination Area	Gravel Gertie	Frenchman Lake

CAU Number: **140 Waste Dumps, Burn Pits, and Storage Area**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 9/7/2005

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
05-35-01	Burn Pit	Burn Cage/Pit	Area 5 RWMS	Frenchman Lake
05-99-04	Burn Pit	Burn Cage/Pit	Spill Test Facility	Frenchman Lake
22-99-04	Radioactive Waste Dump	Rad Contamination Area	Camp Desert Rock	Point of Rocks
23-17-01	Hazardous Waste Storage Area	Hazardous Waste Site	Area 23	Camp Desert Rock

CAU Number: **141 Archived - Area 7 Waste Dumps**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **142 Archived - Area 12, I,J,K Tunnel Waste Dump**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **143 Area 25 Contaminated Waste Dumps**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 4/4/2002

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	7/31/1998	6/4/1998	6/24/1998	7/12/1999	
CADD to State	7/7/2000	6/29/2000	7/10/2000	7/10/2000	
CAP to State	3/12/2001	2/23/2001	3/5/2001	3/5/2001	
Closure Report to State	4/1/2002	3/18/2002	4/4/2002	4/4/2002	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-23-03	Contaminated Waste Dump #2	Rad Contamination Area	E-MAD Facility	Jackass Flats
25-23-09	Contaminated Waste Dump #1	Rad Contamination Area	R-MAD Facility	Skull Mountain

CAU Number: **145 Wells and Storage Holes**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 3/6/2008

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	10/19/2004	9/30/2004	10/6/2004	10/6/2004	
CADD to State	5/31/2006	4/27/2006	5/4/2006	5/4/2006	
CAP to State	12/31/2006	11/16/2006	12/4/2006	12/4/2006	
Closure Report to State	6/30/2008	2/21/2008	3/6/2008	3/6/2008	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-20-01	Core Storage Holes	Injection Well	Core/ETS Building	Yucca Flat
03-20-02	Decon Pad and Sump	Sump (Cellar)	BJY(U-3kz PS 1A)	Yucca Flat
03-20-04	Injection Wells	Injection Well	Area 3 Subdock	Yucca Flat
03-20-08	Injection Well	Injection Well	Area 3 J-6 Containment	Yucca Flat
03-25-01	Oil Spills	Oil/Fuel Spills	Area 3 Subdock	Yucca Flat
03-99-13	Drain and Injection Well	Injection Well	Core/ETS Building	Yucca Flat

CAU Number: **146 Archived - Area 3 Subdock Injection Well(s)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **147 Archived - Area 3 ETS Building Injection Well & Holding Area**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **148 Archived - Area 3 Ud3a, Ud3b Landfill Injection Wells**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **149 Archived - Area 3 J-6 Containment Injection Well**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **150 Archived - Area 5 DOD Camp Open Well**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **151 Septic Systems and Discharge Area**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 5/1/2008

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	5/31/2005	6/28/2004	8/3/2004	8/3/2004	
CADD to State	5/31/2006	5/10/2006	6/9/2006	6/9/2006	
CAP to State	5/31/2007	3/3/2007	3/6/2007	3/6/2007	
Closure Report to State	4/30/2008	4/15/2008	5/1/2008	5/1/2008	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-05-01	UE-2ce Pond	Other Ponds/Lagoons	UE-2ce	Rainier Mesa
12-03-01	Sewage Lagoons (6)	Sewage Lagoon	Area 12 Camp	Rainier Mesa
12-04-01	Septic Tanks	Septic Tank	A-12 Camp, Bldg 12-293	Rainier Mesa
12-04-02	Septic Tanks	Septic Tank	Area 12 Camp, Bldg. 4	Rainier Mesa
12-04-03	Septic Tank	Septic Tank	Area 12 Camp	Rainier Mesa
12-47-01	Wastewater Pond	Other Ponds/Lagoons	Buildings 12-8/12-16	Rainier Mesa

CAU Number: **151 Septic Systems and Discharge Area**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 5/1/2008

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
18-03-01	Sewage Lagoon	Sewage Lagoon	17 Camp, Castle Rock	Ammonia Tanks
18-99-09	Sewer Line (Exposed)	Other	17 Camp Gas Station	Ammonia Tanks

CAU Number: **152 Archived - Area 9 U-9u Injection Well**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **153 Archived - Area 9 Containment Shop Injection Well**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **154 Archived - Area 9 U-9 ITS Y-30 PS 19 Injection Well**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **155 Archived - Area 12 Machine Shop Injection Well**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **156 Archived - Area 15 EPA Farm Injection Well**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **157 Archived - Injection Wells**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 4/21/2005

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **158 Archived - Area 16 Generator Shop Injection Well**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **159 Archived - Area 20 U-20ac Injection Well**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **160 Archived - Area 20 U-20av Injection Well**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **161 Archived - Area 20 UE-20n & Pahute Mesa Injection Wells**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **162 Archived - Prior to May 1996**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **163 Archived - Area 20 U-20az PS Injection Well**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **164 Archived - Area 23 Motor Pool Injection Wells**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **165 Area 25 and 26 Dry Well and Washdown Areas**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/20/2005

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	1/31/2002	1/10/2002	2/20/2002	2/20/2002	
CADD to State	4/30/2003	4/17/2003	6/10/2003	8/26/2004	CADD Rev. 0 disapproved by NDEP
CAP to State	7/30/2004	7/1/2004	7/9/2004	7/9/2004	
Closure Report to State	1/31/2006	12/5/2005	12/20/2005	12/20/2005	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-07-06	Train Decontamination Area	Decon Pad	E-MAD Facility	Jackass Flats
25-07-07	Vehicle Washdown	Decon Pad	Reactor Control Point	Jackass Flats
25-20-01	Lab Drain Dry Well	Injection Well	Building 4215 (East Side)	Jackass Flats
25-47-01	Reservoir and French Drain	Other Ponds/Lagoons	Reactor Control Point	Jackass Flats
25-51-02	Drywell	Underground Discharge Point	Building 3320 at ETS-1	Jackass Flats
25-59-01	Septic System	Septic System	Building 3901 at E-MAD	Jackass Flats

CAU Number: **165 Area 25 and 26 Dry Well and Washdown Areas**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/20/2005

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
26-07-01	Vehicle Washdown Station	Decon Pad	Building 2201	Skull Mountain
26-59-01	Septic System	Septic System	Building 2205	Skull Mountain

CAU Number: **166 Storage Yards and Contaminated Materials**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 9/15/2009

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	7/31/2006	6/16/2006	6/26/2006	6/26/2006	
CADD to State	10/31/2007	3/23/2007	4/3/2007	4/3/2007	
CAP to State	9/30/2008	10/17/2007	11/1/2007	11/1/2007	
Closure Report to State	9/30/2009	9/2/2009	9/15/2009	9/15/2009	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-42-01	Cond. Release Storage Yd - North	Conditional Release Storage	Area 2 Camp	Oak Spring
02-42-02	Cond. Release Storage Yd - South	Conditional Release Storage	2-07 Road	Oak Spring
02-99-10	D-38 Storage Area	Conditional Release Storage	Area 2 Camp	Oak Spring
03-42-01	Conditional Release Storage Yard	Conditional Release Storage	Area 3 Camp	Yucca Flat
05-19-02	Contaminated Soil and Drum	Waste Disposal Site	Waste Management Area	Cane Spring
18-01-01	Aboveground Storage Tank	Aboveground Storage Tank	Little Feller II	Buckboard Mesa
18-99-03	Wax Piles/Oil Stain	Other Spill Site	Little Feller II	Buckboard Mesa

CAU Number: **167 Contaminated Materials and Trash Pits**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 5/2/2005

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	5/31/2004	5/25/2004	6/11/2004	5/2/2005	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
05-99-05	Combat Tank; Radioactive Material	Other	Frenchman Lake	Frenchman Lake
19-19-02	Trash Pit	Waste Disposal Site	NE of U-19ab	Dead Horse Flat

CAU Number: **168 Area 25 and 26 Contaminated Materials and Waste Dumps**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 2/5/2007

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAP Rev 1 to State	N/A	12/14/2006	6/18/2004	12/28/2006	
CADD Rev 2 to State	N/A	12/5/2006	12/21/2006	12/21/2006	
CAIP to State	11/30/2001	11/26/2001	1/29/2002	1/29/2002	
CADD to State	9/30/2003	8/7/2003	9/9/2003	9/9/2003	
CAP to State	5/31/2004	5/14/2004	6/18/2004	6/18/2004	
Closure Report to State	1/31/2007	1/25/2007	2/5/2007	2/5/2007	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-16-01	Construction Waste Pile	Construction Waste Landfill	E-MAD Facility	Jackass Flats
25-16-03	MX Construction Landfill	Construction Waste Landfill	MX Salvage Yard	Lathrop Wells

CAU Number: **168 Area 25 and 26 Contaminated Materials and Waste Dumps**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 2/5/2007

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-19-02	Waste Disposal Site	Waste Disposal Site	SE corner outside R-MAD	Skull Mountain
25-23-02	Radioactive Storage RR Cars	Rad Contamination Area	Radioactive Material Yard	Jackass Flats
25-23-13	ETL - Lab Radioactive Contamination	Rad Contamination Area	TTF Building	Jackass Flats
25-23-18	Radioactive Material Storage	Rad Contamination Area	E-MAD Facility	Jackass Flats
25-34-01	NRDS Contaminated Bunker	Magazine/Bunker	Rad Materials Storage	Jackass Flats
25-34-02	NRDS Contaminated Bunker	Magazine/Bunker	Rad Materials Storage	Jackass Flats
25-99-16	USW G3	Rad Contamination Area	Yucca Mountain	Busted Butte
26-08-01	Waste Dump/Burn Pit	Waste Dump	Building 2204	Skull Mountain
26-17-01	Pluto Waste Holding Area	Hazardous Waste Site	Pluto Facility	Skull Mountain
26-19-02	Contaminated Waste Dump #2	Waste Disposal Site	Tom Reactor Test	Skull Mountain

CAU Number: **169 Archived - Area 26 Contaminated Materials**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **170 Archived - Area 2 Contaminated Materials**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **171 Archived - Area 3 Site 3B Contaminated Waste Dump**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **172 Archived - Area 3 U-3hk-d, U3gi Contaminated Waste Dumps**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **173 Archived - Area 3 U-3ee Contaminated Waste Dump**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **174 Archived - Area 5 Gravel Gertie Contaminated Waste**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **175 Archived - Area 5 Contaminated Materials**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **176 Areas 5, 6, and 11 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 6/9/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	4/30/2003	4/17/2003	6/9/2003	6/9/2003	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
05-23-03	Vacuum Cleaners (10)	Other	GMX Facility	Frenchman Lake
05-24-07	Batteries	Housekeeping Waste	RSM 5E4	Frenchman Lake
06-01-02	Stock Tank	Housekeeping Waste	6-04 Road & Monastery	Yucca Lake
06-22-48	Drums/Radioactive Materials (8)	Barrels/Drums/Buckets/Cans	CP-50 Hot Park	Yucca Lake
06-23-04	Hot Park	Rad Contamination Area	Hot Park	Yucca Lake
06-98-01	Tank Wheel Bases	Housekeeping Waste	CP-50 Hot Park	Yucca Lake
06-98-02	Trailers	Housekeeping Waste	CP-50 Hot Park	Yucca Lake
06-98-03	Lead Boxes (2)	Housekeeping Waste	CP-50 Hot Park	Yucca Lake
06-99-08	Steam Pipe w/Asbestos	Other	Well 3 Yard, Bldg. 660	Yucca Lake

CAU Number: **177 Mud Pits and Cellars**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 3/7/2007

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	7/31/2006	6/12/2006	6/29/2006	6/29/2006	
Closure Report To State	4/30/2007	2/15/2007	3/7/2007	3/7/2007	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
08-23-01	Mud Pit and Cellar	Rad Contamination Area	Cyathus	Oak Spring
09-09-41	Unknown #3 Mud Pit/Disposal Area	Mud Pit	Near U-9bz	Oak Spring
09-09-45	U-9bz PS #1A Mud Pit (1) and Cellar	Mud Pit	U-9bz PS #1A	Oak Spring
09-23-05	Mud Pit and Cellar	Rad Contamination Area	Cathay	Yucca Flat
09-23-08	Mud Pit and Cellar	Rad Contamination Area	U-9 ITS W-22	Oak Spring
09-23-09	U-9itsx20 PS #1A Cellar	Rad Contamination Area	U-9 ITS X-20	Oak Spring
10-23-02	Mud Pit and Cellar	Rad Contamination Area	Tun	Oak Spring
10-23-03	Mud Pit and Cellar	Rad Contamination Area	Tun	Oak Spring
19-23-01	Mud Pit and Cellar	Rad Contamination Area	Panir	Dead Horse Flat
19-23-02	Cellar and Waste Storage Area	Rad Contamination Area	Panir	Dead Horse Flat
19-23-03	Cellar with Casing	Rad Contamination Area	Tierra	Dead Horse Flat
20-23-07	Cellar	Rad Contamination Area	Bullion	Silent Butte

CAU Number: **178 Archived - Area 7 U-7i Contaminated Waste Dump**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **179 Archived - Area 9 Circle Road Contaminated Waste Dump**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **180 Archived - Area 9 U-9ch Contaminated Waste Dump**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **181 Archived - Area 9 U-9cp Contaminated Waste Dump**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **182 Archived - Area 9 U-9 ITS W-22 Buried Radioactive Material**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **183 Archived - Area 9 U-9 ITS X-20 Buried Radioactive Material**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **184 Archived - Area 10 "Scooter" Contaminated Material**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **185 Archived - Area 12 U-12g & U-12f Tunnel Portals Contaminated Waste Dump**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **186 Archived - Area 12 U-12a Tunnel Portal Contaminated Waste Dump**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **187 Archived - Areas 12, 15 Tunnel and Mine Portals**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 4/21/2005

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **188 Archived - Area 12 U-12d Tunnel Portal Contaminated Waste Dump**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **189 Archived - Area 12 U-12b Tunnel Portal Contaminated Waste Dump**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **190 Contaminated Waste Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 3/27/2008

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	1/31/2007	12/11/2006	12/14/2006	12/14/2006	
CADD/CR to State	3/17/2008	3/10/2008	3/27/2008	3/27/2008	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
11-02-01	Underground Centrifuge	Other	Tweezer Facility	Plutonium Valley
11-02-02	Drain Lines and Outfall	Underground Storage Tank	Tweezer Facility	Plutonium Valley
11-59-01	Tweezer Facility Septic System	Septic System	Tweezer Facility	Plutonium Valley
14-23-01	LTU-6 Test Area	Rad Contamination Area	LTU-6	Mine Mountain

CAU Number: **191 Archived - Area 15 Tiny Tot Portals Contaminated Waste Dump**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **192 Archived – Area 15 Oak Springs Mine Shaft**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **193 Archived - Area 15 Climax Mine Contaminated Waste Dump**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **194 Archived - Area 19 U-19ay Contaminated Waste Dump**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **195 Archived - Area 19 U-19ac Contaminated Waste Dump**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **196 Archived - Area 22 Camp Desert Rock Contaminated Waste Dump**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **197 Archived - Area 25 Sample Management Building Contaminated Materials**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **198 Area 25 Test Cell C Contaminated Tanks**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 1/27/1999

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	7/31/1998	6/26/1998	7/23/1998	7/23/1998	
Closure Report to State	3/31/1999	1/14/1999	1/27/1999	1/27/1999	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-23-12	Contaminated Tanks	Aboveground Storage Tank	Test Cell C	Jackass Flats

CAU Number: **199 Archived - Area 25 X-Tunnel Contaminated Tank**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **200 Archived - Area 25 Test Cell C Contaminated Wash**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **201 Archived - Area 25 RMSF Contaminated Bunkers**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **202 Archived - Area 25 USW G3 Contaminated Soils and Borehole**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **203 Archived - Areas 1, 2, 3 Bunkers and Shaker Plant**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **204 Storage Bunkers**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 4/17/2006

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	2/28/2003	12/16/2002	1/3/2003	1/3/2003	
CADD to State	4/30/2004	4/1/2004	5/3/2004	7/19/2004	
CAP to State	11/1/2004	10/5/2004	10/11/2004	10/11/2004	
Closure Report to State	5/1/2006	4/4/2006	4/17/2006	4/17/2006	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
01-34-01	Underground Inst. House Bunker	Magazine/Bunker	Building 1-300	Yucca Flat
02-34-01	Instrument Bunker	Magazine/Bunker	Building 2-300	Oak Spring
03-34-01	Underground Bunker	Magazine/Bunker	Bunker 3-300	Yucca Flat
05-18-02	Chemical Explosives Storage	Magazine/Bunker	Sugar Bunker	Frenchman Lake
05-33-01	Kay Blockhouse	Building	5-07 Road near 5-03 Road	Frenchman Lake
05-99-02	Explosive Storage Bunker	Magazine/Bunker	Bunker 803	Cane Spring

CAU Number: **205 Archived - Area 5 North Frenchman Lake Waste Dump**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **206 Archived - Area 5 WMA Contaminated Materials**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **208 Archived - Area 9 Storage Bunker 9-300**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **209 Archived – Area 12 Storage Areas**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **210 Storage Areas and Contaminated Material**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 8/11/2004

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	9/30/2004	7/29/2004	8/11/2004	8/11/2004	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-99-10	Storage Flatcar	Other	None	Rainier Mesa
15-18-01	Chemical Storage Drums (4)	Chemical Storage	Climax Hoist	Oak Spring

CAU Number: **211 Area 15 EPA Farm Waste Dump**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 6/3/1998

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	4/30/1998	4/22/1998	6/3/1998	6/3/1998	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
15-01-02	Aboveground Storage Tanks	Aboveground Storage Tank	EPA Farm	Oak Spring
15-01-06	Aboveground Storage Tank	Aboveground Storage Tank	EPA Farm	Oak Spring
15-19-01	Waste Disposal Site	Waste Disposal Site	EPA Farm	Oak Spring
15-22-31	Fuel Can	Housekeeping Waste	EPA Farm	Oak Spring

CAU Number: **212 Area 23 Warehouses E&R Chemical Storage**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 6/3/1999

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	6/1/1999	5/12/1999	6/3/1999	6/3/1999	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
22-02-01	Underground Storage Tank	Underground Storage Tank	Desert Rock Airstrip	Camp Desert Rock
22-19-02	Trash Dump	Waste Disposal Site	Weather Station	Point of Rocks
22-24-01	Battery	Housekeeping Waste	S. of Jackass Flats Road	Point of Rocks
23-18-01	Hazardous Chemical Storage	Chemical Storage	Warehouse E	Mercury
23-18-02	Hazardous Chemical Storage	Chemical Storage	Warehouse R	Mercury
23-22-01	Cans - Epoxy Leak	Housekeeping Waste	Communication Trailers	Mercury

CAU Number: **213 Archived - Area 23 Salvage Yard**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **214 Bunkers and Storage Areas**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 9/18/2006

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

Post-Closure Monitoring has been removed.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	5/30/2003	5/16/2003	6/16/2003	6/16/2003	
CADD to State	8/31/2004	8/16/2004	8/23/2004	8/23/2004	
CAP to State	5/31/2005	4/1/2005	4/12/2005	4/12/2005	
Closure Report to State	9/30/2006	9/13/2006	9/18/2006	9/18/2006	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
05-99-01	Fallout Shelters	Other	Area 5 CD Test Area	Frenchman Lake
11-22-03	Drum	Housekeeping Waste	Plutonium Valley	Plutonium Valley
25-23-01	Contaminated Materials	Rad Contamination Area	Sample Managing Building	Jackass Flats
25-23-19	Radioactive Material Storage	Rad Contamination Area	Building 4320 (Behind)	Jackass Flats
25-34-03	Motor Dr/Gr Assembly (Bunker)	Magazine/Bunker	Engine Test Stand 1	Jackass Flats
25-34-04	Motor Dr/Gr Assembly (Bunker)	Magazine/Bunker	Engine Test Stand 1	Jackass Flats
25-34-05	Motor Dr/Gr Assembly (Bunker)	Magazine/Bunker	Engine Test Stand 1	Jackass Flats
25-99-12	Fly Ash Storage	Other	Bren Tower	Skull Mountain
25-99-18	Storage Area	Other	MX Missile Site	Lathrop Wells

CAU Number: **215 Archived - Area 26 MAD 401 Contaminated Waste Dump**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **216 Archived - Area 26 Tom Reactor Test Contaminated Waste Dump**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **217 Archived - Area 26 Horn Silver Mine Contaminated Waste Dump**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **218 Archived - Area 2 Camp Sewage Lagoons**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **219 Septic Systems and Injection Wells**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 6/15/2006

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	2/28/2005	1/25/2005	2/2/2005	2/2/2005	
CADD/CR to State	6/30/2006	5/31/2006	6/15/2006	6/15/2006	Submitted as CADD/CR

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-11-01	Steam Pipes and Asbestos Tiles	Other	Area 3 Subdock	Yucca Flat
16-04-01	Septic Tanks (3)	Septic Tank	Area 16 Camp	Tippipah Spring
16-04-02	Distribution Box	Other	Area 16 Camp	Tippipah Spring
16-04-03	Sewer Pipes	Other	Area 16 Camp	Tippipah Spring
23-20-01	DNA Motor Pool Sewage and Waste System	Injection Well	DNA Motor Pool	Mercury
23-20-02	Injection Well	Injection Well	Old REECo Motor Pool	Mercury

CAU Number: **220 Archived - Area 5 Sewage Lagoon**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **221 Archived - Area 6 Sewage Lagoons**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **222 Archived - Area 9 U-9y Sewage Pit**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **223 Archived - Area 12 Camp Sewage Lagoons**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **224 Decon Pad and Septic Systems**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/1/2007

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	5/31/2004	4/22/2004	5/6/2004	5/6/2004	
CADD to State	8/31/2005	5/3/2005	5/11/2005	5/11/2005	
CAP to State	8/30/2006	8/2/2006	8/8/2006	8/8/2006	
Closure Report to State	10/31/2007	10/25/2007	11/1/2007	11/1/2007	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-04-01	Septic Tank (Buried)	Septic Tank	RSM 2 L 13	Oak Spring
03-05-01	Leachfield	Leachfield	Area 3 Subdock/Steampit	Yucca Flat
05-04-01	Septic Tanks(4)/Discharge Area	Septic Tank	Area 5 Trailer Park	Mercury
06-03-01	Sewage Lagoons (3)	Sewage Lagoon	Yucca Lake	Yucca Lake
06-05-01	Leachfield	Leachfield	RSN Building 6-72	Yucca Lake
06-17-04	Decon Pad and Wastewater Catch	Decon Pad	CP-6 Decon Pad	Yucca Lake
06-23-01	Decon Pad Discharge Piping	Decon Pad Discharge Piping	CP-2	Yucca Lake
11-04-01	Sewage Lagoon	Sewage Lagoon	LLNL Tech Facility	Plutonium Valley
23-05-02	Leachfield	Leachfield	Building 155	Camp Desert Rock

CAU Number: **225 Archived - Area 12 Camp Septic Tanks**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **226 Archived - Area 15 EPA Farm Septic Tank**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **227 Archived - Area 16 Camp Sewage System**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **228 Archived - Area 17, 18 Camp Sewage Lagoon**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **229 Archived - Area 20 Camp Sewage System**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **230 Area 22 Sewage Lagoons**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 7/17/2001

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	8/2/1999	6/14/1999	7/12/1999	7/12/1999	CAIP Document contains CAUs 230, 320
CADD to State	5/1/2000	4/21/2000	5/10/2000	5/10/2000	CADD Document contains CAUs 230, 320
CAP to State	10/31/2000	9/14/2000	9/19/2000	9/19/2000	CAP Document contains CAUs 230, 320
Closure Report to State	9/28/2001	7/5/2001	7/17/2001	7/17/2001	CR Document contains CAUs 230, 320

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
06-03-02	Sewage Lagoons (2)	Sewage Lagoon	CP-1 South	Yucca Lake
06-03-03	Sewage Lagoons (4)	Sewage Lagoon	CP-1 Helipad	Yucca Lake
22-03-01	Sewage Lagoon	Sewage Lagoon	Desert Rock Airstrip	Point of Rocks

CAU Number: **231 Archived - Area 23 Building 200 Sewage Lagoons**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **232 Area 25 Sewage Lagoons**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 6/13/2000

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	6/1/1999	5/6/1999	5/24/1999	5/24/1999	
CADD/CR to State	12/31/1999	12/22/1999	6/13/2000	6/13/2000	Submitted as CADD/CR

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-03-01	Sewage Lagoon	Sewage Lagoon	Test Cell C	Jackass Flats

CAU Number: **233 Archived - Area 26 Sewage System**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **234 Mud Pits, Cellars, and Mud Spills**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 6/2/2008

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	8/31/2007	8/8/2007	8/29/2007	8/29/2007	
CADD/CR to State	9/30/2008	5/19/2008	6/2/2008	6/2/2008	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-09-48	Area 2 Mud Plant #1	Mud Pit	Near U-2eu	Oak Spring
02-09-49	Area 2 Mud Plant #2	Mud Pit	Near U-2eu	Oak Spring
02-99-05	Mud Spill	Mud Pit	U-2bp #2 PS #1A	Oak Spring
03-09-02	Mud Dump Trenches	Mud Pit	U-3kz	Yucca Flat
04-44-02	Mud Spill	Mud Pit	U-4at	Yucca Flat
04-99-02	Mud Spill	Mud Pit	Orange Road at U-4at	Yucca Flat
12-09-01	Mud Pit	Mud Pit	U-12r	Rainier Mesa
12-09-04	Mud Pit	Mud Pit	U-12r	Rainier Mesa
12-09-08	Mud Pit	Mud Pit	RSM 12 R 14	Rainier Mesa
12-30-14	Cellar	Sump (Cellar)	U-12r PS #1A/#1AS	Rainier Mesa
12-99-07	Mud Dump	Mud Pit	Area 12 Batch Plant	Rainier Mesa
15-09-01	Mud Pit	Mud Pit	N of EPA Farm	Oak Spring

CAU Number: **235 Archived - Area 2 Wastewater Basin**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **236 Archived - Area 3 Mudplant Flushing Pond**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **237 Archived - Area 5 Well 2S Evaporation Pond**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **238 Archived - Prior to May 1996**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **239 Archived - Area 12 Buildings 12-8/12-6 Wastewater Pond**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **240 Area 25 Vehicle Washdown**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 4/3/2001

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	2/1/1999	1/12/1999	1/25/1999	1/25/1999	
CADD to State	11/30/1999	9/17/1999	10/4/1999	10/4/1999	
CAP to State	8/31/2000	5/19/2000	5/26/2000	5/26/2000	
Closure Report to State	7/31/2001	3/23/2001	4/3/2001	4/3/2001	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-07-01	Vehicle Washdown Area	Decon Pad	Building 4839	Jackass Flats
25-07-02	Vehicle Washdown Area	Decon Pad	F Road at J Road	Jackass Flats
25-07-03	Vehicle Washdown Station	Decon Pad	Building 3152	Jackass Flats

CAU Number: **241 Archived - Area 26 Building 2201 Vehicle Washdown Area**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **242 Archived - Area 3 BJY Decontamination Pad/Sump**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **243 Archived - Area 5 RWMS Decontamination Pad/Sump**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **244 Archived - Area 6 Decontamination Pads/Laundry**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **245 Archived - Area 6 Well 3 Yard Cement Washdown**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **246 Archived - Area 6 CP-6 Decon Pad Accumulation Sump**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **247 Archived - Area 6 CP-6 Decon Pad Wastewater Catch**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **248 Archived - Area 14 UE-14b Sump**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **249 Archived - Area 15 EPA Farm Cement Mudpit**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **250 Archived - Area 15 EPA Farm Contaminated Sump/Piping**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **251 Archived - Area 23 Building 540 Leachfield/Sump**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **252 Area 25 Engine Test Stand 1 Decontamination Pad**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 10/30/2000

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	9/30/1999	8/18/1999	9/1/1999	9/1/1999	
CADD/CR to State	10/31/2000	10/11/2000	10/30/2000	10/30/2000	Submitted as CADD/CR

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-07-04	Decontamination Pad	Decon Pad	Engine Test Stand 1	Jackass Flats

CAU Number: **253 Archived - Area 25 EMAD Train Decontamination Area**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **254 Area 25 R-MAD Decontamination Facility**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 3/27/2002

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	8/31/1999	8/3/1999	8/17/1999	8/17/1999	
CADD to State	6/1/2000	5/30/2000	7/11/2000	7/11/2000	
CAP to State	1/2/2001	12/14/2000	1/18/2001	1/18/2001	
Closure Report to State	3/29/2002	3/6/2002	3/27/2002	3/27/2002	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-23-06	Decontamination Facility	Rad Contamination Area	Building 3126, R-MAD	Skull Mountain

CAU Number: **255 Archived - Area 3 Subdock Leachfield System**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **256 Archived - Area 6 Building 6-72 Leachfield**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **257 Archived - Area 6 CP-2 Leachfield Piping**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **258 Archived - Area 9 U-9y Leachfield**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **259 Archived - Area 15 EPA Farm Contaminated Leachfield**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **260 Archived - Area 23 Building 155 Leach Pit**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **261 Area 25 Test Cell A Leachfield System**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 5/30/2001

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	11/2/1998	9/29/1998	11/9/1998	11/9/1998	
CADD to State	2/29/2000	12/22/1999	1/11/2000	1/11/2000	
CAP to State	9/11/2000	8/28/2000	9/15/2000	9/15/2000	
Closure Report to State	8/31/2001	5/14/2001	5/30/2001	5/30/2001	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-05-01	Leachfield	Leachfield	Test Cell A	Jackass Flats
25-05-07	Acid Waste Leach Pit	Leachfield	Test Cell A	Jackass Flats

CAU Number: **262 Area 25 Septic Systems and UDP**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 7/31/2003

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	7/31/2000	7/20/2000	8/7/2000	8/7/2000	
CADD to State	9/28/2001	9/24/2001	10/17/2001	11/15/2001	
CAP to State	8/21/2002	6/20/2002	7/18/2002	7/18/2002	
Closure Report to State	5/30/2003	5/14/2003	9/10/2003	7/31/2003	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-02-06	Underground Storage Tank	Leachfield	E-MAD Facility	Jackass Flats
25-04-06	Septic Systems A and B	Septic System	Test Cell C	Jackass Flats
25-04-07	Septic System	Septic System	Building 3210	Jackass Flats
25-05-03	Leachfield	Leachfield	R-MAD Facility	Skull Mountain
25-05-05	Leachfield	Leachfield	R-MAD Facility	Skull Mountain
25-05-06	Leachfield	Leachfield	E-MAD Facility	Jackass Flats

CAU Number: **262 Area 25 Septic Systems and UDP**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 7/31/2003

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-05-08	Radioactive Leachfield	Leachfield	Test Cell C	Jackass Flats
25-05-12	Leachfield	Leachfield	Building 3126	Skull Mountain
25-51-01	Dry Well	Underground Discharge Point	Building 3125	Skull Mountain

CAU Number: **263 Area 25 Building 4839 Leachfield**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 7/31/2000

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	3/31/1999	3/11/1999	3/30/1999	3/30/1999	
CADD/CR to State	1/31/2000	10/25/1999	11/29/1999	7/31/2000	Submitted as CADD/CR

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
05-07-01	Decon Pad/Sump	Decon Pad	RWMS Building 5-6	Frenchman Lake
25-05-04	Leachfield	Leachfield	Building 4839	Jackass Flats

CAU Number: **264 Archived - Area 25 EMAD Contaminated Leachfield**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **265 Archived - Area 25 Test Cell C Leachfield**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **266 Area 25 Building 3124 Leachfield**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 3/13/2000

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	8/31/1999	12/18/1998	3/10/1999	3/10/1999	
CADD/CR to State	5/30/2000	2/18/2000	3/13/2000	3/13/2000	Submitted as CADD/CR, CR Milestone due date not established prior to CADD/CR submittal.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-05-09	Leachfield	Leachfield	Building 3124	Jackass Flats

CAU Number: **267 Archived - Area 25 Steam Plant Leachfield**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **268 Archived - Area 25 Service Station Leachfield**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **269 Archived - Area 25 Building 3124 Sump or Tank**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **270 Archived - Area 26 Building 2201 Leachfields**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **271 Areas 25, 26, and 27 Septic Systems**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 9/16/2004

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring has been removed.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	8/31/2001	4/12/2001	4/27/2001	4/27/2001	
CADD to State	12/2/2002	9/20/2002	10/4/2002	10/4/2002	
CAP to State	6/30/2003	6/13/2003	7/1/2003	7/1/2003	
Closure Report to State	8/31/2004	8/26/2004	9/16/2004	9/16/2004	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-04-01	Septic System	Septic System	Security Checkpoint	Jackass Flats
25-04-03	Septic System	Septic System	PAN-AM Trailer	Jackass Flats
25-04-04	Septic System	Septic System	Reactor Control Point	Jackass Flats
25-04-08	Septic System	Septic System	Bren Tower	Skull Mountain
25-04-09	Septic System	Septic System	Engine Test Stand 1	Jackass Flats
25-04-10	Septic System	Septic System	RadSafe Trailer	Jackass Flats

CAU Number: **271 Areas 25, 26, and 27 Septic Systems**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 9/16/2004

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring has been removed.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-04-11	Septic System	Septic System	S of LASL Trailers	Jackass Flats
26-03-01	Contaminated Water Reservoir	Other Ponds/Lagoons	Port Gaston Training Area	Skull Mountain
26-04-01	Septic System	Septic System	Area 26 Check Station	Skull Mountain
26-04-02	Septic System	Septic System	Hot Critical Facility	Skull Mountain
26-05-01	Radioactive Leachfield	Leachfield	Buildings 2201 & 2202	Skull Mountain
26-05-03	Septic System	Septic System	Building 2203	Skull Mountain
26-05-04	Septic System	Septic System	Building 2201	Skull Mountain
26-05-05	Septic System	Septic System	Buildings 2101, 2102, & 2107	Skull Mountain
27-05-02	Leachfield	Leachfield	Building 5200	Cane Spring

CAU Number: **272 Archived - Area 26 Buildings 2101, 2102 & 2105 Leachfields**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **273 Archived - Area 26 MAD 401 Leachfield**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **274 Septic Systems**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 9/21/2006

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	11/30/2005	8/11/2005	8/19/2005	8/19/2005	
CADD/CR to State	9/30/2006	9/20/2006	9/21/2006	9/21/2006	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-02-01	WX-6 ETS Building Septic System	Septic System	Area 3 ETS Building	Yucca Flat
06-02-01	Cesspool	Septic Tank	Building 6-388	Yucca Lake
09-01-01	Spill Site	Oil/Fuel Spills	U-9y	Oak Spring
09-05-01	Leaching Pit	Leachfield	U-9y	Oak Spring
20-05-01	Septic System	Leachfield	Area 20 Camp	Silent Butte

CAU Number: **275 Archived - Area 2 U-2ei Mud Disposal**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **276 Archived - Area 3 U-3kz Mud Disposal Trenches**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **277 Archived - Area 9 U-9y Drilling Mud Disposal Crater**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **278 Archived - Area 12 Batch Plant Mud Disposal**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **279 Archived - Area 20 Mud Disposal Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **280 Archived - Area 3 S-9e/T-9c Burn Pit**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **281 Archived - Area 5 RWMS/Spill Test Facility Burn Pits**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **282 Archived - Areas 17 and 18 Burn Pits**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **283 Archived - Area 19 Mud Disposal Site**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **284 Archived - Area 23 Burn Pit**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **285 Archived - Area 30 Burn Pit**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **286 Lead/Chemical/Spill Sites and Material Dumps**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 8/31/2005

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	9/30/2005	8/15/2005	8/31/2005	8/31/2005	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
01-26-02	Lead Sheets; Lead Lined Pit	Lead	Brick House	Yucca Flat
02-26-02	Lead Pipes/RAD Area	Lead	RSM 2 N 8	Oak Spring
02-26-10	Lead Shot	Lead	U-2gb	Oak Spring
02-99-06	Material Dump	Housekeeping Waste	U-2bp PS #2	Oak Spring
03-25-02	Oil Spills	Oil/Fuel Spills	Area 3 Subdock	Yucca Flat
03-29-01	Methyl Alcohol Bottle	Abandoned Chemicals	Satellite Vehicle	Yucca Flat
03-29-02	Acid Box; Chemicals	Abandoned Chemicals	Core/ETS Building	Yucca Flat
04-99-03	Oil (Quart)	Housekeeping Waste	Bunker 4-380	Yucca Flat
06-14-01	Radiation Counting Shield (Lead)	Lead	CP-400	Yucca Lake

CAU Number: **287 Archived - Area 3 Chemical Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **288 Area 25 EMAD/TTF Chemicals Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 3/13/2000

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	2/29/2000	2/24/2000	3/13/2000	3/13/2000	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-23-04	Radioactively Contaminated Crates	Rad Contamination Area	E-MAD Facility	Jackass Flats
25-23-05	Radioactive Contaminated Debris	Rad Contamination Area	TTF Building	Jackass Flats
25-23-10	Contaminated Materials	Rad Contamination Area	E-MAD Facility	Jackass Flats
25-29-01	Miscellaneous Chemicals	Abandoned Chemicals	E-MAD Facility	Jackass Flats
25-29-02	Miscellaneous Chemicals	Abandoned Chemicals	TTF Building	Jackass Flats
25-29-03	Miscellaneous Chemicals	Abandoned Chemicals	TTF Building	Jackass Flats
25-29-04	Miscellaneous Chemicals	Abandoned Chemicals	E-MAD Facility	Jackass Flats
25-29-05	Miscellaneous Chemicals	Abandoned Chemicals	R-MAD Facility	Skull Mountain
25-29-07	Ethylene Glycol	Abandoned Chemicals	E-MAD Facility	Jackass Flats
25-29-08	Miscellaneous Chemicals	Abandoned Chemicals	Building 3152	Jackass Flats
25-29-09	Miscellaneous Chemicals	Abandoned Chemicals	E-MAD Facility	Jackass Flats

CAU Number: **289 Archived - Area 25 RMAD Chemical Site**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **290 Archived - Area 25 Building 3152 Chemical Site**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **291 Archived - Area 2 U-2av Epoxy Tar Spill**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **292 Archived - Area 3 Oil Spills**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **293 Archived - Area 17 Burn Pit**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **294 Archived - Area 18 Little Feller I Wax/Oil Spills**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **295 Archived - Area 20 U-20z Tar Residue**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **296 Archived - Area 23 Building 751 Soil Stain**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **297 Area 25 EMAD Vacuum Pump Oil Recovery**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 4/16/1999

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	4/30/1999	3/25/1999	4/16/1999	4/16/1999	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-25-01	Vacuum Pump Oil Recovery	Oil/Fuel Spills	E-MAD Facility	Jackass Flats

CAU Number: **298 Archived - Area 3 U-3an Dirt Berm/Shaft**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **299 Archived - Area 5 Triple Point Bunker Buried Hazardous Waste**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **300 Surface Release Areas**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 9/12/2007

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	9/30/2004	6/15/2004	7/8/2004	7/27/2004	
CADD to State	11/13/2005	3/15/2005	3/18/2005	3/18/2005	
CAP to State	8/31/2006	8/2/2006	8/8/2006	8/8/2006	
Closure Report to State	10/31/2007	9/6/2007	9/12/2007	9/12/2007	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
23-21-03	Bldg 750 Surface Discharge	Surface Release Point	Area 23 Fleet Operations	Camp Desert Rock
23-25-02	Bldg 750 Outfall	Surface Release Point	Building 750	Camp Desert Rock
23-25-03	Bldg 751 Outfall	Surface Release Point	Building 751	Camp Desert Rock
25-60-01	Bldg 3113A Outfall	Surface Release Point	Bldg 3113A, Rack and Compensator Facility	Jackass Flats
25-60-02	Bldg 3901 Outfall	Surface Release Point	Bldg 3901, E-MAD Train Shed	Jackass Flats
25-62-01	Bldg 3124 Contaminated Soil	Surface Release Point	Building 3124, Treatability Test Facility	Jackass Flats
26-60-01	Bldg 2105 Outfall and Decon Pad	Surface Release Point	Building 2105, Check Station	Skull Mountain

CAU Number: **301 Archived - Area 18 Airport Trailer Park Disposal Area**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **302 Archived - Area 18 Ammunition Dump**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **303 Archived - Area 19 Trash Pits**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **304 Archived - Area 19 U-19ad, U-19q Waste Dumps**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **305 Archived - Area 20 U-20p Waste Disposal Site**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **306 Archived - Area 22 Desert Rock Area Waste Dumps**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **307 Archived - Area 23 Hazardous Waste Storage**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **308 Archived - Area 26 Pluto Facility Waste Holding Area**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **309 Area 12 Muckpiles**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 1/10/2006

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	1/31/2005	12/28/2004	1/4/2005	1/4/2005	
CADD/CR to State	2/28/2006	12/23/2005	1/10/2006	1/10/2006	Submitted as CADD/CR

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-06-09	Muckpile	Muckpile	I, J, K Tunnels	Rainier Mesa
12-08-02	Contaminated Waste Dump (CWD)	Rad Contamination Area	I, J, K Tunnels	Rainier Mesa
12-28-01	I, J, and K-Tunnel Debris	Rad Contamination Area	I, J, K Tunnels	Rainier Mesa

CAU Number: **310 Archived - Area 12 U-12b Tunnel Muckpile**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **311 Archived - Area 12 U-12c,d,f Tunnels Muckpile**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **312 Archived - Area 2 U-2bp Material Dumps**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **313 Archived - Area 12 I,J,K Tunnels Muckpile**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **314 Archived - Prior to May 1996**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **315 Archived - Prior to May 1996**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **316 Archived - Area 12 Miners Change House Boiler**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **317 Archived - Area 23 Mercury Cafeteria Boilers**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **318 Archived - Area 25 Test Cell C Boiler**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **319 Archived - Area 16 Camp Fuel Lines**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **320 Area 22 Desert Rock Airport Strainer Box**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 7/17/2001

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	8/2/1999	6/14/1999	7/12/1999	7/12/1999	
CADD to State	5/1/2000	4/21/2000	5/10/2000	5/10/2000	CADD Document contains CAUs 230, 320
CAP to State	10/31/2000	9/14/2000	9/19/2000	9/19/2000	CAP Document contains CAUs 230, 320
Closure Report to State	9/28/2001	7/5/2001	7/17/2001	7/17/2001	CR Document contains CAUs 230, 320

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
22-99-01	Strainer Box	Other	Desert Rock Airstrip	Point of Rocks

CAU Number: **321 Area 22 Weather Station Fuel Storage**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 9/19/2001

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	2/1/1999	1/12/1999	1/28/1999	1/28/1999	
CADD to State	11/30/1999	7/30/1999	8/17/1999	8/17/1999	
CAP to State	7/31/2000	6/12/2000	7/10/2000	7/10/2000	
Revised CADD/CR to State	4/30/2001	4/26/2001	6/20/2001	9/19/2001	Submitted as CADD/CR. Rev. 1 approved.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
22-99-05	Fuel Storage Area	Other	New Weather Station	Point of Rocks

CAU Number: **330 Areas 6, 22, and 23 Tanks and Spill Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 8/25/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	9/28/2001	7/3/2001	7/18/2001	9/28/2001	
Closure Report to State	9/30/2003	8/8/2003	8/25/2003	8/25/2003	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
06-02-04	UST and Piping	Underground Storage Tank	Well 3 Yard, Bldg. 660	Yucca Lake
22-99-06	Fuel Spill	Oil/Fuel Spills	Camp Desert Rock	Camp Desert Rock
23-01-02	Large AST Farm	Aboveground Storage Tank	Area 23	Camp Desert Rock
23-25-05	Asphalt Oil Spill/Tar Release	Oil/Fuel Spills	Bldg. 160 Mercury	Mercury

CAU Number: **336 Archived - Prior to May 1996**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **341 Archived - Area 23 Fleet Operations Steam Cleaning Effluent**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **342 Area 23 Mercury Fire Training Pit**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 5/10/2000

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

Post-Closure Monitoring has been removed.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	6/1/1998	4/6/1998	5/5/1998	5/5/1998	
CADD to State	3/31/1999	3/3/1999	3/16/1999	6/14/1999	
CAP to State	9/30/1999	9/9/1999	9/24/1999	9/24/1999	
Closure Report to State	9/29/2000	4/20/2000	5/10/2000	5/10/2000	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
23-56-01	Former Mercury Fire Training Pit	Fire Training Area	Mercury Salvage Yard	Camp Desert Rock

CAU Number: **361 Archived - Area 25 Sewage Systems**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **362 Archived - Area 5 Landfills/Burn Pits**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **368 Archived - Prior to May 1996**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **369 Archived - Prior to May 1996**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **376 Area 12 Underground Storage Tanks**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 4/12/1994

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-02-02	Underground Storage Tanks (2)	Underground Storage Tank	Ironworks Shop	Rainier Mesa
12-02-04	Underground Storage Tanks (2)	Underground Storage Tank	Former Gas Station	Rainier Mesa

CAU Number: **377 Area 23 Underground Storage Tanks**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 4/12/1994

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
23-02-01	Underground Storage Tank	Underground Storage Tank	Building 110	Mercury
23-02-04	Underground Storage Tank	Underground Storage Tank	Building 112	Mercury
23-02-06	Fuel Tanks (2)	Underground Storage Tank	Building 210	Mercury

CAU Number: **378 Area 25 Underground Storage Tanks**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 1/4/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-02-05	Underground Storage Tank	Underground Storage Tank	Test Cell A	Jackass Flats
25-02-07	Underground Storage Tank	Underground Storage Tank	Building 4838	Jackass Flats
25-02-08	Underground Storage Tanks (2)	Underground Storage Tank	Building 4838	Jackass Flats
25-02-09	Underground Storage Tank	Underground Storage Tank	R-MAD Facility	Skull Mountain

CAU Number: **379 Archived - Area 26 Underground Storage Tanks**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **380 Areas 1,3,9,14,15,16,19,23 Housekeeping Transformer Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 9/18/1996

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	9/30/1996	7/12/1996	9/18/1996	9/18/1996	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
01-14-01	Transformer	Housekeeping Waste	Bunker 1-61	Yucca Flat
01-14-02	Transformers (2)	Housekeeping Waste	Area 1 Camp	Tippipah Spring
01-27-01	Transformers	Housekeeping Waste	Area 1 Camp	Tippipah Spring
03-14-01	Transformer	Housekeeping Waste	U-3mf PS #2A	Yucca Flat
03-14-02	Transformers	Housekeeping Waste	U-3kz	Yucca Flat
03-14-03	Transformers; Switch Boxes	Housekeeping Waste	U-3ba/Area 3 Mudplant	Yucca Flat
03-14-04	Transformers; Switch Boxes	Housekeeping Waste	Bunker 3-300	Yucca Flat
03-14-06	Power Substation	Housekeeping Waste	U-3ah	Yucca Flat
03-14-07	Power Substation	Housekeeping Waste	U-3mk	Paiute Ridge
03-14-08	Transformer	Housekeeping Waste	Bunker 3-300	Yucca Flat
03-14-09	Switch Box	Housekeeping Waste	ETS Building	Yucca Flat
03-14-10	Transformer	Housekeeping Waste	Old Core Building	Yucca Flat
03-14-11	Switch Box	Housekeeping Waste	U-3me	Yucca Flat
03-14-12	Transformer	Housekeeping Waste	U-3auS	Yucca Flat
03-14-13	Transformers	Housekeeping Waste	Area 3 Machine Shop	Yucca Flat

CAU Number: **380 Areas 1,3,9,14,15,16,19,23 Housekeeping Transformer Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 9/18/1996

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-14-14	Switch Box	Housekeeping Waste	Engine Test Stand 1	Yucca Flat
03-14-15	Transformer	Housekeeping Waste	U-3kp	Yucca Flat
03-14-17	Transformer	Housekeeping Waste	Bunker, Unmarked	Yucca Flat
03-14-18	Transformer	Housekeeping Waste	3-03 Road at 3-05 Road	Yucca Flat
09-27-01	Transformer	Housekeeping Waste	Bunker Z-900	Yucca Flat
14-14-01	Transformer	Housekeeping Waste	Mine Mountain Road	Mine Mountain
14-14-02	Transformer	Housekeeping Waste	Mine Mountain Road	Mine Mountain
15-14-01	Transformer	Housekeeping Waste	Building 15-06	Oak Spring
15-14-02	Transformer	Housekeeping Waste	Gate 700C	Oak Spring
16-27-01	Transformer	Housekeeping Waste	Area 16 Substation	Tippipah Spring
19-14-02	Transformer	Housekeeping Waste	U-19az	Ammonia Tanks
19-14-03	Transformers (4)	Housekeeping Waste	U-19x/U-19az	Ammonia Tanks
23-27-01	Transformer	Housekeeping Waste	Building 752	Camp Desert Rock
23-27-02	Transformer	Housekeeping Waste	Building 116	Mercury

CAU Number: **381 Areas 10,15,19,25 Housekeeping Gas Cylinder Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 10/25/1996

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	9/30/1996	8/13/1996	10/25/1996	10/25/1996	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
10-99-02	Gas Cylinder	Housekeeping Waste	U-10aj G	Oak Spring
15-99-01	Gas Cylinder	Housekeeping Waste	Climax Hoist	Oak Spring
19-99-02	Gas Cylinder	Housekeeping Waste	19-4 Substation	Dead Horse Flat
19-99-03	Gas Cylinder	Housekeeping Waste	U-19q	Dead Horse Flat
19-99-04	Gas Cylinder	Housekeeping Waste	U-19zs	Dead Horse Flat
19-99-09	Gas Cylinders	Housekeeping Waste	U-19v	Ammonia Tanks
25-99-01	Gas Cylinder	Housekeeping Waste	Test Cell A	Jackass Flats
25-99-02	Gas Cylinder	Housekeeping Waste	Test Cell C	Jackass Flats
25-99-03	Gas Cylinders (3)	Housekeeping Waste	Test Cell C	Jackass Flats
25-99-07	Gas Cylinders (2)	Housekeeping Waste	R-MAD Facility	Skull Mountain
25-99-08	Gas Cylinder	Housekeeping Waste	R-MAD Facility	Skull Mountain
25-99-09	Gas Cylinders (4)	Housekeeping Waste	R-MAD Facility	Skull Mountain
25-99-10	Gas Cylinders (27)	Housekeeping Waste	X-Tunnel	Striped Hills
25-99-11	Gas Cylinders (14)	Housekeeping Waste	X-Tunnel	Striped Hills
25-99-13	Gas Cylinders (2)	Housekeeping Waste	Test Cell A	Jackass Flats

CAU Number: **381 Areas 10,15,19,25 Housekeeping Gas Cylinder Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 10/25/1996

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-99-14	Gas Cylinders (2)	Housekeeping Waste	E-MAD Facility	Jackass Flats

CAU Number: **382 Areas 1-7,9,10,12,15,16,18-20,25 & 30 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/30/1996

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	9/30/1996	9/23/1996	N/A	12/30/1996	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
01-22-02	Drums; Gas Can	Housekeeping Waste	5-Story Tower	Yucca Flat
02-22-06	Buckets (38)	Housekeeping Waste	U-2ey	Oak Spring
02-24-09	Battery	Housekeeping Waste	Trailer 926	Oak Spring
03-22-18	Drum	Housekeeping Waste	U-3fd	Yucca Flat
03-22-19	Drum; Containers	Housekeeping Waste	U-3kp	Yucca Flat
03-22-28	Drums	Housekeeping Waste	U-3Lr	Yucca Flat
03-22-31	Drum; Batteries	Housekeeping Waste	U-3gg	Yucca Flat
03-24-09	Batteries (2)	Housekeeping Waste	U-3mf PS #2a	Yucca Flat
04-22-07	Buckets; Drums	Housekeeping Waste	U-4s	Yucca Flat
04-24-10	Battery	Housekeeping Waste	U-4s	Yucca Flat
05-22-27	Kerosene Cans	Housekeeping Waste	Frenchman Lake Spill Test	Frenchman Lake
05-22-36	Drums (4)	Housekeeping Waste	UE-5c Well	Frenchman Lake
05-24-02	Batteries (2)	Housekeeping Waste	Sugar Bunker	Frenchman Lake
05-99-03	Iron Casks (2)	Housekeeping Waste	Building F3-16c	Frenchman Lake
06-22-03	Drums (4)	Housekeeping Waste	Well 3 Yard	Yucca Lake

CAU Number: **382 Areas 1-7,9,10,12,15,16,18-20,25 & 30 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/30/1996

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
06-22-04	Drums (8)	Housekeeping Waste	RSM 6-W9 and 6-W8	Plutonium Valley
06-22-22	Drums (2)	Housekeeping Waste	U-6b	Yucca Lake
06-22-34	Drum	Housekeeping Waste	Well 3 Yard	Yucca Lake
07-22-09	Drums (2)	Housekeeping Waste	Gate 7-1c	Yucca Flat
09-22-01	Drum	Housekeeping Waste	U-9 ITS W-24.5	Oak Spring
09-22-06	Drum	Housekeeping Waste	U-9z	Yucca Flat
09-22-17	Drum	Housekeeping Waste	U-9ct	Oak Spring
10-22-04	Drums (2)	Housekeeping Waste	U-10ay	Oak Spring
10-22-15	Drum	Housekeeping Waste	U-10m	Oak Spring
12-22-01	Drum	Housekeeping Waste	Electrical Storage Yard	Rainier Mesa
12-22-35	Drum	Housekeeping Waste	Building 12-300	Rainier Mesa
12-22-36	Drums (6), Canister	Housekeeping Waste	Linemans Storage Yard	Rainier Mesa
12-24-07	Battery	Housekeeping Waste	G-Tunnel Trailer Park	Rainier Mesa
12-24-11	Battery	Housekeeping Waste	RSM 12 P 2	Rainier Mesa
12-24-15	Battery	Housekeeping Waste	Bus Park Area - Northwest	Rainier Mesa
12-24-20	Batteries	Housekeeping Waste	Building 12-300	Rainier Mesa
15-22-18	Drums (2)	Housekeeping Waste	Climax Hoist	Oak Spring
15-24-01	Battery	Housekeeping Waste	EPA Farm	Oak Spring

CAU Number: **382 Areas 1-7,9,10,12,15,16,18-20,25 & 30 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/30/1996

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
15-29-01	Drums; Cans	Housekeeping Waste	Climax Hoist	Oak Spring
16-24-05	Battery	Housekeeping Waste	Area 16 Camp	Tippipah Spring
18-22-02	Drums (3)	Housekeeping Waste	RSM 18 A 99	Scrugham Peak
18-22-09	Drums (10)	Housekeeping Waste	U-18d Sulky	Buckboard Mesa
18-22-10	Drum	Housekeeping Waste	17 Camp Gas Station	Ammonia Tanks
18-22-12	Drum	Housekeeping Waste	17 Camp Generator Shack	Ammonia Tanks
18-22-13	Drum	Housekeeping Waste	17 Camp	Ammonia Tanks
18-22-14	Drum	Housekeeping Waste	17 Camp Generator Shack	Ammonia Tanks
18-22-17	Bucket	Housekeeping Waste	17 Camp Generator Shack	Ammonia Tanks
18-24-03	Battery	Housekeeping Waste	Little Feller I	Buckboard Mesa
19-22-17	Drum	Housekeeping Waste	U-19af	Dead Horse Flat
19-22-19	Drum	Housekeeping Waste	Echo Peak Station	Ammonia Tanks
19-22-27	Metal Cans	Housekeeping Waste	Pahute Substation	Ammonia Tanks
19-29-02	Bag of Battery Fluid	Housekeeping Waste	Echo Peak Station	Ammonia Tanks
20-22-12	Drums (2)	Housekeeping Waste	RSM P 114	Silent Butte
20-22-25	Drums (5)	Housekeeping Waste	RSM 20 P 106	Silent Butte
20-24-06	Batteries (4)	Housekeeping Waste	U-20aq	Silent Butte
25-22-01	Drum	Housekeeping Waste	Engine Test Stand 1	Jackass Flats

CAU Number: **382 Areas 1-7,9,10,12,15,16,18-20,25 & 30 Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/30/1996

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-22-06	Drums	Housekeeping Waste	R-MAD Facility	Skull Mountain
25-22-08	Drums	Housekeeping Waste	R-MAD Facility	Skull Mountain
25-22-09	Drums (16)	Housekeeping Waste	X-Tunnel	Striped Hills
25-22-10	Drums (5)	Housekeeping Waste	Y-Tunnel	Striped Hills
25-22-12	Drums	Housekeeping Waste	Building 4919	Jackass Flats
25-22-14	Drums (2)	Housekeeping Waste	E-MAD Facility	Jackass Flats
25-22-15	Drum	Housekeeping Waste	E-MAD Facility	Jackass Flats
25-22-17	Bucket	Housekeeping Waste	MX Scrap Metal Yard	Lathrop Wells
25-24-15	Battery	Housekeeping Waste	Sanitary Landfill	Skull Mountain
25-29-06	Paint Can	Housekeeping Waste	X-Tunnel	Striped Hills
30-22-01	Drum	Housekeeping Waste	40 Mile Canyon	Topopah Spring NW

CAU Number: **385 Archived - Area 6 Disposal Holes**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **398 Area 25 Spill Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 5/7/2003

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	12/31/2001	11/16/2001	11/29/2001	11/29/2001	
Closure Report to State	2/28/2003	2/21/2003	3/7/2003	5/7/2003	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-25-02	Oil Spills	Oil/Fuel Spills	E-MAD Facility	Jackass Flats
25-25-03	Oil Spills	Oil/Fuel Spills	Building 4838	Jackass Flats
25-25-04	Oil Spills	Oil/Fuel Spills	E-MAD Facility	Jackass Flats
25-25-05	Oil Spills	Oil/Fuel Spills	E-MAD Facility	Jackass Flats
25-25-06	Oil Spills	Oil/Fuel Spills	BLM ROW	Busted Butte
25-25-07	Hydraulic Oil Spill(s)	Oil/Fuel Spills	X-Tunnel	Striped Hills
25-25-08	Hydraulic Oil Spill(s)	Oil/Fuel Spills	Y-Tunnel	Striped Hills
25-25-16	Diesel Spill (from CAS 25-01-02)	Oil/Fuel Spills	Building 3320	Jackass Flats
25-25-17	Subsurface Hydraulic Oil Spill	Oil/Fuel Spills	E-MAD Facility	Jackass Flats
25-44-01	Fuel Spill	Oil/Fuel Spills	Fuel Storage Area	Jackass Flats

CAU Number: **398 Area 25 Spill Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 5/7/2003

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-44-02	Spill	Other Spill Site	Test Cell A	Jackass Flats
25-44-03	Spill	Other Spill Site	Building 4838	Jackass Flats
25-44-04	Acid Spill (from CAS 25-01-01)	Other Spill Site	Building 3320	Jackass Flats

CAU Number: **400 Bomblet Pit and Five Points Landfill (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 1/17/1997

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	6/5/1996	6/5/1996	1/16/1997	1/16/1997	
Closure Report to State	1/31/1997	12/18/1996	1/17/1997	1/17/1997	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
TA-19-001-05PT	Ordnance Disposal Pit	Buried Ordnance Site	Five Points Intersection	Stinking Spring SE
TA-55-001-TAB2	Ordnance Disposal Pit	Buried Ordnance Site	Bunker 2 Road	Stinking Spring SE

CAU Number: **401 Area 3 Gas Station Underground Storage Tank Site (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/18/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-02-003-0357	Underground Storage Tank, Gas	Underground Storage Tank	First Gas Station, Area 3	East of Cactus Peak

CAU Number: **402 Area 3 Building 0353 Underground Storage Tank Site (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/18/1995

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-02-001-0353	Underground Storage Tank, Diesel	Underground Storage Tank	Building 0353	East of Cactus Peak

CAU Number: **403 Area 3 Second Gas Station Underground Storage Tank (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 1/8/1999

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

Post-Closure Monitoring has been removed.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	5/23/1996	5/23/1996	1/16/1997	7/30/1996	
CADD to State	6/2/1997	3/13/1997	4/1/1997	4/1/1997	
Closure Report to State	9/30/1998	9/11/1998	1/8/1999	1/8/1999	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-02-004-0360	Underground Storage Tanks	Underground Storage Tank	Second Gas Station	East of Cactus Peak

CAU Number: **404 Roller Coaster Lagoons and Trench (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 5/18/1999

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring has been removed.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	5/23/1996	5/23/1996	1/16/1997	1/16/1997	
CADD to State	3/31/1997	3/25/1997	4/18/1997	4/18/1997	
CAP to State	9/2/1997	7/23/1997	7/31/1997	7/31/1997	
Closure Report to State	9/30/1998	9/11/1998	5/18/1999	5/18/1999	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
TA-03-001-TARC	Roller Coaster Lagoons	Sewage Lagoon	NW of Antelope Lake	Roller Coaster Knob
TA-21-001-TARC	Roller Coaster N. Disposal Trench	Waste Disposal Trench	NW of Antelope Lake	Roller Coaster Knob

CAU Number: **405 Area 3 Septic Systems (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 5/14/2002

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	7/2/2001	4/26/2001	5/14/2001	5/14/2001	
CADD/CR to State	4/30/2002	4/19/2002	5/14/2002	5/14/2002	Submitted as CADD/CR

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-05-002-SW03	Septic Waste System	Leachfield	Area 3	East of Cactus Peak
03-05-002-SW04	Septic Waste System	Leachfield	Area 3	East of Cactus Peak
03-05-002-SW07	Septic Waste System	Leachfield	Area 3	East of Cactus Peak

CAU Number: **406 Area 3 Building 03-74 & Building 03-58 Underground Discharge Points (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 4/20/2000

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	6/30/1999	5/24/1999	7/12/1999	7/12/1999	CAIP Document contains CAUs 406, 429
CADD/CR to State	3/31/2000	3/24/2000	4/20/2000	4/20/2000	Submitted as CADD/CR. Document contains CAUs 406, 429.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-51-002-0374	Heavy Duty Shop UDP, Sumps	Underground Discharge Point	Building 0374	East of Cactus Peak
03-51-003-0358	UPS Building UDP	Underground Discharge Point	UPS Building, Area 3	East of Cactus Peak

CAU Number: **407 Roller Coaster RadSafe Area (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 2/22/2002

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	6/30/1998	4/22/1998	5/26/1998	5/26/1998	
CADD to State	11/15/1999	9/28/1999	10/18/1999	10/18/1999	
CAP to State	5/26/2000	5/12/2000	5/22/2000	5/22/2000	
Closure Report to State	4/27/2001	4/24/2001	5/9/2001	2/22/2002	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
TA-23-001-TARC	Roller Coaster RadSafe Area	Rad Contamination Area	NW of Antelope Lake	Roller Coaster Knob

CAU Number: **408 Bomblet Target Area (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 9/20/2010

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan Rev1 to State	N/A	3/29/2010	4/7/2010	4/7/2010	
SAFER Plan to State	11/30/2006	10/31/2006	11/9/2006	11/9/2006	
Closure Report to State	9/30/2010	9/9/2010	9/20/2010	9/20/2010	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
TA-55-002-TAB2	Bomblet Target Areas	Buried Ordnance Site	Antelope Lake	Roller Coaster Knob

CAU Number: **409 Other Waste Sites (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 7/10/2001

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	11/30/2000	10/5/2000	10/30/2000	10/30/2000	
CADD/CR to State	9/28/2001	6/27/2001	7/10/2001	7/10/2001	Submitted as CADD/CR. CR regulatory milestone not established prior to CADD/CR submittal.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
RG-24-001-RGCR	Battery Dump Site	Housekeeping Waste	Cactus Repeater	Cactus Sprint
TA-53-001-TAB2	Septic Sludge Disposal Pit	Sludge Burial Pit	Area 3	Stinking Spring SE
TA-53-002-TAB2	Septic Sludge Disposal Pit	Sludge Burial Pit	Area 3	Stinking Spring SE

CAU Number: **410 Waste Disposal Trenches (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 1/5/2004

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	12/31/2002	7/19/2002	9/18/2002	9/18/2002	
CADD/CR to State	12/30/2003	12/22/2003	1/5/2004	1/5/2004	Submitted as CADD/CR

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-19-001	Waste Disposal Site	Waste Disposal Site	Bldg 0385-T	Cactus Sprint
09-21-001-TA09	Disposal Trenches	Waste Disposal Trench	Area 9	Stinking Spring SE
TA-19-002-TAB2	Debris Mound	Waste Disposal Site	Bunker 2	Stinking Spring SE
TA-21-002-TAAL	Disposal Trench	Waste Disposal Trench	S Antelope Lake	Roller Coaster Knob
TA-21-003-TANL	Disposal Trench	Waste Disposal Trench	NEDS Lake	Stinking Spring SE

FFACO
Appendix IV - Closed Corrective Action Units

CAU Number: **418 Areas 5,23,25,26 Underground Storage Tanks**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 9/18/1996

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	9/30/1996	7/29/1996	N/A	9/18/1996	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
05-02-01	UST 5-617-1	Underground Storage Tank	Building 617	Frenchman Lake
12-02-05	USTs 12-B-2	Underground Storage Tank	Area 12, Warehouse B	Rainier Mesa
23-02-09	UST 23-155-1	Underground Storage Tank	Building 155	Camp Desert Rock
25-02-11	UST 25-3124-1	Underground Storage Tank	TTF - Building 3124	Jackass Flats
25-02-12	UST 25-3127-1	Underground Storage Tank	Building 3127	Jackass Flats
26-02-04	UST 26-2201-2	Underground Storage Tank	Building 2201	Skull Mountain

CAU Number: **419 Archived - Prior to May 1996**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **423 Area 3 Underground Discharge Point, Building 0360 (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 10/20/1999

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

Post-Closure Monitoring has been removed.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	11/3/1997	10/27/1997	12/8/1997	12/8/1997	
CADD to State	6/30/1998	6/18/1998	11/10/1998	11/10/1998	
CAP to State	11/2/1998	10/15/1998	11/19/1998	11/19/1998	
Closure Report to State	8/2/1999	7/14/1999	10/20/1999	10/20/1999	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-02-002-0308	Underground Discharge Point	Underground Discharge Point	Building 0360	East of Cactus Peak

CAU Number: **424 Area 3 Landfill Complexes (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 8/24/1999

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	6/2/1997	4/25/1997	5/16/1997	5/16/1997	
CADD to State	3/31/1998	3/11/1998	4/16/1998	9/14/1998	
CAP to State	8/31/1998	8/14/1998	9/17/1998	9/17/1998	
Closure Report to State	8/2/1999	7/12/1999	8/24/1999	8/24/1999	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-08-001-A301	Landfill Cell A3-1	Waste Dump	Area 3 Landfill Complex	East of Cactus Peak
03-08-002-A302	Landfill Cell A3-2	Waste Dump	Area 3 Landfill Complex	East of Cactus Peak
03-08-002-A303	Landfill Cell A3-3	Waste Dump	Area 3 Landfill Complex	East of Cactus Peak
03-08-002-A304	Landfill Cell A3-4	Waste Dump	Area 3 Landfill Complex	East of Cactus Peak
03-08-002-A305	Landfill Cell A3-5	Waste Dump	Area 3 Landfill Complex	East of Cactus Peak
03-08-002-A306	Landfill Cell A3-6	Waste Dump	Area 3 Landfill Complex	East of Cactus Peak

CAU Number: **424 Area 3 Landfill Complexes (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 8/24/1999

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-08-002-A307	Landfill Cell A3-7	Waste Dump	Area 3 Landfill Complex	East of Cactus Peak
03-08-002-A308	Landfill Cell A3-8	Waste Dump	Area 3 Landfill Complex	East of Cactus Peak

CAU Number: **425 Area 9 Main Lake Construction Debris Disposal Area (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 4/1/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	5/31/2002	4/25/2002	5/15/2002	5/15/2002	
Closure Report to State	4/1/2003	2/21/2003	4/1/2003	4/1/2003	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
09-08-001-TA09	Construction Debris Disposal Area	Waste Dump	Area 9, Main Lake	Stinking Spring SE

CAU Number: **426 Cactus Spring Waste Trenches (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 5/13/1999

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	9/30/1996	8/5/1996	3/11/1997	3/11/1997	
CADD to State	4/30/1997	4/9/1997	4/21/1997	4/21/1997	
CAP to State	9/30/1997	9/16/1997	9/29/1997	9/29/1997	
Closure Report to State	8/31/1998	8/14/1998	9/16/1998	5/13/1999	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
RG-08-001-RGCS	Waste Trenches	Waste Dump	Cactus Spring Ranch	Cactus Sprint

CAU Number: **427 Area 3 Septic Waste Systems 2, 6 (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 8/27/1999

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

Post-Closure Monitoring has been removed.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	12/1/1997	9/26/1997	10/6/1997	10/6/1997	
CADD to State	7/31/1998	6/24/1998	7/22/1998	11/30/1998	
CAP to State	12/31/1998	11/16/1998	2/8/1999	2/8/1999	
Closure Report to State	8/31/1999	8/16/1999	8/27/1999	8/27/1999	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-05-002-SW02	Septic Waste System	Leachfield	Area 3	East of Cactus Peak
03-05-002-SW06	Septic Waste System	Leachfield	Area 3	East of Cactus Peak

CAU Number: **428 Area 3 Septic Waste Systems 1, 5 (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 6/29/2001

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	6/1/1999	3/31/1999	4/16/1999	4/16/1999	
CADD to State	2/29/2000	2/9/2000	3/1/2000	3/1/2000	
CAP to State	8/31/2000	8/15/2000	9/15/2000	9/15/2000	
Closure Report to State	7/31/2001	6/11/2001	6/29/2001	6/29/2001	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-05-002-SW01	Septic Waste System	Leachfield	Area 3	East of Cactus Peak
03-05-002-SW05	Septic Waste System	Leachfield	Area 3	East of Cactus Peak

CAU Number: **429 Area 3 Building 03-55 & Area 9 Building 09-52 Underground Discharge Points (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 4/20/2000

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	6/30/1999	5/24/1999	7/12/1999	7/12/1999	CAIP Document contains CAUs 406, 429
CADD/CR to State	3/31/2000	3/24/2000	4/20/2000	4/20/2000	Submitted as CADD/CR. Document contains CAUs 406, 429.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-51-001-0355	Photo Shop UDP, Drains	Underground Discharge Point	Photo Shop	East of Cactus Peak
09-51-001-0952	Mobile Photographic Lab UDPs	Underground Discharge Point	Area 9	Stinking Spring SE

CAU Number: **430 Buried DU Artillery Round #1 (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 3/11/1997

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	7/24/1996	7/24/1996	N/A	10/4/1996	
Closure Report to State	2/28/1997	2/27/1997	2/18/1997	3/11/1997	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
TA-55-003-0960	Depleted Uranium Artillery Round	Buried Ordnance Site	S of Area 9	Stinking Spring SE

CAU Number: **431 Archived - Prior to May 1996**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **432 Archived - Prior to May 1996**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **442 Archived - Area 25 MX Salvage Yard Construction Landfill**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **444 Archived - Area 23 Mercury Bypass Disposal Site**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **448 Area 25 Underground Storage Tank**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 8/15/1996

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-02-04	Underground Storage Tank	Underground Storage Tank	Test Cell C	Jackass Flats

CAU Number: **450 Areas 11,12,23,25,26 & 27 Underground Storage Tanks and Spills**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 3/2/1998

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	9/30/1997	9/24/1997	10/17/1997	3/2/1998	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
11-02-03 (dup)	UST 11-2-1	Underground Storage Tank	Building 11-2	Plutonium Valley
11-25-01	Spill H920716B (from UST 11-2-1)	Oil/Fuel Spills	Building 11-2	Plutonium Valley
12-02-01	UST 12-13-1	Underground Storage Tank	Area 12 Camp, Building 12-13	Rainier Mesa
12-02-08	UST 12-26-1	Underground Storage Tank	Building 12-26	Rainier Mesa
12-25-06	Spill H910802A (from UST 12-26-1)	Oil/Fuel Spills	Building 12-26	Rainier Mesa
12-25-11	Spill H931130E (from UST 12-13-1)	Oil/Fuel Spills	Area 12 Camp, Building 12-13	Rainier Mesa
23-02-11	UST 23-752-2	Underground Storage Tank	Building 23-752	Camp Desert Rock
23-02-12	UST 23-752-3	Underground Storage Tank	Building 23-752	Camp Desert Rock
23-02-13	UST 23-BPY-1	Underground Storage Tank	Mercury	Camp Desert Rock
23-25-06	Spill H910503A (from USTs 23-752-2,3)	Oil/Fuel Spills	Building 23-752	Camp Desert Rock
23-25-07	Spill H941020C (from UST 23-BPY-1)	Oil/Fuel Spills	Mercury	Camp Desert Rock
25-02-14	UST 25-3102-1	Underground Storage Tank	Building 25-3102	Jackass Flats
25-02-15	UST 25-3102-2	Underground Storage Tank	Building 25-3102	Jackass Flats
25-02-16	UST 25-3102-4	Underground Storage Tank	Building 25-3102	Jackass Flats
25-02-17	UST 25-3123-1	Underground Storage Tank	Building 25-3123	Jackass Flats

CAU Number: **450 Areas 11,12,23,25,26 & 27 Underground Storage Tanks and Spills**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 3/2/1998

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-02-18	UST 25-3129-1	Underground Storage Tank	Building 25-3129	Jackass Flats
25-25-10	Spill H920928B (from UST 25-3102-1,2)	Oil/Fuel Spills	Building 25-3102	Jackass Flats
25-25-11	Spill H940825E (from UST 25-3102-4)	Oil/Fuel Spills	Building 25-3102	Jackass Flats
25-25-12	Spill H940825D (from UST 25-3123-1)	Oil/Fuel Spills	Building 25-3123	Jackass Flats
25-25-13	Spill H941020D (from UST 25-3129-1)	Oil/Fuel Spills	Building 25-3129	Jackass Flats
26-02-02	UST 26-2104-1	Underground Storage Tank	Building 2104	Skull Mountain
26-25-01	Spill H920928A (from UST 26-2104-1)	Oil/Fuel Spills	Building 2104	Skull Mountain
27-02-01 (dup)	UST 27-5170-1	Underground Storage Tank	Building 5170	Cane Spring
27-25-02	Spill H931130D (from UST 27-5170-1)	Oil/Fuel Spills	Building 5170	Cane Spring

CAU Number: **451 Archived - Area 12 Underground Storage Tank and Spill at Building 16**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **452 Area 25 Underground Storage Tanks and Spills**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 6/23/1998

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

Post-Closure Monitoring has been removed.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	N/A	9/11/1997	3/3/1998	3/3/1998	
Closure Report to State	6/1/1998	5/4/1998	6/23/1998	6/23/1998	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-02-19	UST 25-3152-1	Underground Storage Tank	Building 3152	Jackass Flats
25-02-20	UST 25-3101-1	Underground Storage Tank	Building 3101	Jackass Flats
25-02-21	UST 25-3102-3	Underground Storage Tank	Building 3102	Jackass Flats
25-25-09	Spill H940825C (from UST 25-3101-1)	Oil/Fuel Spills	Building 3101	Jackass Flats
25-25-14	Spill H940314E (from UST 25-3102-3)	Oil/Fuel Spills	Building 3102	Jackass Flats
25-25-15	Spill H941020E (from UST 25-3152-1)	Oil/Fuel Spills	Building 3152	Jackass Flats

CAU Number: **453 Area 9 UXO Landfill (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 9/10/1999

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	6/30/1997	5/14/1997	6/3/1997	6/3/1997	
CADD to State	4/30/1998	3/11/1998	4/16/1998	9/4/1998	
CAP to State	9/30/1998	9/14/1998	12/7/1998	12/7/1998	
Closure Report to State	8/31/1999	8/5/1999	9/10/1999	9/10/1999	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
09-55-001-0952	Area 9 Landfill	Buried Ordnance Site	Area 9	Stinking Spring SE

CAU Number: **454 Area 12 Underground Storage Tanks and Spills Area 12 Camp**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 6/23/1998

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

Post-Closure Monitoring has been removed.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	N/A	9/11/1997	3/3/1998	3/3/1998	
Closure Report to State	6/1/1998	5/4/1998	6/23/1998	6/23/1998	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-02-06	UST 12-B-3	Underground Storage Tank	B-Tunnel Portal	Rainier Mesa
12-02-07	UST 12-B-1	Underground Storage Tank	B-Tunnel Portal	Rainier Mesa
12-02-09	UST 12-COMM-1	Underground Storage Tank	Communication Bldg.	Rainier Mesa
12-25-08	Spill H950524F (from UST 12-B-1)	Oil/Fuel Spills	B-Tunnel Portal	Rainier Mesa
12-25-09	Spill 960722-02 (from UST 12-B-3)	Oil/Fuel Spills	B-Tunnel Portal	Rainier Mesa
12-25-10	Spill H950919A (from UST 12-COMM-1)	Oil/Fuel Spills	Communication Bldg.	Rainier Mesa

CAU Number: **455 Archived - Area 23 Underground Storage Tanks and Spill at Building 115**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **456 Area 23 Underground Storage Tank and Spill at the NTSO Building**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 7/20/1998

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	N/A	9/11/1997	3/3/1998	3/3/1998	
Closure Report to State	6/1/1998	5/4/1998	7/20/1998	7/20/1998	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
23-02-03	UST 23-111-1	Underground Storage Tank	Building 111/NTSO	Mercury

CAU Number: **457 Areas 6, 11, 15, 26 and 27 Underground Storage Tanks**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 7/15/1996

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
06-02-05	UST 06-YA-1	Underground Storage Tank	Area 6 Camp	Yucca Lake
11-02-03	UST 11-1-1	Underground Storage Tank	Area 11, Building 1	Plutonium Valley
11-02-04	UST 11-2-2	Underground Storage Tank	Area 11, Building 2	Plutonium Valley
15-02-02	UST 15-CM-1	Underground Storage Tank	Climax Mine	Oak Spring
26-02-05	UST 26-2101-1	Underground Storage Tank	Building 2101	Skull Mountain
26-02-06	UST 26-2101-2	Underground Storage Tank	Building 2101	Skull Mountain
26-02-07	UST 26-2102-1	Underground Storage Tank	Building 2102	Skull Mountain
26-02-08	UST 26-2204-1	Underground Storage Tank	Building 2204	Skull Mountain
26-02-09	UST 26-2205-1	Underground Storage Tank	Building 2205	Skull Mountain
27-02-01	UST 27-5310-1/Spill H940314F	Underground Storage Tank	Building 5310	Cane Spring

CAU Number: **458 Archived - Area 6 Drums of Radioactive Material from CP 50 Hot Park**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **459 Archived - Area 6 Housekeeping Sites, Area 6 Camp**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **460 Archived - Area 6 Diesel Tank and Spill, Upper Monastery Building**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **461 Test Area JTA Sites (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 10/20/1999

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	8/31/1998	8/26/1998	9/8/1998	9/8/1998	
Closure Report to State	9/30/1999	9/21/1999	10/20/1999	10/20/1999	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
TA-52-002-TAML	Depleted Uranium Impact Site	DU Surface Debris	Main Lake	Stinking Spring SE
TA-52-003-0960	Depleted Uranium Artillery Round #2	DU Surface Debris	S of Area 9	Stinking Spring SE
TTR-001	1987 W-79 JTA	DU Surface Debris	Unknown	Stinking Spring SE

CAU Number: **464 Areas 2,9 Underground Storage Tanks and Spills Bunkers 2-300, 9-300**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 7/17/1998

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	N/A	9/11/1997	3/3/1998	3/3/1998	
Closure Report to State	6/1/1998	5/4/1998	7/17/1998	7/17/1998	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-02-03	UST 2-300-1	Underground Storage Tank	Bunker 300	Oak Spring
09-02-01	UST 9-300-1	Underground Storage Tank	Building 300	Yucca Flat

CAU Number: **468 Archived - Area 25 Waste Disposal Location**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **474 Archived**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **484 Surface Debris, Waste Sites, and Burn Area (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 10/5/2007

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

Post-Closure Monitoring has been removed.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	9/30/2004	6/9/2004	7/21/2004	7/28/2004	
Closure Report to State	9/30/2007	9/25/2007	10/5/2007	10/5/2007	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
RG-52-007-TAML	Davis Gun Penetrator Test	DU Surface Debris	Test Range	Mellan
TA-52-001-TANL	NEDS Detonation Area	DU Surface Debris	NEDS Lake	Stinking Spring SE
TA-52-004-TAAL	Metal Particle Dispersion Test	DU Surface Debris	Antelope Lake	Roller Coaster Knob
TA-52-005-TAAL	Joint Test Assembly DU Sites	DU Surface Debris	Antelope Lake	Roller Coaster Knob
TA-52-006-TAPL	Depleted Uranium Site	DU Surface Debris	Colimbo Detonation Area	Stinking Spring SE
TA-54-001-TANL	Containment Tank and Steel Structure	Other	NEDS Lake	Stinking Spring SE

CAU Number: **485 Cactus Spring Ranch Pu and DU Site (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 10/6/1998

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	8/31/1998	3/27/1998	4/24/1998	4/24/1998	Preliminary Assessment Report replaced CAIP.
CADD/CR to State	4/30/1999	8/3/1998	8/18/1998	10/6/1998	Submitted as CADD/CR CR Milestone due date not established prior to CADD/CR submittal.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
TA-39-001-TAGR	Cactus Spring Ranch, Soil Contam.	Rad Contamination Area	W of Target Areas	Cactus Sprint

CAU Number: **486 Double Tracks RadSafe Area (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 1/18/2001

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	2/26/1999	10/8/1998	10/15/1998	10/15/1998	
CADD to State	9/30/1999	6/24/1999	7/12/1999	7/12/1999	
CAP to State	3/31/2000	12/9/1999	12/16/1999	12/16/1999	
Closure Report to State	4/30/2001	1/3/2001	1/18/2001	1/18/2001	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
71-23-001-71DT	Double Tracks RadSafe Area	Rad Contamination Area	Nellis Range 71	White Patch Draw

CAU Number: **487 Thunderwell Site (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/17/2001

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	2/28/2001	1/4/2001	1/19/2001	1/19/2001	
CADD/CR to State	1/31/2002	11/21/2001	12/17/2001	12/17/2001	Submitted as CADD/CR

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
RG-26-001-RGRV	Thunderwell Site	Waste Dump	Thunderwell Site	East of Cactus Peak

CAU Number: **488 Archived - Davis Gun Site - Mellan (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **489 WWII UXO Sites (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 6/23/2006

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	8/30/2005	6/7/2005	6/15/2005	6/15/2005	
Closure Report to State	9/30/2006	6/14/2006	6/23/2006	6/23/2006	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
RG-55-001-RGMN	WWII Ordnance Site	Buried Ordnance Site	Mellan Airstrip	Mellan
RG-55-002-RGHS	WWII Ordnance Site	Buried Ordnance Site	H-Site Road	East of Cactus Peak
RG-55-003-RG36	WWII Ordnance Site	Buried Ordnance Site	Gate 36E	Stinking Spring SE

FFACO
Appendix IV - Closed Corrective Action Units

CAU Number: **490 Station 44 Burn Area (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 5/19/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	8/31/2000	6/8/2000	7/3/2000	7/3/2000	
CADD to State	7/31/2001	2/28/2001	3/5/2001	3/5/2001	
CAP to State	5/31/2002	4/25/2002	5/29/2002	5/29/2002	
Closure Report to State	4/30/2003	4/17/2003	5/19/2003	5/19/2003	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-56-001-03BA	Fire Training Area	Fire Training Area	Area 3	East of Cactus Peak
03-58-001-03FN	Sandia Service Yard	Housekeeping Waste	Area 3	East of Cactus Peak
09-54-001-09L2	Gun Propellant Burn Area	Solid Propellant Burn Site	Area 9	Stinking Spring SE
RG-56-001-RGBA	Station 44 Burn Area	Fire Training Area	Station 44	Stinking Spring SE

CAU Number: **491 Archived - Bunker 2 Debris Mound and NEDS Trench (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **492 Archived - South Antelope Lake Disposal Trench (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **493 Archived - Colimbo Detonation Site (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **494 Archived - Rocket Propellant Burn Area - NEDS Lake (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **495 Unconfirmed JTA Sites (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 7/14/1999

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	8/31/1998	8/26/1998	9/8/1998	9/8/1998	
Closure Report to State	4/30/1999	4/28/1999	7/14/1999	5/21/1999	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
TA-55-006-09SE	Buried Artillery Round	Buried Ordnance Site	Test Area	Stinking Spring SE
TA-55-007-09SE	Buried Artillery Round	Buried Ordnance Site	Test Area	Stinking Spring SE

CAU Number: **496 Buried Rocket Site - Antelope Lake (TTR)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 5/23/2007

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Letter Report to State	N/A	5/14/2007	5/23/2007	5/23/2007	
SAFER Plan to State	7/30/2004	6/9/2004	7/21/2004	7/21/2004	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
TA-55-008-TAAL	Buried Rocket	Buried Ordnance Site	Antelope Lake	Roller Coaster Knob

CAU Number: **497 Archived - Area 15 EPA Farm Liquid Manure Tank**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **498 Archived - Area 11 Radiation Area Drums**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **499 Hydrocarbon Spill Site, TTR**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 8/14/2002

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	11/30/2001	9/25/2001	11/21/2001	11/21/2001	
Closure Report to State	8/30/2002	7/29/2002	8/14/2002	8/14/2002	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
RG-25-001-RD24	Radar 24 Diesel Spill Site	Oil/Fuel Spills	Radar 24 Site	Cactus Sprint

CAU Number: **500 Test Cell A Septic System**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 1/12/2001

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	2/26/1999	12/18/1998	1/27/1999	1/27/1999	
CADD/CR to State	2/15/2000	2/4/2000	1/12/2001	3/1/2000	Submitted as CADD/CR

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-04-05	Septic Tank/System	Septic Tank	Test Cell A	Jackass Flats

CAU Number: **501 Archived - Active Housekeeping Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **502 Archived - EMAD Sanitary Leachfield System**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **505 Archived - Area 23 Fire Equipment Building**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **506 Archived - Area 6 Waste Disposal Site**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **507 Archived - Area 12 Waste Dump, Tunnel Portal Area**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **508 Archived - Areas 19 and 20 Radiation Contaminated Areas**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **509 Archived - Area 25 Radiation Contamination Area**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **510 Archived - Area 3 Contamination Area**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **511 Waste Dumps (Piles & Debris)**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 1/3/2006

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	9/30/2005	9/9/2004	9/16/2004	9/16/2004	
CADD/CR to State	1/31/2006	12/12/2005	1/3/2006	1/3/2006	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-08-02	Waste Dump (Piles & Debris)	Waste Disposal Site	U-3ev-4 Shaft	Paiute Ridge
03-99-11	Waste Dump (Piles)	Waste Dump	U-3kz PS #1A	Yucca Flat
03-99-12	Waste Dump (Piles & Debris)	Waste Dump	Area 3 Subdock	Yucca Flat
04-99-04	Contaminated Trench/Berm	Contaminated Soil Site	U-4q	Yucca Flat
06-16-01	Waste Dump (Piles & Debris)	Waste Dump	Yucca Lake	Yucca Lake
06-17-02	Scattered Ordnance/Automatic Weapons Range	Waste Dump	RSM 6 W 9	Plutonium Valley
07-08-01	Contaminated Mound	Contaminated Soil Site	Bunker 7-800	Yucca Flat
18-99-10	Ammunition Dump	Ordnance Site	S of Pahute Airstrip	Buckboard Mesa
19-19-03	Waste Dump (Piles & Debris)	Waste Dump	Mud Plant Disposal	Silent Butte

CAU Number: **512 Archived - Area 10 RAD Contamination Area**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **513 Archived - Area 12 Mudpits**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **514 Archived - Area 6 Underground Discharge Points**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **515 Archived - Area 20 Photochemical Drain**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **516 Septic Systems and Discharge Points**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 4/20/2007

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	5/30/2003	5/8/2003	5/19/2003	5/19/2003	
CADD to State	8/31/2004	3/18/2004	5/3/2004	5/3/2004	
CAP to State	9/30/2005	9/1/2005	9/12/2005	9/12/2005	
Closure Report to State	6/30/2007	4/12/2007	4/20/2007	4/20/2007	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-59-01	Bldg 3C-36 Septic System	Septic System	Area 3 Camp, Building 3C-36	Yucca Flat
03-59-02	Bldg 3C-45 Septic System	Septic System	Area 3 Camp, Building 3C-45	Yucca Flat
06-51-01	Sump and Piping	Underground Discharge Point	Well 3 Yard, Bldg. 660	Yucca Lake
06-51-02	Clay Pipe and Debris	Housekeeping Waste	Well 3 Yard, Bldg. 660	Yucca Lake
06-51-03	Clean Out Box and Piping	Underground Discharge Point	Well 3 Yard, Bldg. 660	Yucca Lake
22-19-04	Vehicle Decontamination Area	Decon Area	Desert Rock Airport	Point of Rocks

CAU Number: **517 Archived - Area 12 Tunnel Effluent**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **518 Archived - Area 15 Ponds**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **519 Archived - Area 2 Underground Storage Tank**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **520 Archived - Areas 12 and 15 Aboveground Storage Tanks**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **521 Archived - Area 25 Underground Storage Tank**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **522 Archived - Area 4 Caustic Lime**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **523 Housekeeping Waste**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/15/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	12/31/2003	12/2/2003	12/15/2003	12/15/2003	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
04-22-04	Drums	Housekeeping Waste	U-4h	Yucca Flat
12-22-20	Drum	Housekeeping Waste	T-Tunnel Pond #4	Rainier Mesa
16-22-29	Drum	Housekeeping Waste	Area 16 Runway	Tippipah Spring
18-22-24	Bottles - Lithium Bromide	Housekeeping Waste	Water Sump Shack	Scrugham Peak
19-22-02	Drums (3)	Housekeeping Waste	U-19ar	Dead Horse Flat
19-22-04	Drums (3)	Housekeeping Waste	U-19ay	Dead Horse Flat
19-22-31	Can	Housekeeping Waste	Substation 19-10	Dead Horse Flat
19-22-32	Can; Debris	Housekeeping Waste	U-19r	Dead Horse Flat
20-22-03	Drums	Housekeeping Waste	U-20p	Trail Ridge
20-22-10	Drum	Housekeeping Waste	U-20ax	Scrugham Peak
20-22-20	Drum	Housekeeping Waste	U-20az	Scrugham Peak
20-22-27	Bucket	Housekeeping Waste	Area 20 Water Sump	Silent Butte
20-22-28	Drums	Housekeeping Waste	U-20ax	Scrugham Peak
20-22-29	Bucket	Housekeeping Waste	U-20ar	Silent Butte
20-26-01	Lead Pellets	Housekeeping Waste	U-20ar	Silent Butte

CAU Number: **524 Area 25 Housekeeping Waste**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/5/2000

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	9/29/2000	9/14/2000	10/17/2000	12/5/2000	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-22-18	Bucket	Housekeeping Waste	Test Cell C Turnoff	Jackass Flats
25-22-19	Drums (20)	Housekeeping Waste	Engine Test Stand/Road K	Jackass Flats
25-22-20	Cans (25)	Housekeeping Waste	R-MAD Facility	Skull Mountain
25-26-27	Lead Bricks	Housekeeping Waste	Bren Tower	Skull Mountain

CAU Number: **525 Archived - Areas 12, 16, 18, and 27 Housekeeping Waste**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **526 Archived - Waste Disposal Site**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **527 Horn Silver Mine**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 8/23/2004

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	12/2/2002	9/26/2002	10/18/2002	1/6/2003	
CADD/CR to State	9/30/2004	8/16/2004	8/23/2004	8/23/2004	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
26-20-01	Contaminated Waste Dump #1	Waste Disposal Site	Horn Silver Mine	Skull Mountain

CAU Number: **528 Polychlorinated Biphenyls Contamination**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 10/17/2006

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	6/30/2003	5/16/2003	6/16/2003	6/16/2003	
CADD to State	8/2/2004	3/15/2004	4/8/2004	4/8/2004	
CAP to State	8/31/2005	6/16/2005	7/5/2005	7/5/2005	
Closure Report to State	2/28/2007	9/26/2006	10/17/2006	10/17/2006	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-27-03	Polychlorinated Biphenyls Surface Contamination	PCB	Building 3210	Jackass Flats

CAU Number: **529 Area 25 Contaminated Materials**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 11/18/2004

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	4/30/2003	3/6/2003	4/1/2003	4/1/2003	
CADD/CR to State	9/15/2004	9/10/2004	11/18/2004	11/18/2004	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-23-17	CONTAMINATED WASH	Rad Contamination Area	NW of Test Cell C	Jackass Flats

CAU Number: **537 Waste Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 7/20/2007

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	9/30/2007	7/17/2007	7/20/2007	7/20/2007	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-23-06	Bucket; Yellow Tagged Bags	Rad Contamination Area	Core/ETS Building	Yucca Flat
19-19-01	Trash Pit	Waste Disposal Site	RSM 19 C 19	Dead Horse Flat

CAU Number: **538 Spill Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 3/5/2007

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	4/30/2006	4/12/2006	5/4/2006	5/4/2006	
Closure Report to State	3/31/2007	2/23/2007	3/5/2007	3/5/2007	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-21-01	Epoxy Tar Pit	Waste Disposal Trench	East of U-2ao Crater	Oak Spring
03-25-04	Hydrocarbon Stain	Oil/Fuel Spills	Ironworkers Yard	Yucca Flat
06-09-01	Cement Washdown	Mud Pit	Well 3 Yard	Yucca Lake
06-44-05	Diesel Spill from Tank #38061	Oil/Fuel Spills	Upper Monastery at 6-04 Rd	Yucca Lake
06-44-06	Spill Site with Hydrocarbons	Other Spill Site	Area 6 CP Complex	Yucca Lake
12-29-06	Spill Site	Oil/Fuel Spills	Area 12 Lineman Shop	Rainier Mesa
23-25-01	Oil Stains	Oil/Fuel Spills	Building 503	Mercury

CAU Number: **539 Areas 25 and 26 Railroad Tracks**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 7/7/2011

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	6/30/2010	6/10/2010	6/30/2010	6/30/2010	
Closure Report to State	6/30/2011	6/29/2011	7/7/2011	7/7/2011	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-99-21	Area 25 Railroad Tracks	Other	Building 3900 Exterior	Jackass Flats
26-99-05	Area 26 Railroad Tracks	Other	Building 2201 Exterior	Skull Mountain

CAU Number: **542 Disposal Holes**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 4/27/2007

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	6/30/2006	5/26/2006	6/8/2006	6/8/2006	
CADD/CR to State	11/30/2007	4/19/2007	4/27/2007	4/27/2007	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-20-07	UD-3a Disposal Hole	Injection Well	West of U-3ah/at Landfill	Yucca Flat
03-20-09	UD-3b Disposal Hole	Injection Well	West of U-3ah/at Landfill	Yucca Flat
03-20-10	UD-3c Disposal Hole	Injection Well	West of U-3amS-4	Yucca Flat
03-20-11	UD-3d Disposal Hole	Injection Well	North of U-3bc	Yucca Flat
06-20-03	UD-6 and UD-6s Disposal Holes	Injection Well	NW of U-3auS Landfill	Yucca Flat
08-20-01	Injection Well Surface Release	Surface Release Point	U-8d	Oak Spring
09-20-03	Injection Well Surface Release	Surface Release Point	U-9 ITS Y-30 PS 19	Oak Spring
20-20-02	Injection Well Surface Release	Surface Release Point	U-20av PS #1	Scrugham Peak

CAU Number: **543 Liquid Disposal Units**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 1/28/2008

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAP Rev 1 to State	N/A	5/14/2007	5/21/2007	5/21/2007	
CAIP to State	6/1/2004	5/3/2004	5/11/2004	5/11/2004	
CADD to State	10/31/2005	9/14/2005	9/26/2005	9/26/2005	
CAP to State	1/31/2007	10/5/2006	10/16/2006	10/16/2006	
Closure Report to State	1/31/2008	1/22/2008	1/28/2008	1/28/2008	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
06-07-01	Decon Pad	Decon Pad	Bldg. 6-605	Yucca Lake
15-01-03	Aboveground Storage Tank	Aboveground Storage Tank	EPA Farm	Oak Spring
15-04-01	Septic Tank	Septic Tank	EPA Farm	Oak Spring
15-05-01	Leachfield	Leachfield	EPA Farm	Oak Spring

CAU Number: **543 Liquid Disposal Units**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 1/28/2008

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
15-08-01	Liquid Manure Tank	Septic Tank	EPA Farm	Oak Spring
15-23-01	Underground Radioactive Material Area	Injection Well	EPA Farm	Oak Spring
15-23-03	Contaminated Sump, Piping	Rad Contamination Area	EPA Farm	Oak Spring

CAU Number: **545 Dumps, Waste Disposal Sites, and Buried Radioactive Materials**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 4/29/2008

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	4/30/2008	6/8/2007	7/10/2007	7/10/2007	
CADD/CR to State	9/30/2008	4/10/2008	4/29/2008	4/29/2008	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-09-01	Mud Disposal Area	Mud Pit	U-2ei	Oak Spring
03-08-03	Mud Disposal Site	Mud Pit	U-3ai	Yucca Flat
03-17-01	Waste Consolidation Site 3B	Hazardous Waste Site	Unknown	Yucca Flat
03-23-02	Waste Disposal Site	Rad Contamination Area	Tuloso	Yucca Flat
03-23-05	Europium Disposal Site	Rad Contamination Area	Pommard	Yucca Flat
03-99-14	Radioactive Material Disposal Area	Rad Contamination Area	Bandicoot	Yucca Flat
09-23-02	U-9y Drilling Mud Disposal Crater	Rad Contamination Area	Wichita	Oak Spring
20-19-01	Waste Disposal Site	Waste Disposal Site	U-20p	Trail Ridge

CAU Number: **546 Injection Well and Surface Releases**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 1/6/2009

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	4/30/2008	3/6/2008	3/14/2008	3/14/2008	
CADD/CR	1/7/2009	12/18/2008	1/6/2009	1/6/2009	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
06-23-02	U-6a/Russet Testing Area	Rad Contamination Area	Russet	Yucca Lake
09-20-01	Injection Well	Injection Well	U-9u	Oak Spring

CAU Number: **547 Miscellaneous Contaminated Waste Sites**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 8/16/2012

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CADD/CAP to State	9/30/2011	9/19/2011	9/27/2011	9/27/2011	
Closure Report to State	1/31/2013	7/18/2012	8/16/2012	8/16/2012	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-37-02	Gas Sampling Assembly	Miscellaneous	U-2ag	Oak Spring
03-99-19	Gas Sampling Assembly	Miscellaneous	U-3n	Yucca Flat
09-99-06	Gas Sampling Assembly	Miscellaneous	U-9cc	Yucca Flat

CAU Number: **551 Area 12 Muckpiles**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 12/18/2006

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	6/30/2004	6/8/2004	6/24/2004	6/24/2004	
CADD to State	9/30/2005	7/7/2005	7/25/2005	7/25/2005	
CADD/CR Rev. 1 to State	11/30/2006	11/17/2006	12/18/2006	12/18/2006	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-01-09	Aboveground Storage Tank and Stain	Aboveground Storage Tank	Generator Station 12-65	
12-06-05	U-12b Muckpile	Muckpile	U-12b Portal	Rainier Mesa
12-06-07	Muckpile	Muckpile	U-12c,d,f	Rainier Mesa
12-06-08	Muckpile	Muckpile	U-12b Portal	Rainier Mesa

CAU Number: **552 Area 12 Muckpile and Ponds**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 9/23/2005

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	4/30/2004	4/6/2004	4/15/2004	4/15/2004	
CADD/CR to State	9/30/2005	9/1/2005	9/23/2005	9/23/2005	Submitted as CADD/CR

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-23-05	Ponds	Tunnel Pond	G-Tunnel	Rainier Mesa

CAU Number: **553 Areas 19, 20 Mud Pits and Cellars**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 9/11/2007

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	12/8/2006	11/22/2006	12/6/2006	12/6/2006	
Closure Report to State	9/30/2007	8/24/2007	9/11/2007	9/11/2007	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
19-99-01	Mud Spill	Mud Pit	U-19ad	Dead Horse Flat
19-99-11	Mud Spill	Mud Pit	U-19q	Dead Horse Flat
20-09-09	Mud Spill	Other Ponds/Lagoons	Pahute Lake	Silent Butte
20-99-03	Mud Spill	Mud Pit	U-20aq	Silent Butte

CAU Number: **554 Area 23 Release Site**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 7/19/2005

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	8/31/2005	10/19/2004	10/21/2004	10/21/2004	
CADD/CR to State	9/30/2005	7/18/2005	7/19/2005	7/19/2005	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
23-02-08	USTs 23-115-1,2,3/Spill 530-90-002	Underground Storage Tank	Building 115	Mercury

CAU Number: **566 EMAD Compound**

Owner: NNSA / Industrial Sites - ER

Date CAU Transferred to Appendix IV: 8/10/2011

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	6/30/2010	6/17/2010	7/15/2010	7/15/2010	
Closure Report to State	6/30/2011	6/30/2011	8/10/2011	8/10/2011	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-99-20	EMAD Compound	Other	Building 3900 Exterior	Jackass Flats

CAU Number: **37 Area 16 Camp Burn Pit**

Owner: Industrial Sites - ER, EPT

Date CAU Transferred to Appendix IV: 9/26/1996

Use Restriction Information:

This CAU has been closed and the appropriate DOE/NV organization will perform long-term monitoring in accordance with Nevada Solid Waste Disposal Regulations. Land Use Restrictions are recorded in permanent DOE files.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	4/30/1996	3/25/1996	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
16-15-01	Area 16 Disposal Site (Burn Pit)	Sanitary Landfill	Area 16 Camp	Tippipah Spring

CAU Number: **38 Area 19 Pahute Mesa Road Landfill**

Owner: Industrial Sites - ER, EPT

Date CAU Transferred to Appendix IV: 9/26/1996

Use Restriction Information:

This CAU has been closed and the appropriate DOE/NV organization will perform long-term monitoring in accordance with Nevada Solid Waste Disposal Regulations. Land Use Restrictions are recorded in permanent DOE files.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	4/30/1996	3/25/1996	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
19-15-01	Area 19 Disposal Site	Sanitary Landfill	Pahute Mesa Rd./Dirt Rd.	Silent Butte

CAU Number: **39 Area 20 Pahute Lake Landfill**

Owner: Industrial Sites - ER, EPT

Date CAU Transferred to Appendix IV: 9/26/1996

Use Restriction Information:

This CAU has been closed and the appropriate DOE/NV organization will perform long-term monitoring in accordance with Nevada Solid Waste Disposal Regulations. Land Use Restrictions are recorded in permanent DOE files.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	4/30/1996	3/25/1996	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
20-15-02	Area 20 Disposal Site	Sanitary Landfill	Pahute Lake	Scrugham Peak

CAU Number: **40 Area 25 Cane Springs Landfill**

Owner: Industrial Sites - ER, EPT

Date CAU Transferred to Appendix IV: 9/26/1996

Use Restriction Information:

This CAU has been closed and the appropriate DOE/NV organization will perform long-term monitoring in accordance with Nevada Solid Waste Disposal Regulations. Land Use Restrictions are recorded in permanent DOE files.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	4/30/1996	3/25/1996	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-15-03	Cane Springs Landfill/Disposal Site	Sanitary Landfill	Area 25 Guard Station 5	Skull Mountain

CAU Number: **41 Area 27 Landfill**

Owner: Industrial Sites - ER, EPT

Date CAU Transferred to Appendix IV: 9/26/1996

Use Restriction Information:

This CAU has been closed and the appropriate DOE/NV organization will perform long-term monitoring in accordance with Nevada Solid Waste Disposal Regulations. Land Use Restrictions are recorded in permanent DOE files.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	4/30/1996	3/25/1996	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
27-15-01	Area 27 Disposal Site	Sanitary Landfill	Unknown	Cane Spring

CAU Number: **42 Area 30 Landfill**

Owner: Industrial Sites - ER, EPT

Date CAU Transferred to Appendix IV: 9/26/1996

Use Restriction Information:

This CAU has been closed and the appropriate DOE/NV organization will perform long-term monitoring in accordance with Nevada Solid Waste Disposal Regulations. Land Use Restrictions are recorded in permanent DOE files.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	4/30/1996	3/25/1996	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
30-15-01	Area 30 Disposal Site	Sanitary Landfill	Unknown	Timber Mountain

CAU Number: **43 Area 3 BJY Disposal Site**

Owner: Industrial Sites - ER, EPT

Date CAU Transferred to Appendix IV: 9/26/1996

Use Restriction Information:

This CAU has been closed and the appropriate DOE/NV organization will perform long-term monitoring in accordance with Nevada Solid Waste Disposal Regulations. Land Use Restrictions are recorded in permanent DOE files.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	4/30/1996	3/25/1996	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-08-01	BJY Disposal Site	Waste Dump	U-3mf PS #2A/BJY	Yucca Flat

CAU Number: **44 Area 25 FOC Construction Landfills**

Owner: Industrial Sites - ER, EPT

Date CAU Transferred to Appendix IV: 9/26/1996

Use Restriction Information:

This CAU has been closed and the appropriate DOE/NV organization will perform long-term monitoring in accordance with Nevada Solid Waste Disposal Regulations. Land Use Restrictions are recorded in permanent DOE files.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	4/30/1996	3/25/1996	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-16-02	FOC Disposal Site	Construction Waste Landfill	Area 25 Camp	Jackass Flats
25-16-04	FOC Disposal Site East	Construction Waste Landfill	Area 25 FOC	Jackass Flats

CAU Number: **364 Area 25 RMAD Landfill**

Owner: Industrial Sites - ER, EPT

Date CAU Transferred to Appendix IV: 9/26/1996

Use Restriction Information:

This CAU has been closed and the appropriate DOE/NV organization will perform long-term monitoring in accordance with Nevada Solid Waste Disposal Regulations. Land Use Restrictions are recorded in permanent DOE files.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	4/30/1996	3/25/1996	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-15-02	Disposal Site	Sanitary Landfill	R-MAD Facility - West Side	Skull Mountain

CAU Number: **399 Area 18 Disposal Site**

Owner: Industrial Sites - ER, EPT

Date CAU Transferred to Appendix IV: 9/26/1996

Use Restriction Information:

This CAU has been closed and the appropriate DOE/NV organization will perform long-term monitoring in accordance with Nevada Solid Waste Disposal Regulations. Land Use Restrictions are recorded in permanent DOE files.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	4/30/1996	3/25/1996	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
18-16-01	Area 18 Disposal Site	Construction Waste Landfill	18-01 Road	Ammonia Tanks

CAU Number: **104 Area 7 Yucca Flat Atmospheric Test Sites**

Owner: NNSA / Soils - ER

Date CAU Transferred to Appendix IV: 7/11/2013

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	9/2/2011	8/23/2011	9/16/2011	9/16/2011	
CADD/CAP to State	12/20/2012	11/1/2012	11/8/2012	11/8/2012	
Closure Report to State	12/20/2013	6/19/2013	7/11/2013	7/11/2013	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
07-23-03	Atmospheric Test Site T-7C	Rad Contamination Area	Boltzmann, Quay	Yucca Flat
07-23-04	Atmospheric Test Site T7-1	Rad Contamination Area	Easy	Yucca Flat
07-23-05	Atmospheric Test Site	Rad Contamination Area	Bee, Zucchini	Yucca Flat
07-23-06	Atmospheric Test Site T7-5a	Rad Contamination Area	Able (Operation Buster)	Yucca Flat
07-23-07	Atmospheric Test Site - Dog (T-S)	Rad Contamination Area	Dog (Operation Tumbler-Snapper)	Yucca Flat
07-23-08	Atmospheric Test Site - Baker (T-S)	Rad Contamination Area	Baker (Operation Tumbler-Snapper)	Yucca Flat

CAU Number: **104 Area 7 Yucca Flat Atmospheric Test Sites**

Owner: NNSA / Soils - ER

Date CAU Transferred to Appendix IV: 7/11/2013

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
07-23-09	Atmospheric Test Site - Charlie (T-S)	Rad Contamination Area	Charlie (Operation Tumbler-Snapper)	Yucca Flat
07-23-10	Atmospheric Test Site - Dixie	Rad Contamination Area	Dixie	Yucca Flat
07-23-11	Atmospheric Test Site - Dixie	Rad Contamination Area	Dog (Operation Buster)	Yucca Flat
07-23-12	Atmospheric Test Site - Charlie (Bus)	Rad Contamination Area	Charlie (Operation Buster)	Yucca Flat
07-23-13	Atmospheric Test Site - Baker (Buster)	Rad Contamination Area	Baker (Operation Buster)	Yucca Flat
07-23-14	Atmospheric Test Site - Ruth	Rad Contamination Area	Ruth	Yucca Flat
07-23-15	Atmospheric Test Site T7-4	Rad Contamination Area	Wasp, Wasp Prime	Yucca Flat
07-23-16	Atmospheric Test Site B7-b	Rad Contamination Area	DeBaca, DonaAna, Doppler, Eddy and 9 more	Yucca Flat
07-23-17	Atmospheric Test Site - Climax	Rad Contamination Area	Climax	Yucca Flat

CAU Number: **106 Areas 5, 11 Frenchman Flat Atmospheric Sites**

Owner: NNSA / Soils - ER

Date CAU Transferred to Appendix IV: 10/14/2011

Use Restriction Information:

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP Rev #1 to State	N/A	7/21/2011	8/3/2011	8/3/2011	
CAIP to State	5/31/2010	4/12/2010	5/4/2010	5/4/2010	
CADD/CR to State	9/30/2011	9/26/2011	10/14/2011	10/14/2011	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
05-20-02	Evaporation Pond	Injection Well	NW Shore of Frenchman Lake	Frenchman Lake
05-23-05	Atmospheric Test Site - Able	Rad Contamination Area	Able (Operation Tumbler-Snapper)	Frenchman Lake
05-45-04	306 GZ Rad Contaminated Area	Craters	North of 5-07 Rd near Kay Blockhouse	Frenchman Lake
05-45-05	307 GZ Rad Contaminated Area	Craters	NW Shore of Frenchman Lake	Frenchman Lake

CAU Number: **107 Low Impact Soil Sites**

Owner: NNSA / Soils - ER

Date CAU Transferred to Appendix IV: 7/17/2009

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan Rev. 1 to State	N/A	4/2/2009	5/8/2009	5/8/2009	
SAFER Plan to State	9/30/2008	9/29/2008	10/28/2008	10/28/2008	
Closure Report to State	7/10/2009	6/25/2009	7/17/2009	7/17/2009	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
01-23-02	Atmospheric Test Site - High Alt	Rad Contamination Area	High Altitude (HA)	Yucca Flat
02-23-02	Contaminated Areas (2)	Rad Contamination Area	Calabash	Oak Spring
02-23-03	Contaminated Berm	Rad Contamination Area	Flask	Yucca Flat
02-23-10	Gourd-Amber Contamination Area	Rad Contamination Area	Gourd-Amber (Operation Bowline)	Oak Spring
02-23-11	Sappho Contamination Area	Rad Contamination Area	Sappho (Operation Grommet)	Yucca Flat
02-23-12	Scuttle Contamination Area	Rad Contamination Area	Scuttle (Operation Mandrel)	Oak Spring
03-23-24	Seaweed B Contamination Area	Rad Contamination Area	Seaweed B	Yucca Flat

CAU Number: **107 Low Impact Soil Sites**

Owner: NNSA / Soils - ER

Date CAU Transferred to Appendix IV: 7/17/2009

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-23-27	Adze Contamination Area	Rad Contamination Area	Adze (Operation Crosstie)	Paiute Ridge
03-23-28	Manzanas Contamination Area	Rad Contamination Area	Manzanas (Operation Mandrel)	Paiute Ridge
03-23-29	Truchas-Chamisal Contamination Area	Rad Contamination Area	Truchas-Chamisal (Operation Emery)	Yucca Flat
04-23-02	Atmospheric Test Site T4-a	Rad Contamination Area	Ray	Yucca Flat
05-23-06	Atmospheric Test Site	Rad Contamination Area	Able, Baker, Baker-2, Easy, Fox	Frenchman Lake
09-23-06	Mound of Contaminated Soil	Rad Contamination Area	U-9 ITS Y-30	Oak Spring
10-23-04	Atmospheric Test Site M-10	Rad Contamination Area	John	Oak Spring
18-23-02	U-18d Crater (Sulky)	Craters	U-18d Sulky	Buckboard Mesa

CAU Number: **108 Archived - Cabriolet Contamination Area**

Owner: NNSA / Soils - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **365 Baneberry Contamination Area**

Owner: NNSA / Soils - ER

Date CAU Transferred to Appendix IV: 10/26/2011

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	2/7/2011	12/14/2010	1/6/2011	1/6/2011	
CADD/CR to State	2/7/2012	9/28/2011	10/26/2011	10/26/2011	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
08-23-02	U-8d Contamination Area	Rad Contamination Area	Baneberry	Oak Spring

CAU Number: **367 Area 10 Sedan, Ess and Uncle Unit Craters**

Owner: NNSA / Soils - ER

Date CAU Transferred to Appendix IV: 7/15/2011

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	12/31/2009	12/14/2009	1/20/2010	1/20/2010	
CADD/CR to State	6/30/2011	6/14/2011	7/15/2011	7/15/2011	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
10-09-03	Mud Pit	Mud Pit	10-01 Road	Oak Spring
10-45-01	U-10h Crater (Sedan)	Craters	Sedan Crater	Oak Spring
10-45-02	Ess Crater Site	Craters	T-10a	Oak Spring
10-45-03	Uncle Crater Site	Craters	T-10	Oak Spring

CAU Number: **370 T-4 Atmospheric Test Site**

Owner: NNSA / Soils - ER

Date CAU Transferred to Appendix IV: 6/4/2009

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	4/30/2008	4/25/2008	5/7/2008	5/7/2008	
CADD/CR to State	5/29/2009	5/26/2009	6/4/2009	6/4/2009	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
04-23-01	Atmospheric Test Site T-4	Rad Contamination Area	Apple-1, Fox, Kepler, Nancy	Yucca Flat

CAU Number: **371 Johnnie Boy Crater and Pin Stripe**

Owner: NNSA / Soils - ER

Date CAU Transferred to Appendix IV: 8/25/2010

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	3/31/2009	3/3/2009	4/10/2009	4/10/2009	
CADD/CR To State	8/31/2010	8/3/2010	8/25/2010	8/25/2010	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
11-23-05	Pin Stripe Contamination Area	Rad Contamination Area	Pin Stripe	Plutonium Valley
18-45-01	U-18j-2 Crater (Johnnie Boy)	Craters	U-18j-2 (Johnnie Boy)	Buckboard Mesa

CAU Number: **372 Area 20 Cabriolet/Palanquin Unit Craters**

Owner: NNSA / Soils - ER

Date CAU Transferred to Appendix IV: 5/12/2011

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	6/30/2009	6/16/2009	7/17/2009	7/17/2009	
CADD/CR To State	5/31/2011	5/2/2011	5/12/2011	5/12/2011	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
18-45-02	Little Feller I Surface Crater	Craters	Airport Road	Buckboard Mesa
18-45-03	Little Feller II Surface Crater	Craters	Airport Road	Buckboard Mesa
20-23-01	U-20k Contamination Area	Rad Contamination Area	Palanquin	Trail Ridge
20-45-01	U-20L Crater (Cabriolet)	Craters	U-20L Crater	Trail Ridge

CAU Number: **373 Archived - Area 20 Palanquin Unit Crater**

Owner: NNSA / Soils - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **374 Area 20 Schooner Unit Crater**

Owner: NNSA / Soils - ER

Date CAU Transferred to Appendix IV: 8/5/2011

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP TO STATE	2/26/2010	2/9/2010	2/24/2010	2/24/2010	
CADD/CR to State	7/29/2011	7/13/2011	8/5/2011	8/5/2011	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
18-22-05	Drum	Housekeeping Waste	U-18a	Buckboard Mesa
18-22-06	Drums (20)	Housekeeping Waste	U-18a Danny Boy	Buckboard Mesa
18-22-08	Drum	Housekeeping Waste	U-18a Danny Boy	Buckboard Mesa
18-23-01	Danny Boy Contamination Area	Rad Contamination Area	U-18a	Buckboard Mesa
20-45-03	U-20u Crater (Schooner)	Craters	N Pahute Mesa Road	Trail Ridge

CAU Number: **375 Area 30 Buggy Unit Craters**

Owner: NNSA / Soils - ER

Date CAU Transferred to Appendix IV: 9/16/2011

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP TO STATE	4/30/2010	3/11/2010	3/29/2010	3/29/2010	
CADD/CR to State	8/31/2011	8/11/2011	9/16/2011	9/16/2011	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-23-22	Contaminated Soils Site	Rad Contamination Area		Jackass Flats
25-34-06	Test Cell A Bunker	Magazine/Bunker	Test Cell A	Jackass Flats
30-45-01	U-30a, b, c, d, e Craters	Craters	U-30a, b, c, d, e	Buckboard Mesa

CAU Number: **465 Hydronuclear**

Owner: NNSA / Soils - ER

Date CAU Transferred to Appendix IV: 11/20/2012

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	11/15/2011	11/7/2011	11/15/2011	11/15/2011	
Closure Report to State	12/21/2012	11/8/2012	11/20/2012	11/20/2012	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
00-23-01	Hydronuclear Experiment	Rad Contamination Area	Not Available	
00-23-02	Hydronuclear Experiment	Rad Contamination Area	Not Available	
00-23-03	Hydronuclear Experiment	Rad Contamination Area	Not Available	
06-99-01	Hydronuclear	Rad Contamination Area	Trailer 13	Yucca Lake

CAU Number: **466 Archived - Hydronuclear**

Owner: NNSA / Soils - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **467 Archived - Hydronuclear**

Owner: NNSA / Soils - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **569 Area 3 Yucca Flat Atmospheric Test Sites**

Owner: NNSA / Soils - ER

Date CAU Transferred to Appendix IV: 4/25/2013

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	3/13/2012	2/15/2012	2/21/2012	2/21/2012	
CADD/CR to State	5/6/2013	4/23/2013	4/25/2013	4/25/2013	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-23-09	T-3 Contamination Area	Rad Contamination Area	Annie, Franklin, George, Moth	Yucca Flat
03-23-10	T-3A Contamination Area	Rad Contamination Area	Harry, Hornet	Yucca Flat
03-23-11	T-3B Contamination Area	Rad Contamination Area	Fizeau	Yucca Flat
03-23-12	T-3S Contamination Area	Rad Contamination Area	Rio Arriba	Yucca Flat
03-23-13	T-3T Contamination Area	Rad Contamination Area	Catron	Yucca Flat
03-23-14	T-3V Contamination Area	Rad Contamination Area	Humboldt	Yucca Flat
03-23-15	S-3G Contamination Area	Rad Contamination Area	Coulomb-B	Yucca Flat
03-23-16	S-3H Contamination Area	Rad Contamination Area	Coulomb-A	Yucca Flat
03-23-21	Pike Contamination Area	Rad Contamination Area	Pike	Yucca Flat

CAU Number: **574 Neptune**

Owner: NNSA / Soils - ER

Date CAU Transferred to Appendix IV: 5/25/2012

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	9/30/2011	8/18/2011	9/26/2011	9/26/2011	
Closure Report to State	5/31/2012	5/3/2012	5/25/2012	5/25/2012	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-23-10	U12c.03 Crater (Neptune)	Rad Contamination Area	Neptune	Rainier Mesa
12-45-01	U12e.05 Crater (Blanca)	Craters	U12e.05	Rainier Mesa

CAU Number: **416 Project Shoal Area - Surface**

Owner: DOE / Offsites - OLM

Date CAU Transferred to Appendix IV: 2/13/1998

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	N/A	6/11/1997	6/26/1997	8/5/1997	
Closure Report to State	3/31/1998	1/9/1998	2/13/1998	2/13/1998	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
57-06-01	Muckpile	Muckpile	W of CAS 57-57-001	Fourmile Canyon
57-09-01	Mud Pit	Mud Pit	E of CAS 57-57-001	Fourmile Canyon
57-98-01	Waste Pile/Oil Cans (6)	Housekeeping Waste	Area of ECH-A	Fourmile Canyon

CAU Number: **417 Central Nevada Test Area - Surface**

Owner: DOE / Offsites - OLM

Date CAU Transferred to Appendix IV: 6/27/2002

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	8/15/1996	4/11/1997	4/21/1997	4/21/1997	This CAIP submission supercedes the one dated 08/28/1996.
CADD to State	10/30/1998	10/28/1998	12/2/1998	5/24/1999	
CAP to State	4/30/2000	4/14/2000	5/22/2000	5/22/2000	
Closure Report to State	8/31/2001	7/30/2001	9/17/2001	11/29/2001	
Draft Post-Closure Inspection Report	11/3/2010	11/3/2010	1/12/2011	N/A	
Draft 2012 Post-Closure Inspection and Monitoring Report	11/6/2012	11/5/2012	1/18/2013	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
58-05-01	Septic System	Leachfield	Support Trailer W of CMP	Moores Station

CAU Number: **417 Central Nevada Test Area - Surface**

Owner: DOE / Offsites - OLM

Date CAU Transferred to Appendix IV: 6/27/2002

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
58-05-02	Septic System	Leachfield	Support Trailer E of UC-3	Moores Station SW
58-05-03	Underground Storage Tank	Underground Storage Tank	UC-3 Recording Trailer Park	Moores Station SW
58-05-04	Septic System	Leachfield	UC-4 Support Trailer	Moores Station
58-05-05	Septic System	Leachfield	Manhole Covers SE of UC-3	Moores Station SW
58-05-06	Septic System	Leachfield	UC-3 Recording Trailer Park	Moores Station SW
58-07-01	Decon Facility Pit	Decon Pad	W of 58-09-01	Moores Station
58-09-01	Central Mud Pit	Mud Pit	E of UC-1	Moores Station
58-09-02	Mud Pit	Mud Pit	SW of 58-09-01	Moores Station
58-09-03	Mud Pits (5)	Mud Pit	UC-4	Moores Station
58-09-04	Mud Pit/Burrow Area	Mud Pit	UC-1 (HTH-1 Well)	Moores Station
58-09-05	Mud Pits (3)	Mud Pit	UC-1 Surface GZ	Moores Station
58-09-06	Mud Pits (5)	Mud Pit	UC-3	Moores Station SW
58-10-01	Shaker Pad Area	Drill Cuttings Debris	NE of UC-3	Moores Station SW
58-10-02	Shaker Pad Area	Drill Cuttings Debris	N of UC-4	Moores Station
58-10-03	Shaker Pad Area	Drill Cuttings Debris	E of UC-1	Moores Station

CAU Number: **417 Central Nevada Test Area - Surface**

Owner: DOE / Offsites - OLM

Date CAU Transferred to Appendix IV: 6/27/2002

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
58-10-04	Shaker Pad Area	Drill Cuttings Debris	Drainage S of UC-4	Moores Station
58-10-05	Shaker Pad Area	Drill Cuttings Debris	Drainage N and E of UC-4	Moores Station
58-10-06	Drilling Mud/Cuttings	Shaker Plant	N of UC-3	Moores Station SW
58-19-01	Scrap and Trash Dump	Waste Disposal Site	W of UC-3 RTP	Moores Station SW
58-25-01	Spill	Oil/Fuel Spills	S of UC-3 Mud Pit E	Moores Station SW
58-35-01	Burn Area	Burn Cage/Pit	W of 58-09-01	Moores Station
58-35-02	Burn Area	Burn Cage/Pit	UC-3 Recording Trailer Park	Moores Station SW
58-44-01	Drilling Mud/Grout Piles (2)	Other Spill Site	W of 58-09-01	Moores Station
58-44-02	Drilling Mud/Grout Piles (2)	Other Spill Site	W of 58-09-01	Moores Station
58-44-03	Drill Mud/Grout Spill Area	Other Spill Site	SE of UC-3	Moores Station SW
58-44-04	Drill Mud/Grout Spill Area	Other Spill Site	SW of UC-3	Moores Station SW
58-44-05	Grout Pile	Other Spill Site	NE of UC-1	Moores Station
58-44-06	Grout Pile	Other Spill Site	Approx. 3600 ft S of UC-1	Moores Station
58-98-01	Waste Pile (Drums, Filters etc.)	Housekeeping Waste	W of UC-3	Moores Station SW
58-98-02	Waste Pile (Drums, Filters etc.)	Housekeeping Waste	S of UC-3	Moores Station SW

CAU Number: **417 Central Nevada Test Area - Surface**

Owner: DOE / Offsites - OLM

Date CAU Transferred to Appendix IV: 6/27/2002

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
58-98-03	Waste Pile (Drums, Filters etc.)	Housekeeping Waste	Adjacent to 58-09-02	Moores Station SW
58-98-04	Waste Pile (Metal, Cable etc.)	Housekeeping Waste	Adjacent to 58-44-03	Moores Station SW
58-99-01	Protruding Pipes (2)	Underground Storage Tank	SE of UC-3	Moores Station SW

CAU Number: **100 Archived - Climax Mine**

Owner: NNSA / UGTA - ER

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **111 Area 5 WMD Retired Mixed Waste Pits**

Owner: NNSA / Industrial Sites - WM

Date CAU Transferred to Appendix IV: 2/21/2012

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CADD/CAP Rev 1 to State	N/A	12/9/2010	1/6/2011	1/6/2011	
CADD/CAP to State	9/30/2009	7/14/2009	8/19/2009	8/19/2009	
Closure Report to State	2/28/2012	2/9/2012	2/21/2012	2/21/2012	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
05-21-01	Mixed Waste Pits	Waste Disposal Trench	RWMS	Frenchman Lake

CAU Number: **207 Archived - Area 5 WMD Greater Confinement Disposal (GCD) Boreholes**

Owner: NNSA / Industrial Sites - WM

Date CAU Transferred to Appendix IV: 4/7/1998

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **383 Area 12 E-Tunnel Sites**

Owner: DTRA/DOE - Industrial Sites - ER

Date CAU Transferred to Appendix IV: 3/12/2007

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CADD/CR to State	N/A	2/22/2007	3/12/2007	3/12/2007	
CAIP to State	1/30/2004	12/22/2003	2/2/2004	2/2/2004	
CADD to State	3/31/2005	3/9/2005	3/18/2005	3/18/2005	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-06-06	Muckpile	Muckpile	E-Tunnel Portal	Rainier Mesa
12-25-02	Oil Spill	Oil/Fuel Spills	E-Tunnel Portal	Rainier Mesa
12-28-02	Radioactive Material	Tunnel Portal Area	E-Tunnel	Rainier Mesa

CAU Number: **433 Area 12 E-Tunnel Industrial Waste Water**

Owner: DTRA/DOE - Industrial Sites - ER

Date CAU Transferred to Appendix IV: 3/19/1998

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	9/2/1997	8/26/1997	9/2/1997	3/19/1998	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-23-03	Evaporation Ponds (3)	Rad Contamination Area	U-12e Portal	Rainier Mesa
12-28-04	Waste Water (Tunnel Effluent)	Tunnel Portal Area	E-Tunnel Portal	Rainier Mesa

CAU Number: **1 Area 12 Housekeeping Sites**

Owner: DTRA

Date CAU Transferred to Appendix IV: 5/12/1994

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-22-03	Buckets (3)	Housekeeping Waste	U-12n.20 PH #1	Rainier Mesa
12-24-06	Battery	Housekeeping Waste	RSM 12 T 18	Rainier Mesa

CAU Number: **2 Area 12 Housekeeping Sites**

Owner: DTRA

Date CAU Transferred to Appendix IV: 5/20/1994

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-22-14	Drums (2)	Housekeeping Waste	U-12e.05 #3	Rainier Mesa

CAU Number: **3 Area 12 Housekeeping Sites**

Owner: DTRA

Date CAU Transferred to Appendix IV: 8/15/1994

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-22-16	Drums (2)	Housekeeping Waste	Area 12 Batch Plant	Rainier Mesa
12-24-04	Batteries (2)	Housekeeping Waste	UE-12n #3	Rainier Mesa

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Appendix IV - Closed Corrective Action Units

CAU Number: **30 Area 12 Rainier Mesa Housekeeping Sites**

Owner: DTRA

Date CAU Transferred to Appendix IV: 8/26/1996

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	9/3/1996	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-22-02	Drum	Housekeeping Waste	U-12n.10A	Rainier Mesa
12-22-04	Drum	Housekeeping Waste	UN03/U-12n.20 PH #1	Rainier Mesa
12-22-05	Bucket	Housekeeping Waste	U-12n.20 PH #1	Rainier Mesa
12-22-08	Drums (8)	Housekeeping Waste	U-12t.04 CH #1	Rainier Mesa
12-22-09	Drum	Housekeeping Waste	UE-12n #16	Rainier Mesa
12-22-10	Drum; Oil Filter	Housekeeping Waste	U-12e.PS #1	Rainier Mesa
12-22-11	Drum	Housekeeping Waste	RSM 12 P 2	Rainier Mesa
12-22-12	Drum; 2 Buckets	Housekeeping Waste	UE-12p #3 (149)	Rainier Mesa
12-22-34	Gas Can	Housekeeping Waste	U-12n.20 PH #1	Rainier Mesa
12-24-13	Batteries	Housekeeping Waste	Rooster Point	Rainier Mesa
12-24-19	Battery	Housekeeping Waste	T-Tunnel Trailer Park	Rainier Mesa

CAU Number: **31 Area 12 Base Camp Housekeeping Sites**

Owner: DTRA

Date CAU Transferred to Appendix IV: 8/12/1996

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	9/3/1996	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-22-17	Drums (2)	Housekeeping Waste	Area 12 Batch Plant	Rainier Mesa
12-22-18	Drum	Housekeeping Waste	Area 12 Camp	Rainier Mesa

CAU Number: **32 Area 12 E-Tunnel Housekeeping Sites**

Owner: DTRA

Date CAU Transferred to Appendix IV: 8/26/1996

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	9/3/1996	8/12/1996	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-01-03	Water Tank	Aboveground Storage Tank	U-12e Portal	Rainier Mesa
12-01-04	Diesel Oil Tank	Aboveground Storage Tank	U-12e Portal	Rainier Mesa
12-29-01	Grout	Housekeeping Waste	U-12e Portal	Rainier Mesa
12-29-02	Drum	Housekeeping Waste	U-12e Portal	Rainier Mesa
12-29-03	Buckets (15)	Housekeeping Waste	U-12e Portal	Rainier Mesa
12-29-04	Chemicals	Abandoned Chemicals	U-12e Portal	Rainier Mesa
12-29-05	Chemicals	Abandoned Chemicals	U-12e Portal	Rainier Mesa
12-99-06	Gas Cylinder	Housekeeping Waste	U-12e Portal	Rainier Mesa

CAU Number: **33 Area 12 T-Tunnel Housekeeping**

Owner: DTRA

Date CAU Transferred to Appendix IV: 8/5/1996

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	9/3/1996	N/A	N/A	N/A	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-22-21	Drum	Housekeeping Waste	T-Tunnel Pond #2	Rainier Mesa
12-22-22	Drum	Housekeeping Waste	T-Tunnel Pond #2	Rainier Mesa
12-22-23	Paint Cans	Housekeeping Waste	I, J, K Tunnels	Rainier Mesa
12-22-24	Drums (5)	Housekeeping Waste	I, J, K Tunnels	Rainier Mesa
12-22-30	Drums (3)	Housekeeping Waste	J-Tunnel	Rainier Mesa
12-22-31	Drums (2)	Housekeeping Waste	J-Tunnel	Rainier Mesa

CAU Number: **384 Archived - Other DTRA Sites**

Owner: DTRA

Date CAU Transferred to Appendix IV: 2/11/2008

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **434 Area 3 Satellite Vehicle Housekeeping Sites**

Owner: DTRA

Date CAU Transferred to Appendix IV: 1/29/1997

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	9/30/1997	1/15/1997	1/29/1997	1/29/1997	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-26-01	Lead Doors	Housekeeping Waste	U-3kb	Yucca Flat
03-99-05	Satellite Vehicle, Asbestos	Housekeeping Waste	U-3ky	Yucca Flat

CAU Number: **435 Area 16 Tunnel Portal Housekeeping Sites**

Owner: DTRA

Date CAU Transferred to Appendix IV: 5/4/1998

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	9/30/1997	8/26/1997	10/17/1997	5/4/1998	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
16-22-01	Drums	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-02	Drums (30)	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-03	Drums (15)	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-04	Drum	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-07	Drum	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-08	Drum	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-09	Drum	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-10	Drum	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-11	Drums	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-14	Drums	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-15	Drum	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-16	Drum	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-17	Drums	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-18	Drums	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-19	Drums	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring

CAU Number: **435 Area 16 Tunnel Portal Housekeeping Sites**

Owner: DTRA

Date CAU Transferred to Appendix IV: 5/4/1998

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
16-22-20	Drum	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-22	Drums (2)	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-23	Drum	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-24	Drums (3)	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-25	Drum	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-22-26	Drum	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-24-01	Battery	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-24-03	Battery	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-24-04	Battery	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-99-02	Explosive Storage Area	Other	16 Tunnel Portal	Tippipah Spring
16-99-03	Misc. Bldg. Materials	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring

CAU Number: **436 Area 12 Rainier Mesa N-Tunnel Housekeeping Site**

Owner: DTRA

Date CAU Transferred to Appendix IV: 3/24/1997

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	9/30/1997	11/18/1996	3/24/1997	3/24/1997	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-25-01	Oil Spill	Housekeeping Waste	U-12n.01-04	Rainier Mesa

CAU Number: **437 Area 12 Drillholes**

Owner: DTRA

Date CAU Transferred to Appendix IV: 12/10/1998

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	N/A	6/25/1997	7/18/1997	7/18/1997	
Closure Report to State	9/30/1998	10/1/1998	12/10/1998	12/10/1998	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-30-13	Gas Sampling Pipe	Drillhole	U-12n.06 PS #1	Rainier Mesa
12-30-20	Cellar	Drillhole	U-12t.09 PS #1AA	Rainier Mesa
12-30-22	Casing Stub; Staining	Drillhole	UE-12t #8	Rainier Mesa
12-30-23	Casing Stub; Staining	Drillhole	UE-12p #6	Rainier Mesa
12-31-01	U-12n.10 Vent hole	Vent Hole	U-12n.10 Vent Hole	Rainier Mesa
12-32-01	Cable Hole	Cable Hole	U-12e.14 HFR CH #1	Rainier Mesa
12-32-02	Cable Hole	Cable Hole	U-12n.10A EMP CH	Rainier Mesa
12-32-03	Cable Hole	Cable Hole	U-12n #1 CH	Rainier Mesa
12-32-06	Cable Hole (Radioactive)	Cable Hole	U-12n CH #1	Rainier Mesa
12-32-07	Cable Hole (Radioactive)	Cable Hole	U-12n CH #1	Rainier Mesa
12-32-08	Cable Hole (Radioactive)	Cable Hole	U-12n CH #3	Rainier Mesa

CAU Number: **438 Area 12 E-Tunnel Mesa Mud Pits**

Owner: DTRA

Date CAU Transferred to Appendix IV: 10/26/1998

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	12/1/1997	10/28/1997	12/1/1997	12/1/1997	
CADD/CR to State	9/30/1998	9/24/1998	10/26/1998	10/26/1998	Submitted as CADD/CR. Document contains CAUs 438, 439, 440, 470.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-09-02	Mud Pit	Mud Pit	U-12e.18 PS #1V	Rainier Mesa

CAU Number: **439 Area 12 N-Tunnel Mesa Mud Pits**

Owner: DTRA

Date CAU Transferred to Appendix IV: 10/26/1998

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	12/1/1997	10/28/1997	12/1/1997	12/1/1997	
CADD/CR to State	9/30/1998	9/24/1998	10/26/1998	10/26/1998	Submitted as CADD/CR. Document contains CAUs 438, 439, 440, 470.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-09-05	Mud Pit	Mud Pit	U-12n	Rainier Mesa
12-09-07	Mud Pit	Mud Pit	U-12n.20 PH #1	Rainier Mesa

CAU Number: **440 Area 12 T-Tunnel Mesa Mud Pits**

Owner: DTRA

Date CAU Transferred to Appendix IV: 10/26/1998

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	12/1/1997	10/28/1997	12/1/1997	12/1/1997	
CADD/CR to State	9/30/1998	9/24/1998	10/26/1998	10/26/1998	Submitted as CADD/CR. Document contains CAUs 438, 439, 440, 470.
Closure Report to State	12/31/1998	9/24/1998	10/26/1998	10/26/1998	Submitted as CADD/CR. Document contains CAUs 438, 439, 440, 470.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-09-06	Mud Pit	Mud Pit	U-12t Trailer Park	Rainier Mesa

CAU Number: **469 Area 12 Drums at N-Tunnel**

Owner: DTRA

Date CAU Transferred to Appendix IV: 5/4/1998

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	6/30/1998	4/7/1998	5/4/1998	5/4/1998	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-22-25	Drums (3)	Housekeeping Waste	N-Tunnel Store Yard	Rainier Mesa

CAU Number: **470 Area 12 Mud Pit and Soil Staining on Rainier Mesa**

Owner: DTRA

Date CAU Transferred to Appendix IV: 10/26/1998

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	11/30/1997	2/10/1998	3/16/1998	3/16/1998	
CADD/CR to State	9/30/1998	9/24/1998	10/26/1998	10/26/1998	Submitted as CADD/CR. Document contains CAUs 438, 439, 440, 470.

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-30-15	Mud Pit	Mud Pit	UE-12t #5	Rainier Mesa
12-30-19	Soil Staining	Housekeeping Waste	UE-12n #14	Rainier Mesa

CAU Number: **471 Area 12 Conditional Release Storage Yards**

Owner: DTRA

Date CAU Transferred to Appendix IV: 11/2/1998

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	9/30/1998	10/1/1998	11/2/1998	11/2/1998	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-42-01	Conditional Release Storage Yard	Conditional Release Storage	U-12e	Rainier Mesa
12-42-02	Conditional Release Storage Yard	Conditional Release Storage	U-12n	Rainier Mesa
12-42-03	Conditional Release Storage Yard	Conditional Release Storage	U-12p	Rainier Mesa
12-42-04	Conditional Release Storage Yard	Conditional Release Storage	U-12n	Rainier Mesa

CAU Number: **472 Area 16 Tanks at 16 Tunnel Portal**

Owner: DTRA

Date CAU Transferred to Appendix IV: 11/24/1998

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	6/1/1998	3/25/1998	5/4/1998	5/4/1998	
Closure Report to State	11/2/1998	10/22/1998	11/24/1998	11/24/1998	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
16-01-01	Aboveground Storage Tank	Aboveground Storage Tank	16 Tunnel Portal	Tippipah Spring
16-01-02	Aboveground Storage Tank	Aboveground Storage Tank	16 Tunnel Portal	Tippipah Spring
16-02-01	Underground Storage Tank	Underground Storage Tank	16 Tunnel Portal	Tippipah Spring

CAU Number: **473 Area 16 Spills at 16 Tunnel Portal**

Owner: DTRA

Date CAU Transferred to Appendix IV: 3/2/1999

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
SAFER Plan to State	6/30/1998	5/27/1998	8/3/1998	11/24/1998	
Closure Report to State	2/7/1999	2/4/1999	3/2/1999	3/2/1999	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
16-14-01	Transformer; Pad	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring
16-25-01	Oil Spill	Housekeeping Waste	16 Tunnel Portal	Tippipah Spring

CAU Number: **475 Archived - Area 12 P-Tunnel Muckpile**

Owner: DTRA

Date CAU Transferred to Appendix IV: 8/17/2005

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	9/30/2003	2/19/2003	3/17/2003	3/17/2003	
CADD to State	9/30/2004	9/29/2004	10/14/2004	10/14/2004	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **476 Area 12 T-Tunnel Muckpile**

Owner: DTRA

Date CAU Transferred to Appendix IV: 6/27/2007

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CADD/CR to State	N/A	5/29/2007	6/27/2007	6/27/2007	
CAIP to State	3/31/2000	3/2/2000	3/3/2000	3/3/2000	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-06-02	Muckpile	Muckpile	T-Tunnel	Rainier Mesa

CAU Number: **477 Area 12 N-Tunnel Muckpile**

Owner: DTRA

Date CAU Transferred to Appendix IV: 6/20/2007

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CADD/CR to State	N/A	6/6/2007	6/20/2007	6/20/2007	
CAIP to State	3/1/1999	6/5/1997	8/27/1997	8/27/1997	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-06-03	Muckpile	Muckpile	N-Tunnel	Rainier Mesa

CAU Number: **478 Area 12 T-Tunnel Ponds**

Owner: DTRA

Date CAU Transferred to Appendix IV: 7/13/2007

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CADD/CR to State	N/A	5/29/2007	7/13/2007	7/13/2007	
CAIP to State	9/30/2003	2/27/2003	3/28/2003	3/28/2003	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-23-01	Ponds (5), RAD Area	Tunnel Pond	T-Tunnel	Rainier Mesa

CAU Number: **479 Archived - Area 12 Contaminated Storage Bldg. at U-12n CH #1, 23**

Owner: DTRA

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **480 Area 12 N-Tunnel Ponds**

Owner: DTRA

Date CAU Transferred to Appendix IV: 6/8/2007

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CADD/CR to State	N/A	5/14/2007	6/8/2007	6/8/2007	
CAIP to State	9/30/2003	2/26/2003	3/17/2003	3/17/2003	
CADD to State	9/30/2004	9/29/2004	10/8/2004	10/8/2004	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-23-04	Ponds (5), RAD Area	Tunnel Pond	N-Tunnel	Rainier Mesa

CAU Number: **481 Area 12 T-Tunnel Conditional Release Storage Yard**

Owner: DTRA

Date CAU Transferred to Appendix IV: 12/29/2008

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
Closure Report to State	12/31/2008	11/28/2008	12/29/2008	12/29/2008	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-42-05	Housekeeping Waste	Housekeeping Waste	U-12t	Rainier Mesa

CAU Number: **482 Area 15 U15a/e Muckpiles and Ponds**

Owner: DTRA

Date CAU Transferred to Appendix IV: 9/25/2007

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CADD/CR to State	N/A	6/6/2007	9/25/2007	9/25/2007	
CAIP to State	9/30/2002	7/1/2002	7/30/2002	7/30/2002	
CAP to State	12/31/2004	12/29/2004	1/10/2005	1/10/2005	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
15-06-01	U15e Muckpile	Muckpile	U-15a/e Muckpile	Oak Spring
15-06-02	U15a Muckpile	Muckpile	U-15a/e Muckpile	Oak Spring
15-38-01	Area 15 U15a/e Ponds	Tunnel Pond	U-15a/e Muckpile	Oak Spring

CAU Number: **483 Archived - Area 15 Climax Hoist/U-15a Muckpile**

Owner: DTRA

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **503 N-Tunnel Compressor/Blower Pad**

Owner: DTRA

Date CAU Transferred to Appendix IV: 12/16/2005

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	2/28/2005	2/16/2005	2/25/2005	2/25/2005	
CADD/CR to State	11/30/2005	11/28/2005	12/16/2005	12/16/2005	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-25-12	Oil Stained Soil and Concrete	Oil/Fuel Spills	500' NNW of N-Tunnel Portal	Rainier Mesa

CAU Number: **504 16a-Tunnel Muckpile**

Owner: DTRA

Date CAU Transferred to Appendix IV: 9/25/2007

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

NA

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CADD/CR to State	N/A	8/2/2007	9/25/2007	9/25/2007	
CAIP to State	3/30/2001	3/19/2001	4/6/2001	4/6/2001	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
16-06-01	Muckpile	Muckpile	16 Tunnel	Tippipah Spring
16-23-01	Contaminated Burial Pit	Rad Contamination Area	16 Tunnel Portal	Tippipah Spring
16-23-02	Contaminated Area	Rad Contamination Area	DOUBLE PLAY	Tippipah Spring
16-99-01	Concrete Construction Waste	Construction Waste Landfill	16 Tunnel Portal	Tippipah Spring

CAU Number: **559 T-Tunnel Compressor/Blower Pad**

Owner: DTRA

Date CAU Transferred to Appendix IV: 12/21/2006

Use Restriction Information:

The future use of any land related to this Corrective Action Unit (CAU), as described by the above surveyed location, is restricted from any DOE or Air Force activity that may alter or modify the containment control as approved by the state and identified in the CAU Closure Report or other CAU documentation unless appropriate concurrence is obtained in advance.

Post-Closure Monitoring:

Post-Closure Monitoring is required for this CAU.

Milestone	Deadline	Submitted	Milestone NOC Date	Approval Date	Milestone Comments
CAIP to State	2/28/2005	2/16/2005	3/3/2005	3/3/2005	
CADD/CR to State	11/30/2006	11/28/2006	12/21/2006	12/21/2006	

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-25-13	Oil Stained Soil and Concrete	Oil/Fuel Spills	200' W of T-Tunnel Portal	

CAU Number: **999 Archived – NTS Miscellaneous Sites**

Owner: N/A

Date CAU Transferred to Appendix IV: 11/24/2003

Use Restriction Information:

No Use Restrictions are required for this site.

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
N/A				

CAU Number: **4000 Archived – No Further Action Sites**

Owner: N/A

Date CAU Transferred to Appendix IV: N/A

Use Restriction Information:

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
02-02-01	Underground Storage Tanks	Underground Storage Tank	U-2gg PS #1A	Oak Spring
03-23-18	Waste Disposal Site	Waste Disposal Site	U-3ah and U-3at	Yucca Flat
04-02-01	Gas Sampling Tanks (2)	Underground Storage Tank	U-4q	Yucca Flat
04-08-01	Waste Disposal Site	Waste Disposal Site	Orange Road at 4-04 Road	Yucca Flat
11-99-01	Bomb Casing	Buried Ordnance Site	Pu Valley	Plutonium Valley
12-01-06	Aboveground Storage Tank	Aboveground Storage Tank	U-12b Portal	Rainier Mesa
12-01-07	Aboveground Storage Tank	Aboveground Storage Tank	U-12b Portal	Rainier Mesa
12-02-10	UST 12-16-2	Underground Storage Tank	Bldg. 16	Rainier Mesa
12-12-01	Change House Boiler	Boiler	Miners Change House	Rainier Mesa
12-20-01	Injection Well	Injection Well	Machine Shop	Rainier Mesa
16-02-02	Underground Storage Tank	Underground Storage Tank	Area 16 Camp	Tippipah Spring
16-99-05	Gas Line	Other	Area 16 Camp	Tippipah Spring
18-99-01	Military Tank	Other	Little Feller II	Buckboard Mesa
18-99-02	Military Jeeps (2)	Other	Little Feller I	Buckboard Mesa
18-99-04	Military Tank	Other	Little Feller I	Buckboard Mesa

CAU Number: **4000 Archived – No Further Action Sites**

Owner: N/A

Date CAU Transferred to Appendix IV: N/A

Use Restriction Information:

Post-Closure Monitoring:
NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
18-99-05	Core in Boxes	Other	U-18a Danny Boy	Buckboard Mesa
18-99-07	Core	Other	U-18d Sulky	Buckboard Mesa
20-20-01	Injection Well	Injection Well	U-20ac	Scrugham Peak
20-22-02	Drum; Buckets (2)	Housekeeping Waste	U-20p	Trail Ridge
20-22-04	Drums (4); Buckets	Housekeeping Waste	U-20p	Trail Ridge
20-22-05	Drum	Housekeeping Waste	U-20p	Trail Ridge
20-22-13	Drums (3)	Housekeeping Waste	U-20e	Silent Butte
20-22-23	Drum	Housekeeping Waste	U-20z	Silent Butte
20-99-04	Gas Cylinder	Housekeeping Waste	U-20z Pad	Silent Butte
23-02-05	Underground Storage Tank	Underground Storage Tank	Building 129/T-128	Mercury

CAU Number: **5000 Archived – Archived Corrective Action Sites**

Owner: N/A

Date CAU Transferred to Appendix IV: N/A

Use Restriction Information:

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
01-09-05	UE-1i Mud Pit (1)	Mud Pit	UE-1i	Yucca Flat
01-09-08	UE-1q Mud Pit (1)	Mud Pit	UE-1q	Yucca Flat
01-10-01	Shaker Plant	Facility	Area 1 Camp	
01-23-01	Debris; Twisted Metal/Concrete	Rad Contamination Area	Apple-2	Yucca Flat
01-42-01	Cond. Release Storage Yd. - East	Conditional Release Storage	Area 1 Camp	Tippipah Spring
01-42-02	Cond. Release Storage Yd. - West	Conditional Release Storage	Area 1 Camp	Tippipah Spring
02-01-02	Drill Collar Casing	Other	Circle Road	Yucca Flat
02-03-01	Sewage Lagoons (2)	Sewage Lagoon	Area 2 Camp	Oak Spring
02-22-02	Drums (239)	Housekeeping Waste	LANL/LLNL	
02-26-01	Lead (Concrete Box w/Lining)	Lead	T-2b	Oak Spring
02-26-07	Gun Turret w/Lead in Barrel	Lead	Bunker 2-300	Oak Spring
02-57-071	U-2ct Cavity	Underground Test/Detonation Cavity		Oak Spring
03-01-01	Aboveground Storage Tank	Aboveground Storage Tank	U-3kb	Yucca Flat
03-20-06	Waste Disposal/CN-C11	Injection Well	Core/ETS Building	Yucca Flat
03-47-01	Vacuum Truck Flushing Pond	Other Ponds/Lagoons	Area 3 Mud Plant	Yucca Flat

CAU Number: **5000 Archived – Archived Corrective Action Sites**

Owner: N/A

Date CAU Transferred to Appendix IV: N/A

Use Restriction Information:

Post-Closure Monitoring:
NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
03-59-04	WX-6 ETS Building Septic System	Septic System	WX-6 ETS Bldg	
04-26-02	Lead on Instrument Bunker	Lead	Bunker 4-390	Yucca Flat
05-03-01	Septic System	Sewage Lagoon	RWMS	Frenchman Lake
05-18-01	Chemical Storage Bunker	Magazine/Bunker	Triple Point Bunker	Frenchman Lake
05-19-03	Greater Confinement Disposal Brhls	Injection Well	RWMS	
05-20-01	Open Well	Injection Well	DOD Camp, S of CP-6	Yucca Lake
05-22-04	Drum	Housekeeping Waste	RNM 2s Well	Frenchman Lake
05-22-07	Gas Block	Housekeeping Waste	U-5e SGZ	
06-01-03	Trailer-Mounted Diesel Tank 38061	Aboveground Storage Tank	Upper Monastery at 6-04 Rd	Yucca Lake
06-01-04	AST Tank Farm	Aboveground Storage Tank	Area 6	Yucca Lake
06-07-02	Decon Pad (Old)	Decon Pad	Building CP6	
06-07-03	Decon Laundry	Decon Pad	Decon Pad	
06-17-01	Concrete Waste Water Catch	Sump (Cellar)	CP-6 Decon Pad	
06-42-01	Cond. Release Storage Yd - East	Conditional Release Storage	Yucca Lake	Yucca Lake
06-42-02	Cond. Release Storage Yd - West	Conditional Release Storage	Yucca Lake	Yucca Lake
06-44-01	Spill	Housekeeping Waste	Warehouse H	Yucca Lake
06-99-06	Sump	Sump (Cellar)	Well 3	Yucca Lake
06-99-07	Sump	Sump (Cellar)	Wells C and C1	Yucca Lake

CAU Number: **5000 Archived – Archived Corrective Action Sites**

Owner: N/A

Date CAU Transferred to Appendix IV: N/A

Use Restriction Information:

Post-Closure Monitoring:
NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
07-02-02	Underground Storage Tank	Underground Storage Tank	U-7r	Yucca Flat
07-02-03	Underground Storage Tank	Underground Storage Tank	Bunker 7-800	Yucca Flat
07-19-01	Waste Disposal Site	Waste Disposal Site	3-05 Road at G Road	Yucca Flat
07-23-01	Contaminated Surface Debris	Waste Disposal Site	Bunker 7-300	Yucca Flat
07-39-01	Bunker 7-800	Pu Contaminated Soils		Yucca Flat
08-23-08	Contamination Area	Contaminated Soil Site	Area 8 Trailer Park	Oak Spring
09-03-01	Mud Pit	Mud Pit	U-9y	Oak Spring
09-20-02	Injection Well	Injection Well	Containment Shop	Yucca Flat
09-21-001-09MG	Disposal Trench	Waste Disposal Trench	E of Area 9 Magazines	Stinking Spring SE
10-23-01	Metal Debris (RAD)	Rad Contamination Area	Scooter	Oak Spring
11-22-05	Drums (3)	Housekeeping Waste	UE-11d GZ	
12-01-08	Aboveground Storage Tanks (2)	Aboveground Storage Tank	B-Tunnel Compressor Pad	Rainier Mesa
12-02-11	UST-P-2	Underground Storage Tank	Bldg. 16	Rainier Mesa
12-06-01	Muckpile	Muckpile	P-Tunnel	Rainier Mesa
12-06-04	Muckpile	Muckpile	G-Tunnel	Rainier Mesa
12-15-02	Disposal Site	Sanitary Landfill	Area 12 Camp	
12-21-01	Waste Disposal Trench	Waste Disposal Trench	Area 12 Camp	Rainier Mesa
12-23-02	Contaminated Storage Building	Rad Contamination Area	U-12n CH #1,2,3	Rainier Mesa

CAU Number: **5000 Archived – Archived Corrective Action Sites**

Owner: N/A

Date CAU Transferred to Appendix IV: N/A

Use Restriction Information:

Post-Closure Monitoring:
NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
12-23-08	Mud Pit and Cellar	Rad Contamination Area	U-9 ITS W-22	Oak Spring
12-25-05	UST Oil Line Release	Oil/Fuel Spills	Area 12 Fleet Operations	Rainier Mesa
12-25-07	Spill H920723D452 (from UST 12-16-2)	Oil/Fuel Spills	Bldg. 16	Rainier Mesa
12-26-02	Lead Bricks; Sheets	Lead	I, J, K Tunnels	Rainier Mesa
12-28-03	U-12a Portal Housekeeping Debris	Housekeeping Waste	U-12a Portal	Rainier Mesa
12-28-05	U-12f Tunnel Portal	Tunnel Portal Area	U-12f Tunnel Portal	Rainier Mesa
12-28-06	Tunnel Portal	Tunnel Portal Area	U-12c Portal	Rainier Mesa
12-28-07	Tunnel Portal	Tunnel Portal Area	U-12d Portal	Rainier Mesa
12-28-08	Tunnel Portal	Tunnel Portal Area	U-12b Portal	Rainier Mesa
12-30-16	Manhole for Gas/Air Line	Drillhole	Area 12 Camp	Rainier Mesa
12-30-21	Monitoring Well	Drillhole	UE-12t #6	
12-38-01	P-Tunnel Surface Release Point	Tunnel Pond	P-Tunnel	Rainier Mesa
12-46-01	Bottled Gas Storage	Compressed Gas Cylinders	Building 12-039	
14-37-01	Sump	Sump (Cellar)	UE-14b Wellhead M.P.	Mine Mountain
15-01-01	Aboveground Storage Tank	Aboveground Storage Tank	Climax Hoist	Oak Spring
15-01-04	Cement Cistern	Aboveground Storage Tank	Climax Hoist	Oak Spring
15-09-02	Marble #3 (ME-3) Mud Pit (1)	Mud Pit	Marble #3 (ME-3)	Oak Spring
15-22-05	Drums	Housekeeping Waste	Oak Springs Road	Oak Spring

CAU Number: **5000 Archived – Archived Corrective Action Sites**

Owner: N/A

Date CAU Transferred to Appendix IV: N/A

Use Restriction Information:

Post-Closure Monitoring:
NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
15-22-26	Gas Can	Housekeeping Waste	Climax Hoist	Oak Spring
15-22-30	Misc. Fuel Cans (Gas & Oil)	Housekeeping Waste	Barricade 8-1c	Oak Spring
15-23-04	Ponds (4)	Rad Contamination Area	Tiny Tot	Oak Spring
15-28-01	Mine Portals	Tunnel Portal Area	Tiny Tot Portals	Oak Spring
15-28-02	Open Shaft	Tunnel Portal Area	8-1c Gate	Oak Spring
15-28-03	Mine Portal	Tunnel Portal Area	RSM C-18	Oak Spring
16-20-01	Injection Well	Injection Well	Equip. MX Facility	Tippipah Spring
16-20-02	Injection Well	Injection Well	Generator Shop	Tippipah Spring
17-99-01	Burn Pit	Burn Cage/Pit	Unknown	Ammonia Tanks
18-01-02	Spill Site	Oil/Fuel Spills	17 Camp Generator Shack	Ammonia Tanks
18-19-01	Waste Disposal Site	Waste Disposal Site	Airport Trailer Park	Buckboard Mesa
18-35-01	Burn Pit/Trenches	Burn Cage/Pit	17 Camp	Buckboard Mesa
18-45-04	U-18a Crater (Danny Boy)	Craters	U-18a Crater	Buckboard Mesa
18-46-01	Gas Cylinders (2)	Housekeeping Waste	Pahute Airstrip	Buckboard Mesa
18-57-001	U-18d Cavity	Underground Test/Detonation Cavity		Buckboard Mesa
18-99-06	Core in Boxes	Other	U-18d Sulky	Buckboard Mesa
18-99-08	Core in Boxes	Other	U-18a Danny Boy	Buckboard Mesa
19-24-01	Batteries (4)	Housekeeping Waste	U-19ay	Dead Horse Flat

CAU Number: **5000 Archived – Archived Corrective Action Sites**

Owner: N/A

Date CAU Transferred to Appendix IV: N/A

Use Restriction Information:

Post-Closure Monitoring:
NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
20-02-01	Underground Storage Tank	Underground Storage Tank	U-20bc Cellar	Silent Butte
20-02-02	Underground Storage Tanks	Underground Storage Tank	U-20bd	Silent Butte
20-19-02	Photochemical Drain	Waste Disposal Site	Area 20 Camp, Trailer 992	Silent Butte
20-20-03	Injection Well	Injection Well	Pahute Mesa Well #1	Silent Butte
20-20-04	Injection Well	Injection Well	UE-20n #1	Scrugham Peak
20-20-05	Injection Well	Injection Well	U-20az PS	Scrugham Peak
20-45-02	U-20k Crater (Palanquin)	Craters	U-20k	Trail Ridge
22-03-02	Sewage Lagoons	Sewage Lagoon	Main Gate (Gate 100)	
22-19-05	Maintenance/Disposal Area	Waste Disposal Site	Airstrip	
22-99-02	Water Fill	Housekeeping Waste	Gate 100	Camp Desert Rock
23-01-01	Aboveground Storage Tank	Aboveground Storage Tank	Building 790	Mercury
23-02-02	Subsurface Piping	Underground Storage Tank	Building 503	Mercury
23-03-01	Sewage Lagoons	Sewage Lagoon	Building 1200	Camp Desert Rock
23-05-03	Leachfield/Sump	Leachfield	Building 540	
23-12-01	Boiler (2)	Boiler	Mercury Cafeteria	Mercury
23-44-01	Fuel Spill	Housekeeping Waste	Bulk Fuel Storage Area	
23-99-02	Burn Pit	Burn Cage/Pit	Mercury Salvage Yard	
23-99-04	Salvage Yard	Other	TR-24	

CAU Number: **5000 Archived – Archived Corrective Action Sites**

Owner: N/A

Date CAU Transferred to Appendix IV: N/A

Use Restriction Information:

Post-Closure Monitoring:
NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
23-99-05	Fire Equipment Building	Other	Warehouse R; Building 129	Mercury
25-01-10	Aboveground Storage Tank	Aboveground Storage Tank	Building 4838	Jackass Flats
25-01-12	Aboveground Storage Tank	Aboveground Storage Tank	X-Tunnel Portal	Striped Hills
25-01-13	Aboveground Storage Tank	Aboveground Storage Tank	Mine Mountain Road	Topopah Spring
25-03-02	Sewage Lagoon	Sewage Lagoon	Control Center	
25-03-03	Sewage Lagoon	Sewage Lagoon	25 Central Support Area	
25-03-04	Sewage Lagoon (2)	Sewage Lagoon	Engine Test Stand 1	Jackass Flats
25-04-02	Septic Tank/System	Septic Tank	J-5 Trailer	Jackass Flats
25-05-02	Leachfield	Leachfield	R-MAD Facility	Skull Mountain
25-05-10	Leachfield	Leachfield	Steam Plant Complex	Jackass Flats
25-05-11	Leachfield	Leachfield	Inactive Service Station	Jackass Flats
25-08-01	Construction Waste Dump	Waste Dump	E-MAD Facility	
25-22-13	Drums	Housekeeping Waste	E-MAD Facility	
25-23-08	Radioactively Contaminated Leachfield and Debris	Rad Contamination Area	Bldg. 3161, Jr. Hot Cell	Skull Mountain
25-23-15	Contaminated Waste Dump #4	Rad Contamination Area	Central Support Area	
25-24-16	Batteries	Housekeeping Waste	E-MAD Facility	
25-30-01	Well Head	Injection Well	Landfill 25-15-03	Skull Mountain

CAU Number: **5000 Archived – Archived Corrective Action Sites**

Owner: N/A

Date CAU Transferred to Appendix IV: N/A

Use Restriction Information:

Post-Closure Monitoring:

NA

CAS Number	*CAS Description*	*Functional Category*	*Test / Location*	*Map Name*
25-99-19	Sump or Tank	Sump (Cellar)	Building 3124, TTF	Jackass Flats
26-05-02	Leachfield	Leachfield	Building 2201	Skull Mountain
26-05-06	Leachfield	Leachfield	Building 2105	Skull Mountain
26-05-07	Leachfield	Leachfield	MAD 401	Skull Mountain
26-19-01	Contaminated Waste Dump	Waste Disposal Site	MAD 401	Skull Mountain
26-34-01	Contaminated Waste Bunker	Magazine/Bunker	Pluto Facility	Skull Mountain
27-05-01	Leachfield	Leachfield	Building 5176	Cane Spring
27-05-03	Leachfield	Leachfield	Unknown	Cane Spring
27-26-01	Lead Sheets, Lead Bricks	Lead	Able Compound	
30-35-01	Burn Pit	Burn Cage/Pit	Unknown	Buckboard Mesa
RG-23-001-RGC0	Waste Trenches	Waste Dump	Cactus Spring Ranch	

Appendix V

Public Involvement Plan

Revision No.: 8

November 2013

Federal Facility Agreement
and Consent Order
(FFACO)

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Attachment 2: Environmental Management Information Request Form

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List of Acronyms and Abbreviations

The federal government commonly uses acronyms in its publications and operations. Acronyms are words formed from the first letter of each major part of a compound term. For example, the U.S. Department of Energy is typically shortened to DOE. Acronyms are an effective means of communication, but only when readers are familiar with the representative terms. The following acronyms are used in this document:

CADD	Corrective Action Decision Document
CAP	Corrective Action Plan
CAS	Corrective Action Site
CAU	Corrective Action Unit
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CNTA	Central Nevada Test Area
DoD	U.S. Department of Defense
DOE	U.S. Department of Energy
DTRA	Defense Threat Reduction Agency
EA	Environmental Assessment
EIS	Environmental Impact Statement
EM	Environmental Management
FFACO	*Federal Facility Agreement and Consent Order*
LM	Legacy Management

List of Acronyms and Abbreviations *(continued)*

NAD	North American Datum
NDEP	Nevada Division of Environmental Protection
NEPA	*National Environmental Policy Act*
NNSS	Nevada National Security Site
NNSA/NFO	U.S. Department of Energy, National Nuclear Security Administration Nevada Field Office
NSSAB	Nevada Site Specific Advisory Board
RCRA	*Resource Conservation and Recovery Act*
SAFER	Streamlined Approach for Environmental Restoration
TTR	Tonopah Test Range
UGTA	Underground Test Area
UTM	Universal Transverse Mercator

Preface

The Public Involvement Plan serves two purposes: It provides a broad public involvement strategy, and it fulfills requirements contained in the *Federal Facility Agreement and Consent Order* (FFACO) relating to public awareness and participation. Under the FFACO (1996, as amended), agreed to by the State of Nevada; U.S. Department of Energy , Environmental Management (DOE/EM); U.S. Department of Defense (DoD); and DOE, Legacy Management (DOE/LM), sites and facilities potentially contaminated by past DOE and DoD activities must be effectively investigated and corrective actions established to protect public health, safety, and the environment. The plan, which is incorporated into the FFACO as Appendix V, is a key resource for gaining information on public participation options that relate to DOE and DoD environmental restoration and waste management activities.

1.0 FFACO Overview

The *Federal Facility Agreement and Consent Order* (FFACO) is a legally binding document that was agreed to by the State of Nevada; U.S. Department of Energy (DOE), Environmental Management (DOE/EM); U.S. Department of Defense (DoD); and DOE, Legacy Management (DOE/LM). The agreement outlines a process to ensure that the DOE and/or DoD, under the regulatory authority and oversight of the Nevada Division of Environmental Protection (NDEP), thoroughly investigate and take corrective actions concerning the release of hazardous pollutants at certain federal facilities owned or operated by the DOE and/or DoD.

Signed in 1996, the FFACO:

- Formalizes relationships among the State of Nevada, DOE, and DoD.
- Identifies sites of potential historical contamination and prioritizes them for cleanup.
- Defines the regulations the State of Nevada will use to direct and enforce corrective action activities.
- Establishes a corrective action strategy for cleanup activities.
- Outlines public involvement opportunities.

The FFACO is regulated for the State of Nevada by NDEP. The requirements of the FFACO are managed for the DOE by DOE/EM and DOE/LM, and for the DoD by the Defense Threat Reduction Agency (DTRA). Descriptions of public involvement opportunities for each organization's environmental restoration and FFACO activities are provided in the following sections.

2.0 U.S. Department of Energy Environmental Management

2.1 Environmental Management Overview

In 1989, the DOE created the Office of Environmental Restoration and Waste Management, now called the Office of Environmental Management. The EM Program was instituted at DOE field offices around the country to address the environmental liabilities of 50 years of nuclear weapons production in the United States. The EM Program at the DOE, National Nuclear Security Administration Nevada Field Office (NNSA/NFO) is part of that effort. It is EM's responsibility to determine the risk and future cleanup costs associated with environmental contamination, hazardous and radioactive materials and wastes, and contaminated buildings and facilities that are the result of historical testing and research activities.

Most NNSA/NFO EM activities are carried out at the Nevada National Security Site (NNSS) and at the Tonopah Test Range (TTR), which is part of the Nevada Test and Training Range. Located in Nye County, the NNSS (formerly known as the Nevada Test Site [NTS]) is a unique national resource (Figure 2-1). The approximately 1,360-square-mile site is located about 65 miles northwest of Las Vegas, Nevada. The NNSS is larger than the state of Rhode Island, making it one of the largest restricted access areas in the United States. This remote, arid site is predominantly surrounded by tightly controlled federal lands and facilities. The Nevada Test and Training Range provides a buffer zone on the east, north, and most of the west border of the NNSS, and the Bureau of Land Management land provides a buffer zone on the south and southwest border (see Attachment 1 for an overview of the NNSS).

The NNSA/NFO EM Program elements under the purview of the FFACO are Environmental Restoration and Waste Management. These activities have separate yet interrelated roles and responsibilities, as detailed in Section 2.1.1 and 2.1.2 of this plan. Under the NNSA/NFO EM Program, the activities operate with the common goals of soliciting and incorporating public comments into the decision-making process, protecting human health and safety, emphasizing environmental responsibility for NNSA/NFO activities, and complying with all applicable laws and regulations affecting program activities.

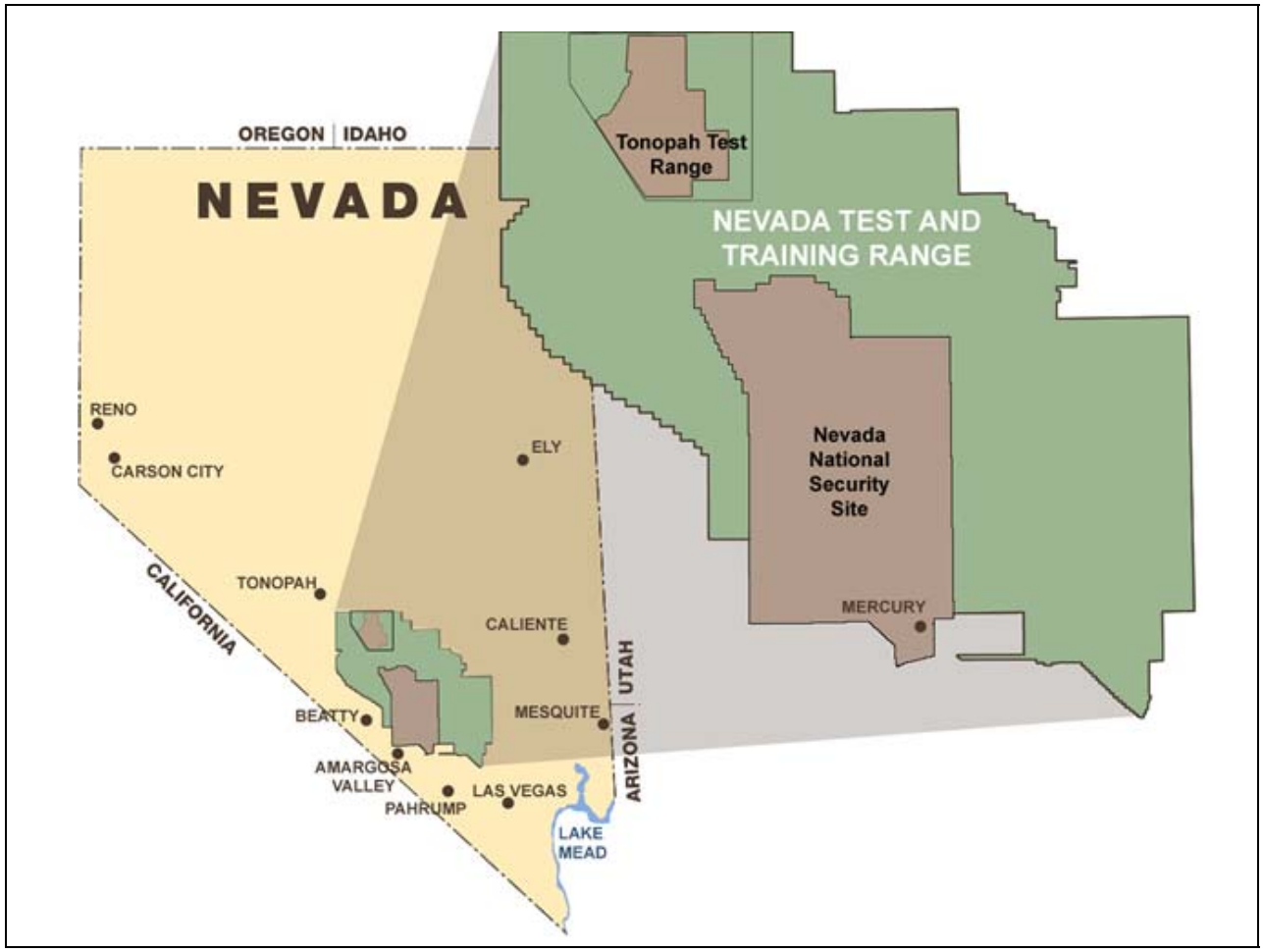

Figure 2-1
NNSS and Surrounding Areas

The laws, regulations, and NNSA/NFO and State of Nevada agreements with specific requirements for public interactions include the following:

- *Resource Conservation and Recovery Act* (RCRA)
- *Comprehensive Environmental Response, Compensation, and Liability Act* (CERCLA)
- *National Environmental Policy Act* (NEPA)
- *Federal Facility Agreement and Consent Order* (FFACO)

A more detailed description of environmental regulations is provided in Section 2.3.

2.1.1 Environmental Restoration

The NNSA/NFO EM Environmental Restoration activity addresses NNSA/NFO facilities and locations contaminated by historical nuclear research, development, and testing activities. These activities included nuclear weapons testing and related support operations, nuclear rocket experiments, and non-nuclear experiments. Contaminants include radioactive materials, unexploded ordnance, gasoline, oils, solvents, and heavy metals such as lead.

Environmental Restoration objectives are to identify the nature and extent of the contamination, and to assess the potential risk the contamination poses to the public and the environment. More than 3,000 potential Environmental Restoration sites have been identified to date, ranging from locations where car batteries have been discarded to craters formed by underground nuclear tests. Major environmental restoration activities include the following:

- ***Groundwater studies*** characterize the effects of historical underground nuclear detonations at the NNSS. Underground Test Area (UGTA) well data are used to generate computer models, which are sophisticated imaging tools that forecast the location and future movement of contaminants in complex geological settings. Ultimately, these models will help establish contaminant boundaries and a groundwater monitoring network (Figure 2-2).

- ***Soils remediation studies*** characterize contaminated surface and shallow subsurface soils on the NNSS and NTTR, including the TTR. Depending on the results of the characterization and planned land use scenarios, an appropriate remediation activity is then conducted.

- ***Industrial Sites studies*** characterize and remediate historical nuclear testing support sites, including disposal wells, inactive tanks, contaminated waste sites, inactive ponds, muck piles, spill sites, drains and sumps, and ordnance sites (Figures 2-3 and 2-4). Industrial Sites activities also include the decontamination and decommissioning of NNSS facilities that are no longer used, will not be used in the future, and are known or suspected to be contaminated. After contamination levels have been identified and contaminants stabilized, contained, or removed, the facilities are sealed, dismantled, or converted for non-nuclear uses. Industrial Sites are located on the NNSS and TTR

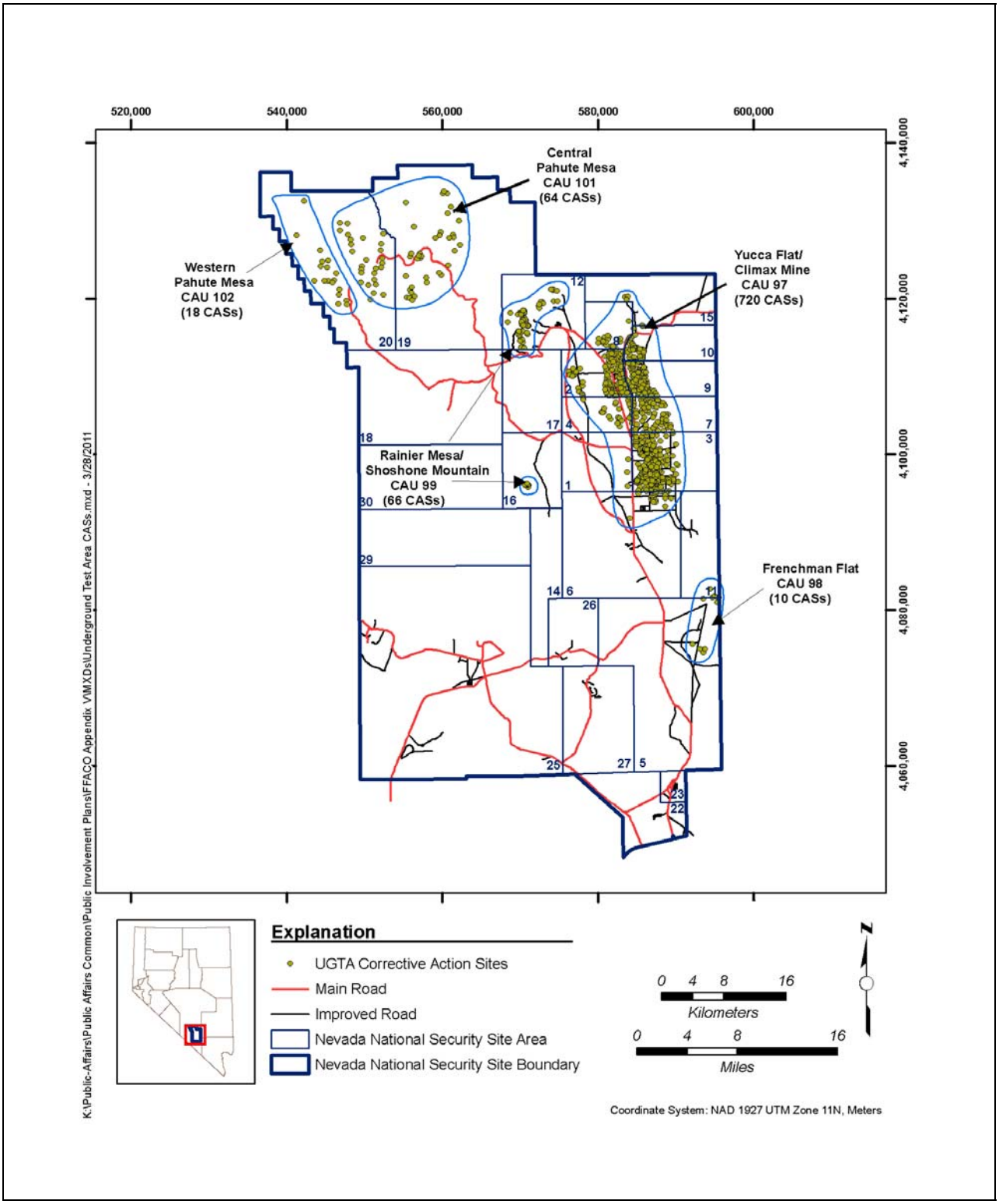

Figure 2-2
UGTA Corrective Action Sites and Corrective Action Unit Boundaries

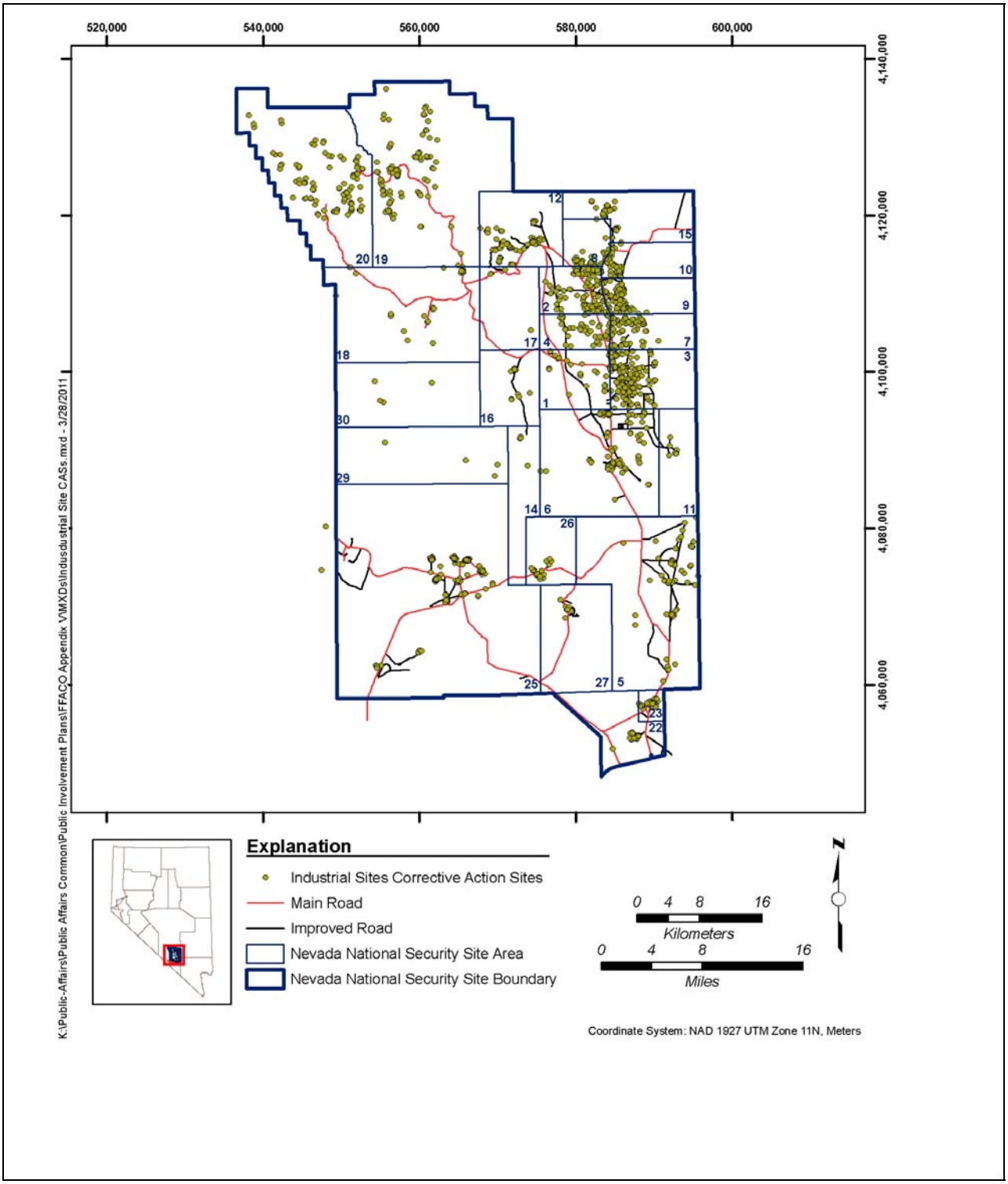

Figure 2-3
Industrial Sites Corrective Action Sites at the NNSS

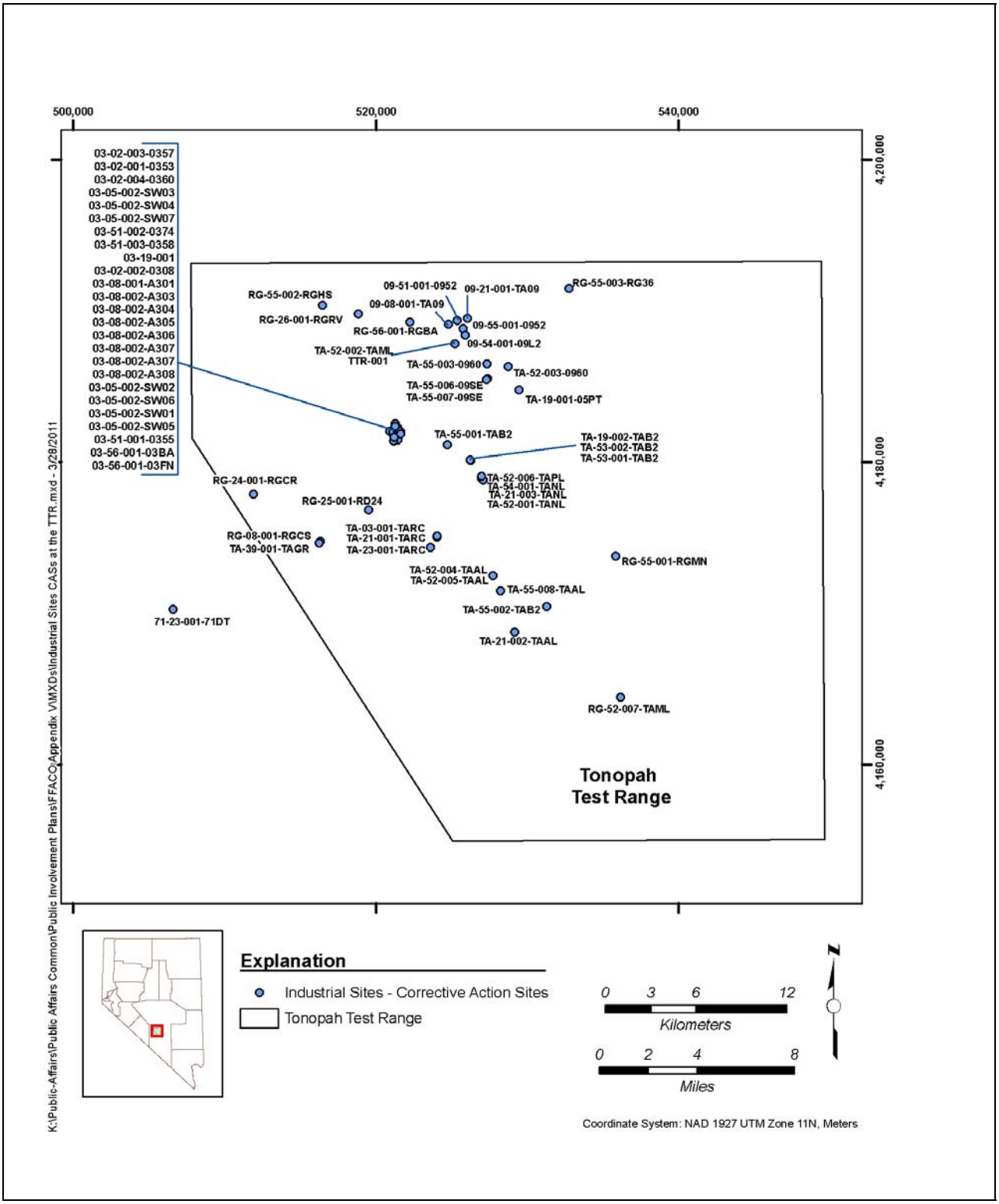

Figure 2-4
Industrial Sites Corrective Action Sites at the TTR

2.1.2 Waste Management

The Waste Management activity is responsible for the management and disposal of low-level and mixed low-level radioactive waste from the NNSS and other approved DOE and DoD facilities. The Waste Management activity also stores mixed low-level radioactive waste before disposal. The objective is to protect the environment and the public's health while minimizing, treating, storing, and disposing waste generated at DOE sites.

The above-mentioned waste types are currently managed at the Area 5 Radioactive Waste Management Site located on the NNSS (Figure 2-5). Excavated, engineered cells are currently used for the disposal of low-level and mixed low-level radioactive waste. Onsite hazardous waste is accumulated at the NNSS and shipped off site to a RCRA-permitted treatment, storage, and disposal facility.

Related waste management activities include the following:

- ***Radioactive Waste Acceptance Program.*** This program ensures that approved generators sending low-level and mixed low-level radioactive waste for disposal at the NNSS characterize, manage, and transport radioactive waste in compliance with rigorous NNSS Waste Acceptance Criteria.

- ***Performance Assessment.*** Computer models are developed to ensure the disposal facility maintains its integrity for the protection of the surrounding environment. These models provide conservative forecasts on potential short-term and long-term risks associated with waste disposal. The NNSS waste management sites are closely monitored to ensure wastes are properly contained within the disposal cells and contamination is not released beyond disposal site boundaries.

- ***Emergency Response.*** An NNSA/NFO grant funds emergency preparedness activities and resources in counties near the NNSS. This grant is funded by an additional fee charged to generators, which is based upon the volume of waste disposed. To date, over $11 million has been distributed to Clark, Elko, Esmeralda, Lincoln, Nye, and White Pine counties to enhance emergency response capabilities.

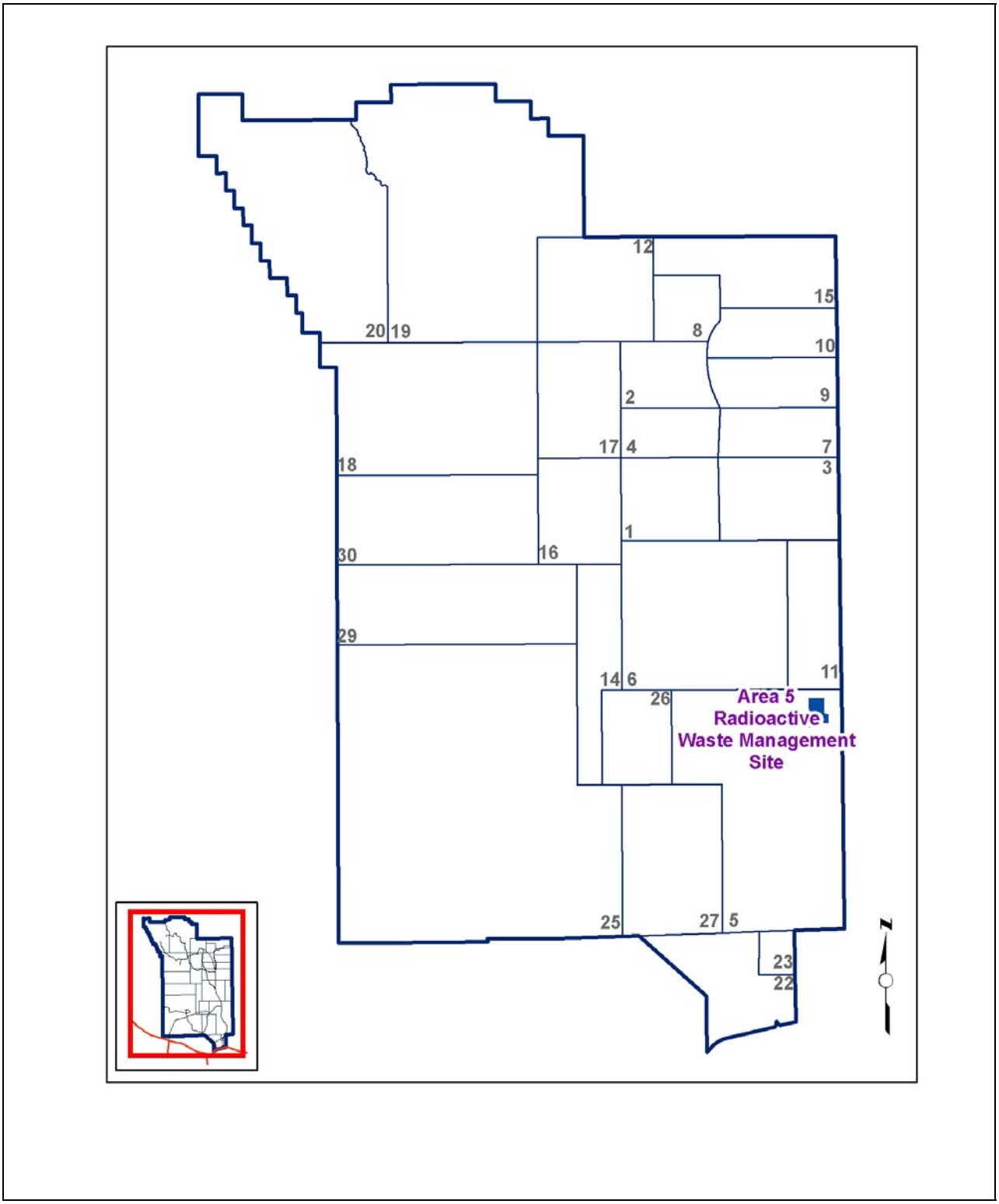

Figure 2-5
Area 5 Radioactive Waste Management Site

- ***Transportation.*** The Waste Management activity is responsible for the safe, efficient, and cost-effective packaging and transportation of materials, such as ***radioactive and hazardous*** materials and wastes, at the NNSS. Other responsibilities associated with transportation include preparing and analyzing transportation data in support of local transportation and stakeholder outreach efforts. The NNSA/NFO is not responsible for the transportation of waste to the NNSS from offsite generators. However, NNSS Waste Acceptance Criteria require low-level and mixed low-level radioactive waste generators and their contractors to transport waste shipments to the NNSS in accordance with applicable DOE, U.S. Department of Transportation, U.S. Environmental Protection Agency, state, and local hazardous waste regulations and requirements. The NNSA/NFO also encourages approved generators and their contracted carriers to select routes that minimize radioactive risk, enhance safety, and address public concerns. Other national decisions outside the scope of NNSA/NFO are not covered by this plan.

Specific waste types include the following:

- ***Low-level radioactive waste*** is the most common type of radioactive waste disposed at the NNSS, and typically consists of soil, rags, papers, equipment, solidified sludge, concrete, building materials, and discarded protective clothing contaminated with low levels of radiation. Low-level radioactive waste is currently disposed at the Area 5 Radioactive Waste Management Site located within the boundaries of the NNSS (Figure 2-5).

- ***Mixed low-level radioactive waste*** contains both radioactive and hazardous components. Currently, NNSA/NFO EM operates a Mixed Waste Disposal Unit at the Area 5 Radioactive Waste Management Site (Figure 2-5). The disposal unit functions under a RCRA permit regulated by NDEP.

- ***Hazardous waste*** consists of toxic, reactive, or ignitable substances. Hazardous waste is not radioactive and includes materials such as waste chemicals, fuels, and paints. Hazardous waste stored at the NNSS is sent off site to licensed, commercial facilities for recycling, incineration, or disposal. If the waste contains explosive materials, it is treated on site.

- ***Sanitary waste*** contains no hazardous or radioactive components. The NNSS handles its own solid and liquid wastes using landfills and water treatment facilities similar to those found in metropolitan areas.

2.2 Public Involvement Strategy

2.2.1 Strategic Overview

Public involvement has taken many forms since testing began at the NNSS. Beginning with the publicity surrounding the atmospheric tests in the 1950s, the public has expressed an ongoing interest in activities at the NNSS. At a national level, the Openness Policy, enacted by former U.S. Energy Secretary Hazel O'Leary in December 1993, paved the way for the declassification and availability of information and materials. The policy inspired further changes at the local levels. In 1994, the NNSA/NFO conducted formal community interviews to establish a dialogue with the public. The interviews helped identify participants' key concerns, attitudes, knowledge, and understanding of the EM Program at the NNSA/NFO. This information was candid and helpful, setting in motion a number of programs that would appeal to diverse audiences with different informational needs and interests. The creation of the Nevada Site Specific Advisory Board (NSSAB) (formerly known as the Community Advisory Board) and regular NSSAB meetings provided additional opportunities for public input.

2.2.2 Participation Levels

People have demonstrated varying levels of interest in NNSA/NFO activities. Some individuals have specific interests, and attend meetings or request materials only when the related topics address those interests. Others are satisfied to receive information through media coverage and NNSA/NFO news articles. Still, there are others who take a more active approach by joining an outreach effort and/or volunteering to serve on the NSSAB or on one of the board's committees.

This public interest and involvement has been categorized at four basic levels: aware, informed, involved, and highly involved (Figure 2-6). These levels are defined as follows:

- ***Aware.*** Television, print media, and/or the internet are usually the first places people turn to get current, issue-oriented information. This helps increase awareness of events and activities taking place at the NNSS. To facilitate this flow of information, NNSA/NFO personnel prepare news releases, schedule news conferences, conduct media interviews, use social media, and place advertisements in local newspapers.

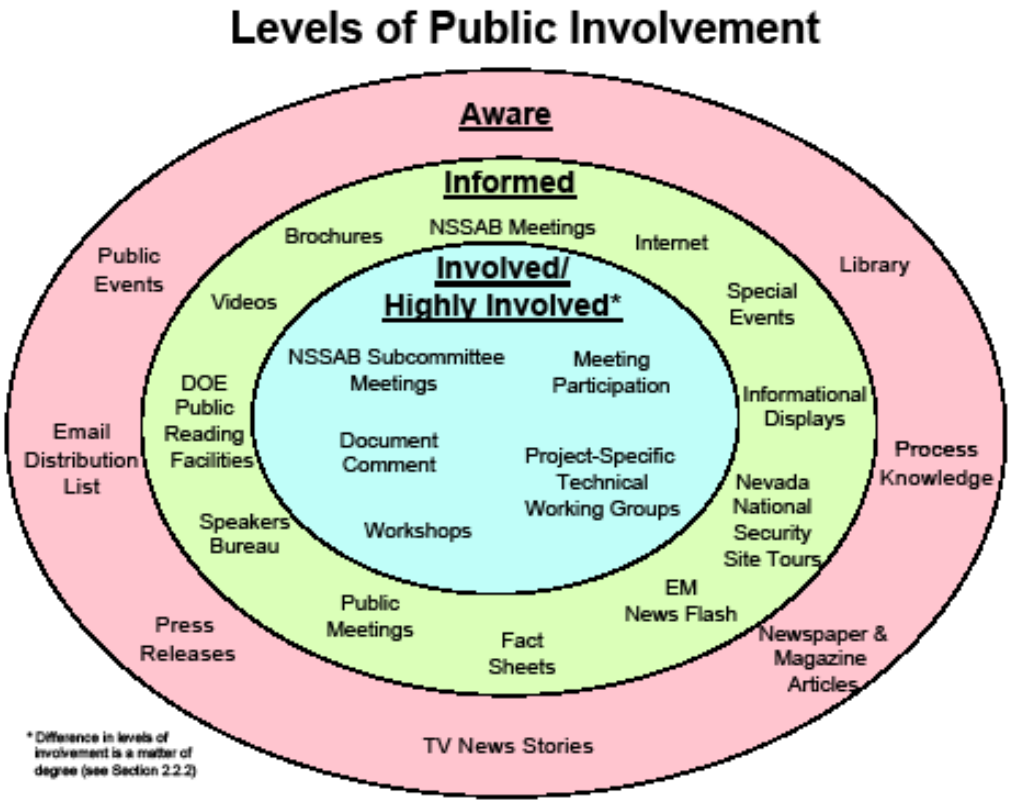

Figure 2-6
Levels of Public Involvement

- ***Informed.*** Those individuals who actively seek out information on a particular topic, subject, or program fall into the category of wanting to become informed. Information can be attained by attending a public meeting; requesting to be added to the EM email distribution list to receive notices of upcoming meetings or events, and the latest EM News Flash articles; reading topical fact sheets, publications, and brochures; browsing NNSA/NFO EM websites; requesting displays for special events; touring the NNSS; and requesting guest speakers for meetings, conferences, and educational functions.

- ***Involved.*** When attending meetings or reviewing written materials, a person may be inspired to dig deeper or find answers to questions; he/she has entered the involvement phase of public participation. The search for more specific answers might result in people voicing their opinions at public meetings, participating in workshops, or serving on committees such as those offered by the NSSAB. Involvement requires a personal commitment and the willingness to devote free time to participate in meetings and read background materials.

- ***Highly Involved.*** When a stakeholder or organization invests the time and effort to attend public meetings and review the result of research projects in order to contribute to the decision-making process, this person or group is highly involved. This level of involvement typically requires researching, reviewing, and formally commenting on public documents; requesting more information or a briefing from key managers; and participating in public meetings to stay current with an activity and its potential impact to the environment or public health and safety. People who are highly involved become conversant with the topic, time line, and "language" of the activity, and are likely to interact frequently with NNSA/NFO decision makers. The main avenue for interaction at this level is through membership on the NSSAB.

2.2.3 Opportunities To Become Aware and Informed

Those seeking general information regarding NNSA/NFO EM can use a variety of resources. Some public awareness opportunities are available on an ongoing basis, while others are developed in response to a specific activity or public demand. The activities are outlined below:

- Request to be added to the **NNSA/NFO Environmental Management Distribution List**. The NNSA/NFO EM Program maintains a comprehensive email list, and regularly disseminates meeting notices and information on EM activities. Names may be added or deleted to the list by contacting the NNSA/NFO EM Public Involvement Office at envmgt@nnsa.doe.gov or by calling (702) 295-3521.

- Browse local and national EM **websites** provided by the DOE. Visit the local NNSA/NFO site at http://www.nv.energy.gov/emprograms or the national EM site at http://www.em.doe.gov. The NNSA/NFO also maintains Facebook, Twitter, and Flickr pages at www.facebook.com/nnsanevadasiteoffice, www.twitter.com/nnsanevadasiteoffice, and www.flickr.com/photos/nnsanevadasiteoffice, respectively.

- Read **fact sheets and other materials** that provide information about specific activities and overviews of general NNSA/NFO EM activities. Copies of these products are available online at http://www.nv.energy.gov/library/.aspx, at the Nuclear Testing Archive Public Reading Facility, at select Nevada public libraries, or by contacting the NNSA/NFO EM Public Involvement at envmgt@nnsa.doe.gov or (702) 295-3521.

- Read periodic ***EM News Flash*** articles, which relay NNSA/NFO EM activities, programs, personnel changes, NSSAB recommendations, and other related information. The EM News Flash is available on the NNSA/NFO website at http://www.nv.energy.gov/outreach/news. A notice of new publications is distributed to those on the NNSA/NFO EM mailing list. (See Attachment 2 for an EM information request form.)

- Read news releases that describe achievements, events, workshops, meetings, personnel changes, and other items of interest.

- Request a speaker from the **NNSA/NFO Speakers Bureau**. Community, academic, civic, and professional groups are encouraged to engage a speaker from the NNSA/NFO staff and/or contractors to learn more about any of many environmental topics. To request a speaker, contact NNSA/NFO EM Public Involvement at envmgt@nnsa.doe.gov or (702) 295-3521.

- Attend **public outreach events** that feature NNSA/NFO EM exhibits and displays. The EM displays can also be requested for use at schools, libraries, conferences, and other special events. To request a speaker, contact NNSA/NFO EM Public Involvement at envmgt@nnsa.doe.gov or (702) 295-3521.

- Take part in an **NNSS tour**. Monthly public tours of the NNSS provide historical background and information about activities at the NNSS. Additional information about the tour, registration, and schedules can be found by visiting the NNSA/NFO website at http://www.nv.energy.gov/outreach/tours or by calling (702) 295-0944.

2.2.4 Opportunities To Become Involved

The following opportunities are available for those seeking to become involved in specific projects or activities:

- Visit and use the **Public Reading Facilities**, which contain complete information on EM Program activities. Reading facility locations are provided in Section 4.3.

- Attend **public meetings** to learn more about current and potential activities at the NNSS. Public meetings take place on an as-needed basis and typically focus on specific topics such as new permit applications or changes to the existing EM Program.

- Attend **NSSAB meetings** that highlight specific activities and subjects. Such meetings may also provide interested citizens with updates of ongoing issues, such as budget activities. Visit http://www.nv.energy.gov/nssab for meeting times and dates.

- Provide **public comment and review** of documents such as NEPA assessments and plans required by the FFACO. A list of FFACO Public Notices, and information on how to review documents and submit comments is available on the NNSA/NFO website at http://www.nv.energy.gov/outreach/publicnotices.

- Request one-on-one or small **informal meetings and briefings** by EM to receive timely and ongoing information about such topics as the budget process, cleanup activities, or waste shipments to the NNSS by contacting NNSA/NFO EM Public Involvement at envmgt@nnsa.doe.gov or (702) 295-3521.

- Become involved in **educational outreach programs** in which NNSA/NFO participates, such as Operation Clean Desert, by contacting NNSA/NFO EM Public Involvement at envmgt@nnsa.doe.govor (702) 295-3521.

2.2.5 Opportunities To Become Highly Involved

The NNSA/NFO EM Program provides various opportunities for the public to become involved in the EM decision-making process and often seeks input from the public, where appropriate and feasible, to incorporate feedback. Such opportunities arise through participation in workshops, NNSA/NFO EM stakeholder groups (such as the NSSAB) and the development of topic-specific stakeholder plans. Whenever possible, NNSA/NFO EM offers feedback to the public as to the manner in which its input has been used.

- ***Nevada Site Specific Advisory Board.*** In 1994, the Community Advisory Board for Nevada National Security Site Programs was officially approved by the U.S. Secretary of Energy. Now known as the NSSAB, the board operates under a national federal charter approved by the Office of Management and Budget, and the General Services Administration. As such, it falls under provisions of the *Federal Advisory Committee Act*.

  The NSSAB, which is composed of 10 to 20 individuals, was established to enhance public involvement and input-related to NNSA/NFO EM activities. Membership is open to all Nevada residents. All meetings are open to the public, and the public is strongly encouraged to attend. Liaisons to the NSSAB include representatives from the DOE, State of Nevada, Nye County, Clark County, and the U.S. National Park Service. The NSSAB provides a convenient and accessible way for individuals or organizations to explore public participation opportunities at all involvement levels. Those wishing to become aware or informed may attend without actively participating in discussions or question and answer sessions. The NSSAB is electronically provided a monthly status update on EM activities, and members are encouraged to ask questions/discuss the items listed. Copies of the monthly reports can be found at http://www.nv.energy.gov/nssab/MonthlyReports.

  Those with a keen interest in specific activities or projects may take a more active role in meeting participation. To submit an application for membership on the NSSAB, please contact the NSSAB office at (702) 657-9088 or visit http://nv.energy.gov/nssab.

- ***Public Open Houses*** provide a forum for information gathering and dialogue with key decision makers and other groups and organizations. Open Houses that address specific issues, such as groundwater, provide mechanisms for the public to offer input regarding general programmatic decisions. Notification of such opportunities is sent to individuals who are included on the NNSA/NFO EM mailing list.

- ***Stakeholder Involvement Plans*** are produced when specific topics are identified and have been determined to have a greater public interest. These plans contain a description of the activity, key dates for project development, and specific opportunities for stakeholders to become highly involved in the issue.

2.3 Regulatory Drivers and Agreements

An essential part of the public involvement strategy is to inform the public about laws, regulations, and agreements affecting environmental management. Whether entered into voluntarily or required by law, agreements provide the basis for much of the work conducted by the NNSA/NFO.

2.3.1 Federal Facility Agreement and Consent Order

The FFACO (1996, as amended) is the dominant regulatory driver for NNSA/NFO environmental restoration activities in Nevada. It sets the framework to prioritize specific restoration activities based on risk, agency regulations, and public input. A list of corrective action sites with activities currently in progress can be found in Appendix III of the FFACO. The FFACO also establishes a technical strategy for cleanup activities, maximizes the opportunity to complete multiple corrective actions, and provides for public involvement activities.

Under the FFACO, the NNSA/NFO, DoD, and DOE/LM propose priorities and discuss them with State of Nevada representatives who make recommendations. After discussion, the State, NNSA/NFO, DoD, and DOE/LM develop a final prioritization of corrective action units for investigation and remedial action. Throughout the corrective action process, documents are written to detail activities needed to ensure the completion of the corrective action.

The NSSAB is the main conduit for those who are highly involved and want to participate in FFACO-related activities. Each fiscal year, the NSSAB and DOE jointly establish the board's work plan for the year. Items covered in the work plan typically are associated with FFACO activities and milestones. Tasks associated with the yearly work plan are discussed at each board meeting. To view the current year's work plan, visit http://www.nv.energy.gov/nssab/Workplan.

The public can learn about the availability of FFACO documents by visiting Public Reading Facilities (see Section 4.3 for locations). A brief description of each document follows:

- ***Streamlined Approach for Environmental Restoration (SAFER) Plan*** provides a process for initiating and completing corrective actions at units where enough information exists to select the appropriate remedy before completing an investigation. The plan will incorporate the essential elements of the investigation plan, the decision document, and the action plan (described below).

- ***Corrective Action Investigation Plan*** provides or references all specific information for planning investigation activities associated with corrective action units or sites. This document must include or reference the management, technical, quality assurance, health and safety, public involvement, field sampling, and waste management information needed to conduct the investigation.

- ***Corrective Action Unit Work Plan*** is an optional planning document that provides information for a corrective action unit or collection of units where significant commonality exists. This plan may be developed to eliminate redundant corrective action unit documentation and may contain management, technical, quality assurance, health and safety, public involvement, field sampling, and waste management information. Common information will be referenced in appropriate Corrective Action Investigation Plans.

- ***Corrective Action Decision Document (CADD)*** provides a summary of the corrective action investigation; and describes the selected remedy and the rationale for its selection, documenting remedial alternatives ranging from no action to clean closure.

- ***Corrective Action Plan (CAP)*** is prepared when the CADD requires a corrective action. The CAP outlines the method for implementing the selected corrective action alternative and explains how the action will be completed.

- ***Corrective Action Decision Document/Corrective Action Plan (CADD/CAP)*** combines both the results of the corrective action investigation (normally presented in the CADD) and the remediation plan (normally presented in the CAP). The document is developed as a time-saving method when the compliance boundary is well defined, and the remediation alternatives are limited.

- ***Corrective Action Decision Document/Closure Report (CADD/CR)*** is developed when results from the corrective action investigation indicate that contaminant concentrations are below the level of regulatory concern. The document provides the rationale for no further corrective action, and may recommend closure with or without use restrictions or long-term monitoring.

- ***Closure Report (CR)*** verifies that the completed corrective action was conducted in accordance with the approved action plan and provides (to the State) all necessary support data to confirm the appropriate action took place.

- ***Notice of Completion*** is a State-issued document (usually in the form of a letter) signifying the completion of the corrective action in accordance with approved plans (not available at the Public Reading Facilities).

If DOE requests closure in place as the final remediation for a corrective action unit, it shall be publicly noticed and available for comment on the NNSA/NFO website at http://www.nv.energy.gov/outreach/publicnotices.

2.3.2 Agreement in Principle/Joint Low-Level Waste Oversight Agreement

The NNSA/NFO and the State of Nevada entered into an Agreement in Principle that is intended to assure Nevada residents that NNSA/NFO protects the public health and safety as well as the environment through existing programs and commitments. State of Nevada officials validate this effort through a program of independent monitoring and oversight of NNSA/NFO daily operational activities. An appendix to the Agreement in Principle is the *DOE/NV-State of Nevada Joint Low-Level Waste Oversight Agreement*, a cooperative oversight arrangement between the NNSA/NFO and the State of Nevada that allows the State an increased role in monitoring the management of low-level and mixed low-level radioactive wastes generated and disposed at the NNSS. By entering into the agreement, NNSA/NFO and the State agree to share information concerning waste types and quantities in addition to any general information that allows the State to conduct detailed oversight of waste disposal operations.

2.2.3 Other Regulatory Drivers

Throughout EM processes, the NNSA/NFO is bound by various federal and state laws. Three of these laws (RCRA, CERCLA, and NEPA) are highlighted below:

- The ***Resource Conservation and Recovery Act*** (RCRA) of 1976 is a comprehensive program for regulating and managing hazardous wastes, nonhazardous solid wastes, and underground storage tanks; and for promoting the use of recycled and recovered materials. This act sets a federal policy that limits land disposal of wastes in favor of other disposal methods, and encourages solid waste management practices that promote environmentally sound disposal methods, maximizes the reuse of recoverable resources, and fosters resource conservation. Federal agencies are required to comply with all applicable federal, state, and local RCRA regulations. The NNSA/NFO obtained a RCRA permit to operate the Mixed Waste Disposal Unit at the Area 5 Radioactive Waste Management Site (Figure 2-5). The fully lined cell became operational in December 2010

and replaces the previous mixed low-level waste disposal cell, which closed on November 30, 2010.

- The ***Comprehensive Environmental Response, Compensation, and Liability Act*** (CERCLA), as amended by the Superfund Amendments and Reauthorization Act, provides for remediation of, and emergency response for, hazardous substances released into the environment and for remediation of hazardous waste sites that present a substantial danger to public health and welfare. Title III, or the *Emergency Planning and Community Right-to-Know Act* of 1986, was added to the *Superfund Amendments and Reauthorization Act* as a free-standing law to address "extremely hazardous substances," and reporting of Occupational Safety and Health Administration-defined "hazardous chemicals." The *Federal Compliance with Right-to-Know Laws and Pollution Prevention Requirements* enacted in 1993 require all federal agencies to comply with certain planning and notification provisions of the *Emergency Planning and Community Right-to-Know Act*. CERCLA is one of the legal authorities that the FFACO is bound by.

- The ***National Environmental Policy Act*** (NEPA) was passed in 1969 and requires federal agencies to fully consider and document all environmental consequences before beginning new programs or constructing new facilities. This applies to any activity that affects the government and is funded or approved by a federal agency. The depth of analysis and level of documentation under NEPA are dependent upon the potential for significant environmental impacts resulting from a proposed action, and may range up to an environmental impact statement (EIS). An EIS presents a very detailed consideration of a proposed action or program and its potential impacts. For an EIS, NEPA requires a significant amount of public involvement, including public input during the scoping process and public hearings associated with the draft EIS.

  Preparation of the *Environmental Impact Statement for the Nevada Test Site and Other Off-Site Locations in the State of Nevada* (NTS EIS), which examines alternatives for current and future missions at the NNSA/NFO sites in Nevada, was initiated in August 1994. Approval of the final NTS EIS occurred in the fall of 1996. The Record of Decision for the NTS EIS was issued on December 9, 1996, and describes in detail the decisions reached for operation of the NNSA/NFO sites and facilities in Nevada. A supplemental analysis of the NTS EIS was completed in July 2002 and found that current EM activities were consistent with the 1996 NTS EIS descriptions and analyses. In July 2009, the NNSA/NFO announced its intent to prepare a Site-Wide EIS for the NNSS and other facilities under its purview. Using the existing EIS as a baseline, the newer Site-Wide EIS will cover NNSA/NFO activities conducted for a period of 10 years once the newer Record of Decision is published.

  Generally, for proposed actions for which the severity of environmental impacts are unknown but thought to be insignificant, the agency may prepare an environmental assessment (EA), which is a less rigorous level of documentation than the EIS. The EA is a concise public document used to determine whether a proposed action would, in fact, have significant impacts. If the analyses in the EA demonstrate that potential impacts

would be insignificant, the agency may prepare a “Findings of No Significant Impact” and proceed to implement the activity . If the EA identifies potentially significant environmental impacts, the agency must then prepare an EIS before implementing an action. Public review requirements for an EA are generally less stringent than for an EIS, and no public hearings are necessary. Final EAs and “Findings of No Significant Impact” are made available to the public and placed in the Public Reading Facilities.

Proposed actions that fit within certain predefined classes of action and meet other rigorous requirements may be considered categorically excluded from further consideration under NEPA. The classes of action that may be considered for a categorical exclusion include those that have no extraordinary circumstances related to the proposal that may affect the significance of the environmental effects of the proposal; are not connected to other actions with potentially significant impacts; are not related to other proposed actions with cumulatively significant impacts; or are not precluded by other regulations. A categorical exclusion is defined as “a category of actions which do not individually or cumulatively have a significant effect on the human environment and which have been found to have no such effect in procedures adopted by a Federal agency in implementation of these regulations.” If a proposed action meets all of the requirements, it may be considered categorically excluded, and no further analyses or documentation would be required for purposes of NEPA.

Under NEPA, information must be made available to state and federal agencies, potentially affected American Indian tribes, and the public before decisions are made. The NEPA process depends on public involvement, which impacts decision making more directly as people take a more hands-on interest in environmental issues.

For more detailed information regarding laws and regulations, contact the librarian at the Nuclear Testing Archive Public Reading Facility at (702) 295-1628. The Public Reading Facilities are currently located at the Southern Nevada Public Reading Facility, c/o Nuclear Testing Archive, 755 E. Flamingo Road, Las Vegas, Nevada, 89119 (telephone [702] 295-1628); and at the Northern Nevada Public Reading Facility, Nevada State Library and Archives, 100 N. Stewart Street, Carson City, Nevada, 89701-4285 (telephone [775] 684-3326). Website information may also be obtained through the reading facilities.

3.0 U.S. Department of Energy Legacy Management

3.1 Legacy Management Overview

Activities of the DOE and its predecessor agencies, particularly during the Cold War, left a legacy of environmental impact at more than 100 sites throughout the country. The DOE has the responsibility to permanently and safely dispose of the radioactive waste and to protect human health and the environment.

The DOE created the Office of Legacy Management (LM) in December 2003 to effectively and efficiently manage the environmental and human legacy issues related to the U.S. Government's Cold War nuclear weapons program for current and future generations. The DOE/LM responsibilities include long-term surveillance and maintenance, records management, work force restructuring and benefits continuity, property management, land use planning, stakeholder relations, and community assistance. Sites may be transferred from DOE/EM in order for DOE/LM to perform these responsibilities.

3.2 Offsites

Nine nuclear test sites (collectively called Offsites) in five states were transferred from DOE/EM to DOE/LM in 2006 for long-term surveillance and maintenance (Figure 3-1). The two Offsites in the state of Nevada are the Central Nevada Test Area (CNTA) and the Shoal site (Figure 3-2). A formal Site Transition Plan was created to transition responsibility for the Offsites from EM to LM. The Site Transition Plan included all the information necessary to transfer the Offsites. The plan was then signed by the Assistant Secretary for EM and the LM Director.

The Central Nevada Test Area was developed as an alternative location to the NNSS for subsurface tests of high-yield nuclear explosive devices. The CNTA is located in the Hot Creek Valley of south-central Nevada, about 70 miles northeast of Tonopah. The site is at an elevation of 6,100 feet above sea level and consists of three parcels totaling 2,560 acres. The parcels are spaced about three miles apart from one another along a roughly north-south line. The CNTA is

Figure 3-1
Offsites Locations

Figure 3-2
Offsites Locations

on lands administered by the Bureau of Land Management and the Forest Service, and is managed by the DOE.

3.3 Public Involvement Strategy

The DOE continues its public involvement efforts as the focus of the cleanup mission turns to long-term operation, monitoring, and maintenance of the Offsites. The cleanup at DOE sites and the plans for long-term management of the sites have benefited and are expected to continue to benefit from public involvement dialogue among state and federal regulators, stakeholder organizations, elected officials, and members of the general public.

The following resources are available to those seeking information about LM:

- The LM website, at http://www.lm.doe.gov/, contains general information about the LM organization, policies, guidance, reports, and programs.

- The LM Program Update is a quarterly publication that reports news about LM's activities. It is available on the LM website at http://www.lm.doe.gov/Office_of_Business_Operations/Stakeholder_Relations/Program_Update_Newsletters.aspx. Individuals can also be added to the LM mailing list to receive the LM Program Update. To add a name to the LM Program Update mailing list, email LM@hq.doe.gov, or fax a request to (202) 586–1540.

- Specific information about the CNTA and Shoal sites is available at http://www.lm.doe.gov/land/sites/nv/central/central.htm and http://www.lm.doe.gov/land/sites/nv/shoal/shoal.htm. Information on these websites includes site records, fact sheets, and a link to the Geospatial Environmental Mapping System for each site.

- Fact sheets and information about the CNTA and Shoal sites are available by contacting Public Affairs at (970) 248-6363 or (970) 248-6000, or by sending an email request to jmiller@lm.doe.gov.

- To request LM documents, fill out the electronic document request form at http://www.lm.doe.gov/LMForms.aspx?ekfrm=1922.

4.0 Defense Threat Reduction Agency

4.1 DTRA Overview

The Defense Threat Reduction Agency (DTRA) is a DoD organization with a mission of safeguarding the United States and its allies from weapons of mass destruction (chemical, biological, radiological, nuclear, and high-yield explosives) by providing capabilities to reduce, eliminate, and counter the threat, and mitigate its effects. As a tenant on the NNSS, DTRA and its predecessor agencies (the Defense Nuclear Agency and the Defense Special Weapons Agency) conducted nuclear weapons-effects testing from 1962 to 1992. Approximately 45 tests were conducted in six different tunnels on the NNSS.

4.2 DTRA Environmental Restoration

The DTRA Environmental Restoration Program addresses contamination from the historical DTRA nuclear weapons effects testing at the NNSS. The contamination resulted from nuclear testing and related support operations. Contaminants include radioactive materials, unexploded ordnance, gasoline, oils, solvents, and heavy metals such as lead. Major environmental restoration activities include the following:

- ***Muckpiles*** were constructed at the portal of each tunnel. Muckpiles may contain
  - mining waste rock
  - construction debris
  - low-level radioactive waste (generated during reentry)
  - hazardous waste (primarily lead) or
  - hydrocarbons.
- ***Containment ponds***, at four of the tunnels, controlled tunnel effluent generated during mining, construction, and reentry.

4.3 Public Involvement Strategy

The following resources are available to those seeking information about DTRA Environmental Restoration activities:

- Read and listen to **news releases and public service announcements** that describe DTRA programs, current environmental restoration activities, and other items of interest.

- Take part in an **NNSS tour**. Monthly public tours of the NNSS provide historical background and information about activities at the NNSS. Additional information about the tour, registration, and schedules can be found by visiting the NNSA/NFO website at http://www.nv.energy.gov/outreach/tours.aspx or by calling (702) 295-0944.

- Visit and use the **Public Reading Facilities**. The facilities contain complete information on DTRA Environmental Restoration projects and activities. The reading facility locations are as follows:

  – Southern Nevada Public Reading Facility: Nuclear Testing Archive, 755 E. Flamingo Road, Las Vegas, Nevada

  – Northern Nevada Public Reading Facility: Nevada State Library and Archives, 100 N. Stewart Street, Carson City, Nevada

- Provide public comment and review of DoD/DTRA documents required by the FFACO. A list of FFACO Public Notices, and information on how to review documents and submit comments is available on the NNSA/NFO website at http://www.nv.doe.gov/emprograms/environment/restoration/ffaco.htm.

5.0 Conclusion

This Public Involvement Plan details the various mechanisms that interested individuals, organizations, and stakeholders can use to gain knowledge about FFACO activities conducted by the NNSA/NFO. Furthermore, the plan offers communication techniques in order to appeal to people with varying levels of interest. The overall goal of the plan is to reflect the FFACO parties' commitment to involve the public as activities are developed and decisions are made.

The plan represents a culmination of comments and suggestions that were offered by the public, and attempts to satisfy those that are most relevant. For the most part, the public is asking for clear, understandable summaries of technical data as well as general background information. Responding to this request, the plan not only offers clear, concise descriptions of activities, but also details public involvement opportunities and communication channels that can enhance the learning process for the layperson. As FFACO parties strive to accommodate the perspectives of both technical and non-technical audiences, further efforts are being made to include easy-to-read summaries in all documents. In keeping with public requests, the plan also makes available crucial background data, such as historical and regulatory information, to help the audience relate to the "big picture," or overall program or project objectives.

Public participation, which often provides FFACO parties with the insight needed to develop activities and prioritize work, is important at every level of the decision-making process. This plan describes a number of opportunities for the public to become part of that process. The FFACO parties update the plan as activities change and as the public identifies ways to make NNSA/NFO activities more effective. Please take the time to share your comments so the plan can continue to reflect your needs.

6.0 Contacts

For more information on any of these topics, please contact the following:

Kelly Snyder
Public Involvement Task Manager
Environmental Management
U.S. Department of Energy
National Nuclear Security Administration
Nevada Field Office
P.O. Box 98518
Las Vegas, NV 89193-8518
(702) 295-2836
kelly.snyder@nnsa.doe.gov

Public Affairs
U.S. Department of Energy Office of Legacy Management
2597 Legacy Way
Grand Junction, CO 81503
(970) 248-6363
jmiller@lm.doe.gov

Chief, Nevada Operations
Defense Threat Reduction Agency
Nevada Operations
P.O. Box 208
Mercury, NV 89023
(702) 295-7645

Attachment 1: Overview of the Nevada National Security Site

History of the Nevada National Security Site

For more than 60 years, the primary mission of the Nevada National Security Site (NNSS) was to conduct field testing using both nuclear and conventional explosives. The NNSS was established in 1950 when President Harry Truman authorized the designation of a continental atomic testing area. In addition to weapons tests, areas at the NNSS have been used for various secondary missions, including neutron and gamma-ray interaction studies; open-air nuclear reactor, nuclear engine, and nuclear furnace tests; hazardous materials spill response testing; and experiments conducted by the U.S. Department of Defense involving radioactive and nonradioactive materials. In the 1950s, atmospheric tests were carried out until the Limited Test Ban Treaty went into effect in 1963, ending testing activities in the atmosphere, oceans, and space. After July 1962, all nuclear tests in the United States were conducted underground, most of them at the NNSS. Following a presidential mandate, nuclear weapons testing was suspended in October 1992, with a stipulation that a readiness posture must be maintained.

To date, there have been 1,054 nuclear tests conducted by the United States, 928 of which were performed at the NNSS. These operations generated residual radioactive and hazardous waste that contaminated the surface and subsurface environment. The U.S. Department of Energy (DOE) established the Environmental Management Program to address the issue of remediating and disposing of accumulated waste and contamination.

The primary mission of the DOE, National Nuclear Security Administration Nevada Field Office (NNSA/NFO) has shifted from nuclear testing to stockpile stewardship. Activities at the NNSS also reflect NNSA/NFO's changing mission. Work conducted at the NNSS now focuses on subcritical and other weapons physics experiments, emergency management and test readiness activities, environmental restoration, low-level radioactive waste management, and work for national security organizations and experimental programs. In an effort to further diversify opportunities at the NNSS, NNSA/NFO developed partnerships with private industry; national laboratories; and other federal, state, and local entities to explore new technologies.

The Environment at the NNSS

The NNSS is located approximately 65 miles northwest of Las Vegas. Located on the southern edge of the Great Basin, the NNSS is home to a diverse and complex mosaic of plant and animal communities representative of both the Mojave and Great Basin Deserts and the transition zone between the deserts. Some 700 species of plants have been found across the NNSS. Although extensive surveys over most of the NNSS have been conducted, no plants have been identified as threatened or endangered.

Nearly 2,000 types of insects, birds, mammals, and reptiles inhabit the NNSS. Wild horses range over areas of the NNSS. One bald eagle and one peregrine falcon, listed as endangered by the State of Nevada, have been seen on the NNSS. The only animal species found on the NNSS that are listed as threatened by the State of Nevada are the spotted bat and the desert tortoise. The desert tortoise is also listed as threatened by the U.S. Fish and Wildlife Service. About 8 percent of the NNSS has been disturbed by testing and other support activities. The remaining 92 percent supports typical, regional plant and animal life.

The Nevada Test and Training Range provides a buffer zone on the east, north, and west borders of the NNSS, and the Bureau of Land Management oversees the land bordering the southern and southwestern boundaries of the NNSS. This unpopulated area covers some 5,470 square miles, making it one of the largest contiguous unpopulated land areas in the United States.

Attachment 2: Environmental Management Information Request Form

If you are not currently on the Environmental Management electronic mailing list and would like to receive the EM News Flash, please provide the following information:

Name:_____

Company Name:_____

Street/Box/Apt. No.: _____

City: _____ **State:** _____

Zip: _____

Email:_____

To: **Environmental Management Public Involvement**
envmgt@nnsa.doe.gov
U.S. Department of Energy,
National Nuclear Security Administration
Nevada Field Office
P.O. Box 98518
Las Vegas, Nevada 89193-8518

Appendix VI

Corrective Action Strategy

Revision No.: 5

November 2013

Federal Facility Agreement
and Consent Order
(FFACO)

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List of Acronyms and Abbreviations

3-D	Three-dimensional
CAA	Corrective action alternative
CADD	Corrective action decision document
CAI	Corrective action investigation
CAIP	Corrective action investigation plan
CAP	Corrective action plan
CAS	Corrective action site
CAU	Corrective action unit
CFR	*Code of Federal Regulations*
CNTA	Central Nevada Test Area
CR	Closure report
CSM	Conceptual site model
DoD	U.S. Department of Defense
DOE	U.S. Department of Energy
DOE/DP	U.S. Department of Energy/Defense Program
DOE/EM	U.S. Department of Energy/Environmental Management

List of Acronyms and Abbreviations *(continued)*

DOE/ER	U.S. Department of Energy/Environmental Restoration
DOE/LM	U.S. Department of Energy/Office of Legacy Management
DQO	Data quality objective
FFACO	*Federal Facility Agreement and Consent Order*
FY	Fiscal year
HSU	Hydrostratigraphic unit
m	Meter
NAC	Nevada Administrative Code
NAD	North American Datum
NDEP	Nevada Division of Environmental Protection
NEPA	*National Environmental Policy Act*
NNSA/NFO	National Nuclear Security Administration Nevada Field Office
NNSS	Nevada National Security Site
NSSAB	Nevada Site Specific Advisory Board
NRC	National Research Council
NTTR	Nevada Test and Training Range

List of Acronyms and Abbreviations *(continued)*

PCB	Polychlorinated biphenyl
PSA	Project Shoal Area
RCRA	*Resource Conservation and Recovery Act*
SAFER	Streamlined Approach for Environmental Restoration
SDWA	*Safe Drinking Water Act*
TTR	Tonopah Test Range
UGTA	Underground Test Area
UTM	Universal Transverse Mercator
VOIA	Value of information analysis

1.0 Introduction

Appendix VI to the Federal Facility Agreement and Consent Order (FFACO) describes the strategy that will be employed to plan, implement, and complete environmental corrective action activities at facilities where nuclear-related operations were conducted in Nevada. The nuclear tests and associated support activities were conducted at the Nevada National Security Site (NNSS) (formerly known as the Nevada Test Site [NTS]); parts of the Tonopah Test Range (TTR) and Nevada Test and Training Range (NTTR); and at the Project Shoal Area (PSA) and the Central Nevada Test Area (CNTA), located in northern and central Nevada, respectively. Agencies, herein referred to as parties, responsible for the activities described in this appendix are the U.S. Department of Energy (DOE), National Nuclear Security Administration Nevada Field Office (NNSA/NFO); the U.S. Department of Defense (DoD); and the DOE/Office of Legacy Management (LM). These parties will follow this strategy to accomplish corrective action investigations (CAIs) and corrective actions at the facilities specified in Appendix I (Description of Facilities) of this Agreement, as overseen by the Nevada Division of Environmental Protection (NDEP). The DoD's responsibilities are limited to those areas at the NNSS where DoD has conducted activities. The DOE/LM's responsibilities are limited to the Nevada Offsites, which consist of the CNTA and the PSA.

The corrective action strategy is based on four steps: (1) identifying corrective action sites (CASs), (2) grouping the CASs into corrective action units (CAUs), (3) prioritizing the CAUs for funding and work, and (4) implementing the CAIs and/or corrective actions, as applicable.

Corrective action sites are broadly organized into four categories (Figure 1-1) based on the source of contamination: (1) Industrial Sites, (2) Underground Test Area (UGTA) sites, (3) Soils sites, and (4) Offsites. The CASs located on the NNSS and TTR where activities were conducted that supported nuclear testing activities are grouped as Industrial Sites CAUs . The CASs associated with underground nuclear tests that have resulted or might result in local or regional impacts to groundwater resources are grouped as the UGTA CAUs. The CASs where tests resulted in extensive surface and/or shallow subsurface contamination are grouped as Soils CAUs. Additional

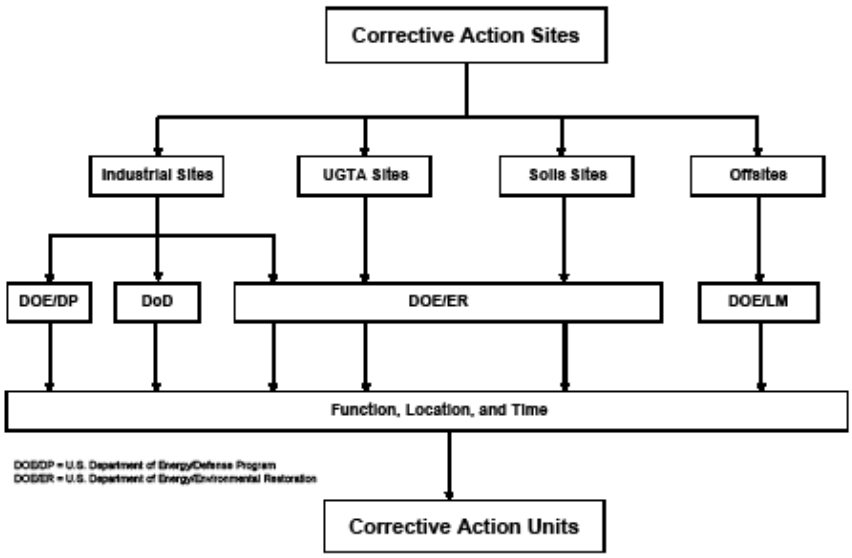

Figure 1-1
Assignment of CASs to CAUs

CASs associated with underground nuclear testing at PSA and CNTA are grouped as Offsites CAUs. All nuclear tests shall be addressed under the above categories (2), (3), or (4).

1.1 Identifying Corrective Action Sites

The first step in the strategy is to identify CASs potentially requiring CAIs and/or corrective actions and place them into Appendix II (Corrective Action Sites/Units) of the Agreement. As CASs are identified, a literature search may be completed, and each CAS will be verified on aerial photographs or in the field to confirm the condition and location of the CAS. A data repository has been created containing or referencing information currently available for each CAS.

+

1.2 Grouping Corrective Action Sites

Corrective action sites will be grouped into CAUs following the process presented in Figure 1-1 and the criteria described below. Appendix II (Corrective Action Sites/Units) may contain CASs that have not yet been grouped into CAUs, and it is possible that a CAU may contain only one CAS. Criteria for grouping CASs into CAUs include the following:

1. What is the potential source of contamination?
2. Which party is responsible for cleanup of the CAS?
3. What was the function of the CAS and, therefore, the nature of the contamination?
4. Do the CASs have geographic commonality, or are the CASs located in close enough proximity to be investigated as a CAU?
5. Can investigation or cleanup of grouped CASs be accomplished within a similar timeframe?

Appendix II (Corrective Action Sites/Units) of this Agreement will be reviewed periodically by NNSA/NFO, DoD, DOE/LM, and NDEP to determine whether CASs are appropriately organized into CAUs.

1.3 Prioritizing Corrective Action Units

Prioritization of CAUs will be proposed by NNSA/NFO, DoD, and DOE/LM, as appropriate. The proposed priorities and explicit justifications will be presented to NDEP for review; NDEP may agree with the basis for the prioritization and the criteria specified, or suggest alternatives. The CAUs will be reprioritized as applicable per the results of the NDEP review and discussions on issues and priorities held during scheduled annual meetings. During the annual meeting, NNSA/NFO, DoD, DOE/LM, and NDEP will review and reconsider established priorities, milestones, and associated due dates and deadlines for the current fiscal year (FY) +1.

As outlined in the Letter Agreement to Modify the FFACO dated March 17, 2010, the parties will also address the development of proposed CAU priorities for FY +2. The proposal will include milestones with associated due dates and deadlines. The proposed prioritization will then

be presented to the Nevada Site Specific Advisory Board (NSSAB) for input. The NNSA/NFO, DoD, DOE/LM, and NDEP will subsequently develop a final prioritization of CAUs scheduled for CAIs and corrective actions within 30 days of receipt of the final proposed NNSA/NFO, DoD, or DOE/LM milestones for all prioritized CAU activities that must be incorporated into the FY +2 Budget Request. This entire process is pursuant to paragraph XII.4 of this Agreement.

A listing of criteria (arranged alphabetically) that may be used to prioritize CAUs is presented in Table 1-1.

Table 1-1
Potential Criteria for Prioritizing CAUs

Criteria	Description
Assessment of risk	Does the risk to workers, and/or the general public, and/or to the ecosystem require a CAI, a corrective action, or no further action?
Available technology	Are the technologies available for corrective action effective and not cost prohibitive?
Cost	Can the CASs within the CAUs be addressed within known or expected budget constraints?
Future use	What are the possible future land or resource uses?
Geographic location	Is the CAU located in an area that requires more immediate action than others
Interdependency of action	Are planned or ongoing operations likely to have an effect on the priority of a CAI and/or corrective action?
Optimization of resources	Have all resources been analyzed and used to their fullest practical extent?
Priorities of the parties	What are the priorities of the parties for the CAUs?
Presence of cultural resources or sensitive species	Do CAUs contain CASs where cultural resources or sensitive species are known or expected to be encountered? Will these CAUs require additional time and cost for surveys and mitigation before or concurrently with the corrective action?

Table 1-1
Potential Criteria for Prioritizing CAUs

Criteria	Description
Regulatory requirements	Are some CAIs and/or corrective actions mandated by regulatory requirements to be accomplished first? Are there other regulatory requirements that must be met (e.g., must a *National Environmental Policy Act* [NEPA] document be completed, or a threatened and endangered species survey accomplished before a CAI and/or corrective action begins)?
Schedule	Are CAIs and/or corrective actions scheduled to allow efficient utilization of resources such as labor and equipment?
Stakeholders' concerns	Do stakeholders have additional criteria, concerns, or alternatives to propose?
Time required to complete action	How long will it take to complete the CAI and/or corrective action?
Waste management concerns	Are facilities and technologies available to effectively manage the waste expected to be generated by corrective actions?

1.3.1 Public Involvement

See Appendix V (Public Involvement Plan) of the FFACO.

1.3.2 Historical CASs and New Releases

The historical *Resource Conservation and Recovery Act* (RCRA) sites governed by Section V of DOE's RCRA permit number NEV HW0021 will be prioritized with the CAUs regulated by this Agreement. However, closure of these sites shall be in accordance with the appropriate requirements of Title 40 *Code of Federal Regulations* (CFR) 265, as adopted *by Nevada Administrative Code* (NAC) 444.8632 and 444.8634, inclusive.

Contamination caused by new spills or releases from operational activities will not be covered under this Agreement. Priorities established in Appendix III (Corrective Action Investigations/ Corrective Actions) may be reconsidered based upon the circumstances involving new releases.

1.4 Corrective Action Investigation and Corrective Action Documents

A series of documents will be prepared to plan and guide CAI and corrective action activities.

- **Corrective Action Investigation Plan (CAIP):** A document that provides or references all the specific information for planning investigation activities associated with CAUs. A CAIP may reference information in the optional CAU work plan or other applicable documents. If a CAU work plan is not developed, then the CAIP must include or reference all the management, technical, quality assurance, health and safety, public involvement, field sampling, and waste management information needed to conduct the investigations in compliance with established procedures and protocols.

- **Corrective Action Unit Work Plan:** An optional planning document that provides information for a CAU or a collection of CAUs where significant commonality exists. This plan may be developed to eliminate redundant CAU documentation and may contain management, technical, quality assurance, health and safety, public involvement, field sampling, and waste management information. This common information will be referenced in appropriate CAIPs.

- **Corrective Action Decision Document (CADD):** A document that provides the corrective action that is selected as the result of investigation activities and the rationale for its selection. The rationale consists of an analysis of the possible alternatives and may reflect a decision ranging from no further action to clean closure.

- **Corrective Action Plan (CAP):** A document that provides the plan for implementing the selected corrective action alternative (CAA). This plan shall contain a detailed description of the proposed actions that will be taken to achieve the degree of containment set forth in the NDEP-approved CADD.

- **Corrective Action Decision Document/Corrective Action Plan (CADD/CAP):** A document that combines the function of the CADD and CAP. The CADD/CAP will describe the corrective action and the plan for implementing the corrective action.

- **Corrective Action Decision Document/Closure Report (CADD/CR):** A document that is used when no further corrective actions are needed after the CAI is completed. This may include minor corrective actions as agreed to by NDEP. The document must conform to the approved FFACO Outline and provide rationale for no further corrective action, and may recommend closure with or without use restrictions or long-term monitoring. This document is submitted to fulfill a CADD milestone. However, if approval is granted, this document would also fulfill the CR milestone and the CAP milestone would no longer be required.

- **Streamlined Approach for Environmental Restoration (SAFER) Plan:** A document that provides a plan for initiating and completing corrective actions at CAUs where enough information exists (generally the nature and/or extent of contamination) to predict the appropriate corrective action before completing a CAI. The plan will incorporate the essential elements of the CAIP, the CADD, and the CAP to allow work to proceed directly from the CAI to the corrective action.

- **Closure Report (CR):** A document that states that the completed corrective action was conducted in accordance with the approved CAP and provides to NDEP all necessary support data to confirm that the appropriate corrective action took place.

- **Notice of completion:** An NDEP-issued document signifying the completion of the CAU corrective action and/or regulatory milestones in accordance with the approved plans.

1.5 Implementing CAIs and Corrective Actions

If a CAU is prioritized for a CAI or corrective action within the three-year planning window, that CAU and associated CASs will be transferred from Appendix II (Corrective Action Sites/Units) to Appendix III (Corrective Action Investigations/Corrective Actions). A preliminary characterization will be performed based on existing data. The data will be used to develop conceptual models to determine appropriate investigative and corrective action tasks, as well as to select a corrective action process.

Data quality objectives (DQOs) will be incorporated throughout the corrective action process. The DQO process is a series of planning steps designed to ensure that environmental data used in decision making are appropriate. The DQOs are qualitative and quantitative statements that help guide CAPs and decisions. These statements will help assure that data are of sufficient quality and quantity to support defensible decisions and, at the same time, reduce data collection costs by eliminating unnecessary, duplicative, or overly precise data. The DQOs will be developed by the parties with NDEP participation to assist in development of appropriate work scope.

Assessment of risk to the affected resource (a special application of environmental risk assessment) may be used as needed, along with other appropriate evaluations, to help in establishing appropriate action and/or cleanup levels, particularly where no regulatory levels have been established or where multiple contaminants complicate the evaluation.

When required, interim corrective actions will be carried out where immediate risk exists to workers, the public, and/or the environment. Sufficient data must exist at these CAUs to demonstrate that actions can be taken to stabilize, minimize, or mitigate the contamination until the final corrective action can be completed.

The process for implementing CAIs and/or corrective actions has been subdivided into three flow paths that are based on the existing CAS data and on site conditions: the housekeeping process, the SAFER process, and the complex process. Figure 1-2 describes the corrective action processes that will be used to determine appropriate CAU activities.

1.5.1 Housekeeping Process

The housekeeping process will be used for CASs that do not require further investigation before the corrective action is completed. At these CASs, data gathered during records searches and field verification activities sanction the removal of source materials, directly impacted soil, and subsequent confirmatory sampling without additional investigation. A work plan containing developed procedures for conducting these activities has been written will be revised as needed in coordination with NDEP. Documentation of the source removal and confirmation sampling, if required, will be through a CR.

1.5.2 SAFER Process

The SAFER process will be employed at CAUs where the parties agree that enough information exists about the nature and extent of contamination to propose an appropriate corrective action before a CAI is completed. This process combines elements of the DQO process and the observational approach to help plan and conduct corrective actions. The DQOs will be used to define the type and quality of data needed to complete the investigation phase of the process. The observational approach will provide a framework for managing uncertainty and planning decision making.

The purpose of the investigation in the SAFER process is to document and verify the adequacy of existing information; to affirm the decision for either clean closure, closure in place, or no

further action; and to provide sufficient data to implement the corrective action. Actions and decisions for this process are governed by SAFER Plans. These plans incorporate the required elements of CAIPs, CADDs, and CAPs to allow work to proceed directly from the CAI to the corrective action. The plans will identify decision points where NNSA/NFO and/or DoD will reach consensus with NDEP before the next phase begins. After SAFER activities are completed, or if the selected remedy is no further action, a CR will be prepared and submitted to NDEP.

1.5.3 Complex Process

The complex process will be used for those CAUs where additional information is needed for the evaluation of possible CAAs. The CAIPs for CAUs following the complex process will focus on the investigation tasks required to prepare the CADD, CADD/CAP, or CADD/CR, and will include the DQO process. As part of this process, conceptual models for CASs will evolve as data are collected and reviewed. When the investigation is complete, a CADD, CADD/CAP, or CADD/CR will be prepared to evaluate CAAs and to identify the selected corrective action.

After NDEP approves the selected corrective action outlined in the CADD, a CAP will be developed. This plan will be the document guiding the CAU corrective action. After the corrective action is completed, or if the selected corrective action is no further action, a CR will be developed and submitted to NDEP.

Upon approval of the completion of a corrective action, NDEP will issue a notice of completion, and the CAU may be transferred from Appendix III (Corrective Action Investigations/Corrective Actions) to Appendix IV (Closed Corrective Action Units). If long-term monitoring is necessary, the monitoring requirements for CASs or CAUs on facilities subject to the RCRA permit will be incorporated into the permit. Long-term monitoring requirements for CASs or CAUs on facilities not subject to the RCRA permit will be outlined in CRs.

2.0 Industrial Sites

The current inventory of environmental restoration CASs at the NNSS, TTR, and NTTR indicates a widespread distribution of more than1,800 Industrial Sites that may require some level of investigation and corrective action.

2.1 Corrective Action Units

Industrial Sites CASs will be grouped into CAUs based on four criteria: (1) responsible party, (2) site function, (3) geographic location, and (4) length of time needed to complete the action. The CASs will first be assigned to CAUs based on the party responsible for the investigation and/or corrective action. The CASs will then be grouped by function when they share similar technical issues and waste types. Those CASs with similar functions may be grouped geographically with other CASs to facilitate corrective actions. It is possible that the cleanup of a specific geographic area, such as a portal tunnel area, will be considered a priority, in which case a CAU may contain CASs with a variety of functions. Finally, CASs will be grouped into CAUs according to the length of time needed to complete the corrective actions.

Table 1-2 contains a listing of functional categories that represent the types of CASs normally considered as Industrial Sites. These categories range from landfills, mud pits, and leachfields with or without radiological contamination; to discarded or abandoned materials such as drums, batteries, and lead materials. The CASs with materials that are easily disposed are considered to be housekeeping sites and account for approximately one-third of all Industrial Sites CASs.

2.2 Corrective Action Strategy

Corrective actions for Industrial Sites CAUs will range from no further action to clean closure. The types of corrective actions may be as simple as small, isolated housekeeping site source removals to large-scale, multi-faceted activities addressing shallow groundwater and subsurface soil contamination. To further define the corrective actions for the wide range of Industrial Sites, the overall corrective action process has been subdivided into three possible process flow paths: (1) the housekeeping process, (2) the SAFER process, and (3) the complex process. Decisions to use specific processes are based on the complexity of the CAS conditions and the possibility of

Table 1-2
Industrial Sites Functional Category

Functional Category	Functional Category
Aboveground Storage Tank	Mud Pit
Abandoned Chemicals	Oil/Fuel Spills (nonhousekeeping)
Boiler	Other Ponds/Lagoon
Building	Other Spill Sites
Buried Ordnance Site	Radiologically Contaminated Area
Burn Cage	Sanitary Landfill
Cable Hole	Septic Tank
Chemical Storage	Sewage Lagoon
Conditional Release Storage Yard	Shaft
Construction Waste Landfill	Shaker Plant
Decontamination Pad	Sludge Burial Pit
Decontamination & Decommissioning Facility	Solid Propellant Burn Site
Depleted Uranium Surface Debris Area	Steam Cleaning Facility
Drillback Sump/Cellar	Tunnel
Drillhole	Tunnel Pond
Fire Training Area	Tunnel Portal Area
Generator	Underground Discharge Point
Hazardous Waste Accumulation Site	Underground Storage Tank
Housekeeping Site[a]	Vent Hole
Injection Well	Waste Disposal Trench
Leachfield	Waste Disposal Site
Lead (nonhousekeeping)	Waste Dump
Magazine/Bunker	Miscellaneous
Muckpile	

[a]Examples of wastes at housekeeping sites are hazardous constituents such as abandoned chemicals, drums/barrels, lead shielding, other spill sites; petroleum sites such as epoxy tar sites, oil/fuel spills; others such as batteries, buckets/cans, compressed gas cylinders; miscellaneous; transformers/polychlorinated biphenyls (PCBs); and trash/debris.

choosing CAAs before investigations are complete. Each of these processes and their respective flow paths are described further in Section 2.3.

The preparation of plans and their contents will correspond with the complexity of each CAU and the chosen corrective action process. If appropriate, each CAS will have a CAIP. The CAIP will contain or reference all necessary management and technical information. Optional CAU work plans may be written and referenced if information applies to all CASs in a CAU, or if CAUs are sufficiently similar to facilitate the use of common information.

The CADDs, CAPs, and CRs will be prepared, as necessary, to guide and document corrective action decisions and activities. If sufficient information exists at a particular CAU to plan the corrective actions before the investigation is completed, a SAFER Plan may be prepared. This plan will contain all the necessary elements usually found in CAIPs, CADDs, and CAPs.

2.3 Implementing CAIs and Corrective Actions

Corrective action units will be prioritized for corrective action and listed in Appendix III (Corrective Action Investigations/Corrective Actions). A preliminary characterization will be performed based on existing data. These data will be used to develop conceptual models to determine appropriate investigation and corrective action tasks, as well as to select a corrective action process. Data quality objectives will be developed by DOE and/or DoD as appropriate, with NDEP participation, to assist in the development of work scope. Stakeholder input may be required depending upon the nature of the work scope.

One of three corrective action processes will be selected as appropriate for the CAU based on site conditions. The following sections describe the work flow process and decision points necessary to implement corrective actions for Industrial Sites (Figure 1-2).

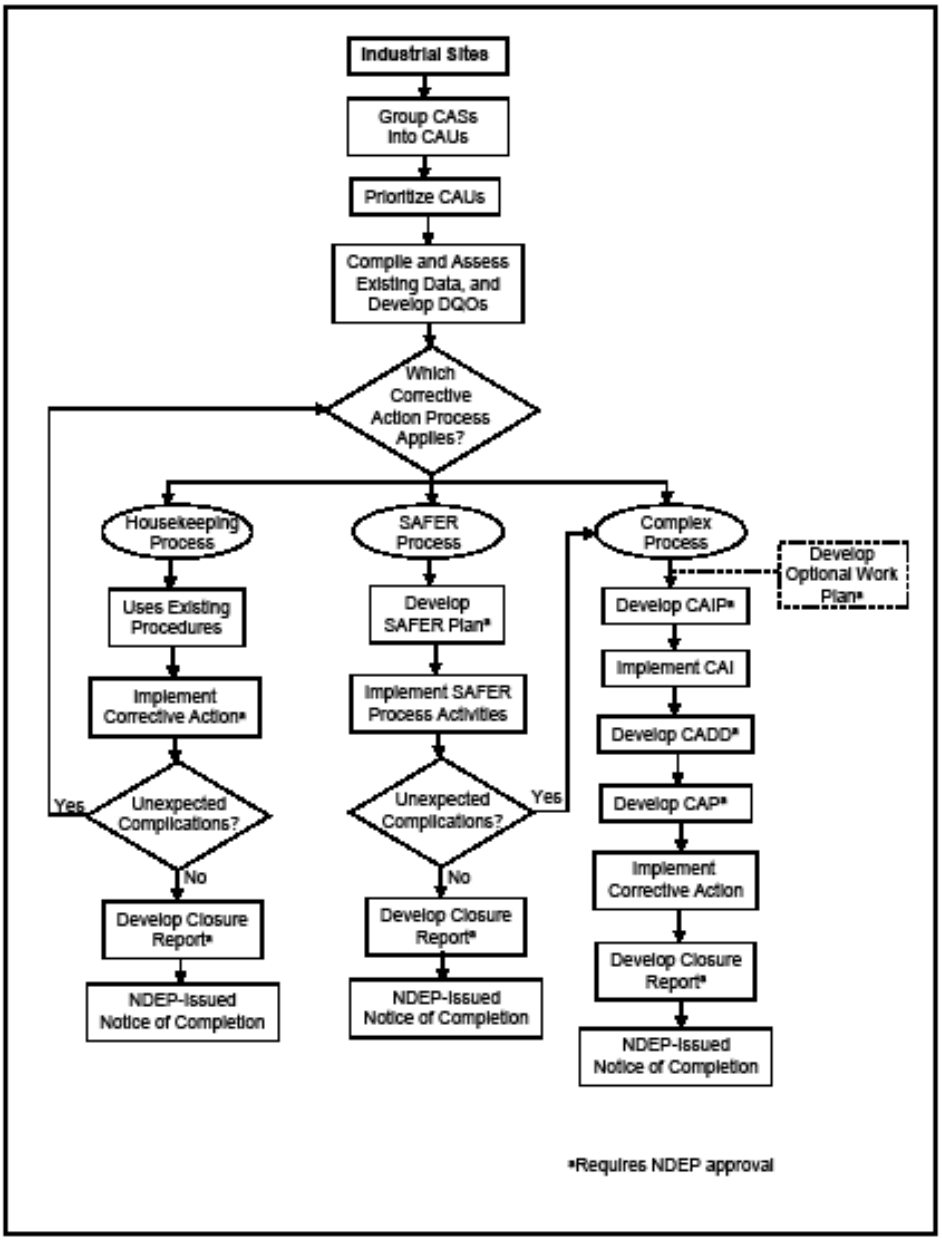

Figure 1-2
Industrial Sites Corrective Action Process

2.3.1 Housekeeping Process

The CAUs that may be closed through the housekeeping process are distinguished from other Industrial Sites CAUs because they do not require further investigation before closure. Hundreds of housekeeping CASs are anticipated to have sufficient data, gathered during records searches and field verification activities, to warrant removal of source materials and confirmatory sampling or to warrant recommendation for closure, if materials have already been removed. Source removal, waste disposition, and appropriate confirmatory sampling will be conducted in accordance with established work plans.

Documentation of the source removal and confirmatory sampling, if required, will be through a CR, which will represent the formal, “no further action” recommendation for each CAS within a housekeeping site CAU. If a housekeeping CAS proves more complex than anticipated, such as finding an unexpected waste type, the CAS will be recommended for inclusion into a different CAU that will follow another process flow path.

The CASs falling into the housekeeping site functional category are widespread, especially at the NNSS. Although many of these CASs have already been identified and are being closed through the housekeeping process as part of the Environmental Restoration Sites Inventory, new housekeeping CASs may regularly be identified as part of everyday operational activities at the NNSS. When previously unidentified materials fitting into the housekeeping category are encountered in the field, they will be identified and marked as a new CAS, and added to Appendix II (Corrective Action Sites/Units).

Newly identified recyclable or sanitary waste materials, when not associated with visible staining and when not located in a known contamination area, will be noted and tallied. They will not be identified as a new CAS or marked in the field. A list of these sites will be compiled and updated regularly for inclusion in periodically scheduled NNSS cleanup activities of nonhazardous waste types. Examples of the types of materials that will not be staked as new CASs include empty drums; empty cans or buckets; intact batteries; construction debris such as untreated lumber, rebar, or concrete; and recyclable materials such as cable, steel, drill pipe, empty gasoline cans, empty gas cylinders, and nuts and bolts.

2.3.2 SAFER Process

The CAUs that may be closed through the SAFER process have conceptual corrective actions that are clearly identified. Consequently, CAAs can be selected before the completion of an investigation given anticipated CAI results.

The SAFER process requires some degree of investigation to determine whether the appropriate corrective action will be a clean closure, closure in place, or no further action. The purpose of the investigation will be to document and verify the adequacy of existing information; to affirm the decision for either clean closure, closure in place, or no further action; and to provide sufficient data to implement the corrective action. Risk assessment requirements and criteria will be formulated by the parties with NDEP participation before the SAFER Plan is submitted.

The SAFER Plan will be the primary document governing actions and decisions at CAUs employing the SAFER process. The plan will incorporate required CAIP, CADD, and CAP elements to allow work to proceed directly from the CAI to the corrective action. The plans will identify decision points, developed in cooperation with NDEP, where DOE and/or DoD will reach consensus with NDEP before the next phase of work begins. If specific conditions or findings fall outside the bounds of the SAFER Plan, the CAS will be transferred into an appropriate CAU and the complex process used. The SAFER Plans may require stakeholder review before implementation. After SAFER activities are completed, a CR will be prepared and submitted to NDEP.

2.3.3 Complex Process

The complex process differs from the SAFER process because the CAU CAAs cannot be selected before the CAI has been completed. The CAIPs for these CAUs will focus on investigation tasks required to prepare CADDs and will include the DQO process. When data have been collected and the investigation is complete, a CADD will be prepared to evaluate CAAs and the selection of the appropriate corrective action.

After NDEP approves the CADD, a CAP will be developed and the corrective action initiated. A CR will be developed to document the completion of corrective action activities and submitted to

NDEP. After approval of the corrective action, NDEP will issue a notice of completion, and the CAU will be moved to Appendix IV (Closed Corrective Action Units).

Risk assessment requirements for CAUs which follow the complex process will be identified in the DQO process. Many of the CAUs following the complex process may be dominated by contaminants without established regulatory levels. In addition, the location of the site and intended future land use may require assessment of risk as an element in the evaluation of closure activities.

3.0 Underground Test Area

A total of 908 nuclear detonations occurred in shafts or tunnels at the NNSS. They are categorized into 878 CASs assigned to the UGTA activity. These CASs are grouped into five CAUs based primarily on geographically distinct areas of underground testing (basins of Yucca and Frenchman Flat, tunnel beds of Rainier Mesa and Shoshone Mountain, and highlands of Central and Western Pahute Mesa). Any ambiguity resulting from different language used in this subpart of Appendix VI versus the body of the FFACO shall be resolved in favor of terms and conditions found in the body of the FFACO.

3.1 Corrective Action Units

The UGTA activity comprises the following CAUs, shown in Figure 3-1:

- Frenchman Flat (CAU 98) consists of 10 CASs located in the northern part of Area 5 and the southern part of Area 11 within the Frenchman Flat topographic basin. These detonations were conducted in both vertical emplacement holes and mine shafts primarily in thick deposits of basin-fill alluvium.

- Western Pahute Mesa (CAU 102) consists of 18 CASs along the western edge of Area 20. These detonations were conducted in vertical emplacement holes in volcanic aquifers and confining units. The CAU is separated from Central Pahute Mesa by the Boxcar Fault; it is combined with the Central Pahute Mesa CAU in current UGTA studies.

- Central Pahute Mesa (CAU 101) consists of 64 CASs in Areas 19 and 20. These detonations were all conducted in vertical emplacement holes in similar volcanic units as the Western Pahute Mesa CAU.

- Yucca Flat/Climax Mine (CAU 97) consists of 717 CASs located in Areas 1, 2, 3, 4, 6, 7, 8, 9, 10, and 3 CASs located in Area 15. These detonations were conducted in vertical emplacement holes and tunnels in alluvium, vitric and zeolitic tuff, fractured granite (Climax Mine), and carbonate rocks.

- Rainier Mesa/Shoshone Mountain (CAU 99) consists of 60 CASs on Rainier Mesa and 6 CASs on Shoshone Mountain located in Areas 12 and 16. These detonations were conducted above the water table in tunnels constructed in bedded and non-welded vitric and zeolitized volcanic tuff.

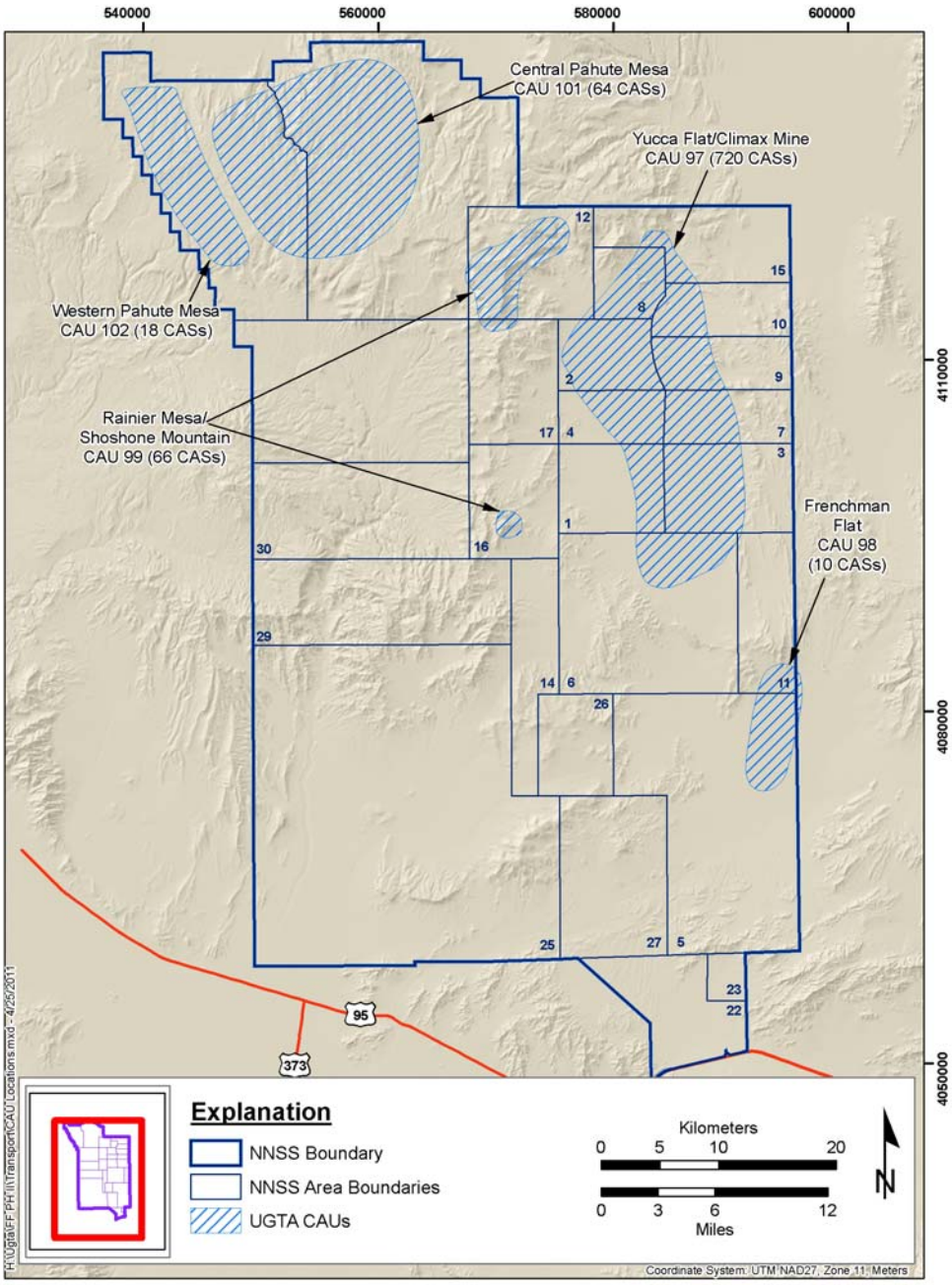

Figure 3-1
UGTA Corrective Action Units

The process outlined in Section 1.3 was used for the initial prioritization of UGTA CAUs. Assessments of future radionuclide transport will be conducted for all CAUs with an emphasis on identification of areas of anticipated migration of contaminants off of the institutionally controlled boundaries of the NNSS.

3.2 Corrective Action Strategy

The corrective action strategy for UGTA follows the four steps identified in the introduction to Appendix VI of the FFACO (Section 1.0) with the UGTA activity focused on ". . . local or regional impacts to groundwater resources . . . ." The implementation of the corrective action strategy for UGTA is through corrective action activities, which comprise four stages:

1. The CAIP stage
2. The CAI stage
3. The CADD/CAP stage
4. The CR stage

The execution of these corrective action stages is referred to as the UGTA strategy and is illustrated on Figure 3-2. Three assumptions for the UGTA strategy are described in the Nevada Test Site Environmental Management End State Vision (DOE, 2006 [p. 52]). First, groundwater technologies for removal or stabilization of subsurface radiological contamination are not cost effective. Second, because of these high remediation costs, closure in place with monitoring and institutional controls is the only likely corrective action. Finally, the important potential risks from radiological contamination of groundwater are to workers, the public, and the environment; and exposure to these risks requires access to groundwater.

The technical basis for achieving the UGTA strategy is through an evaluation of each CAU using a combination of approaches, including the following:

1. Data collection consisting of, but not limited to, drilling exploration, hydrologic testing, and field and laboratory studies designed to characterize the hydrogeological setting
2. Modeling of the hydrogeological setting, the radiological source term, and flow and contaminant transport to forecast areas of current and future contamination for 1,000 years

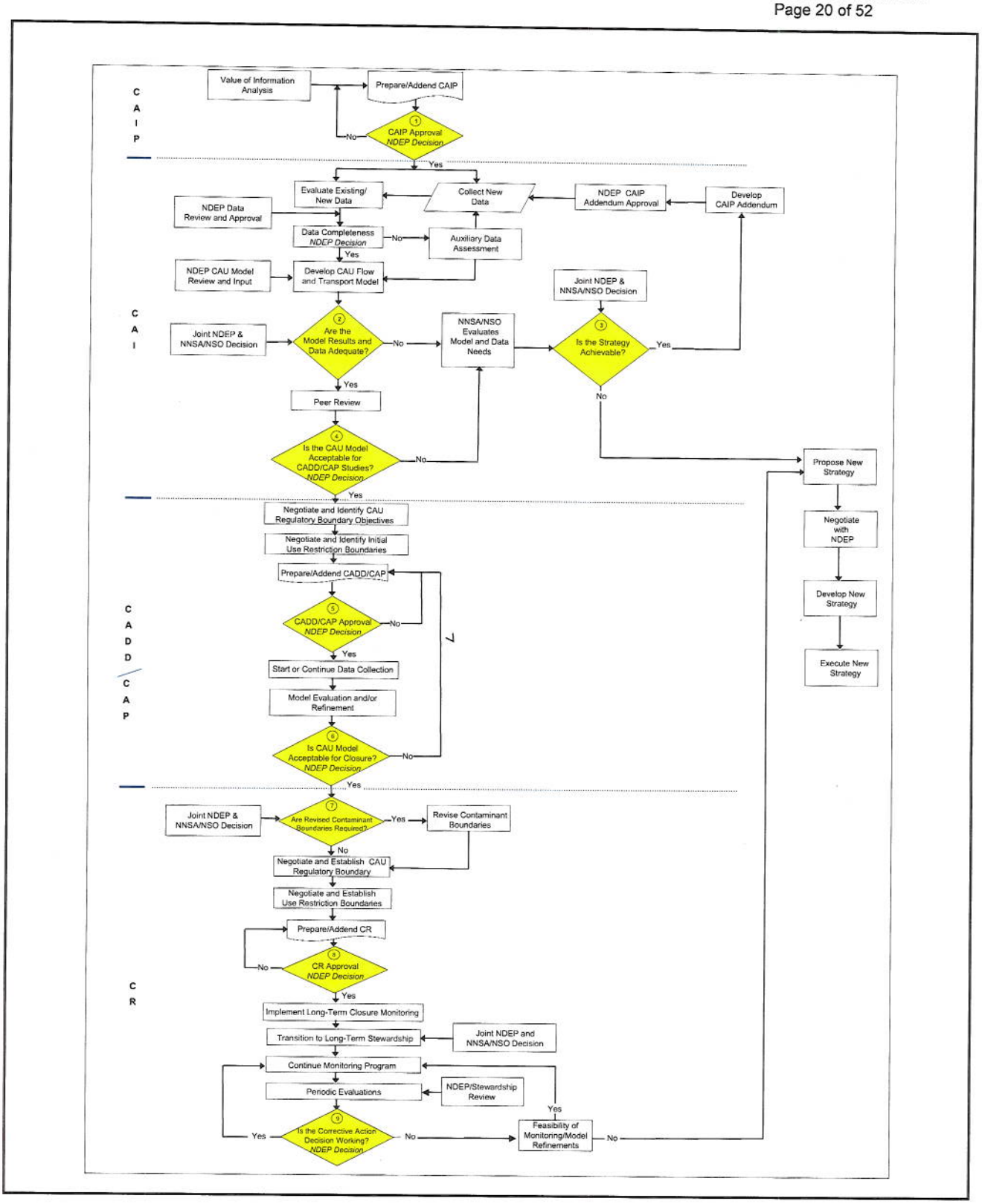

Figure 3-2
UGTA Strategy Flowchart

3. Iterative model evaluations and monitoring of groundwater near and downgradient of areas of past underground testing

4. Identification and documentation of land-use policies (institutional controls) designed to restrict future public access to groundwater contaminated by underground testing

This four-component approach is used to accomplish the primary objective of the UGTA strategy, which is defining perimeter boundaries for each CAU over the next 1,000 years. The perimeter boundaries will enclose areas potentially exceeding the radiological standards of the *Safe Drinking Water Act* (SDWA) (CFR, 2010). Confidence in model results will be developed through model evaluation and monitoring studies, and the uncertainty in model forecasts will be managed through institutional control of areas of potential groundwater contamination.

The goal of the four combined approaches is to provide the data, model forecasts, and confidence in the model results to facilitate informed regulatory decisions by NDEP and NNSA/NFO. The goal of regulatory decisions is to protect the public and the environment from the risk of radiologically contaminated groundwater. Risk to human health and safety in this context is defined as the combined probability of exposure to groundwater contamination, which is identified through model forecasts of probabilistic contaminant boundaries, and the consequences of this exposure. The consequences of exposure will be based on the radiological standards of the SDWA, which may or may not be supplemented with radiological dose calculations using acceptable exposure scenarios. The integration and balancing of modeling studies, monitoring, and institutional controls provide the foundation of a risk-informed strategy for regulatory decision-making. This approach is consistent with the guidance by the National Research Council (NRC) on the use of models in environmental regulatory decision making (NRC, 2007).

The NNSA/NFO and NDEP will evaluate technological advances in groundwater remediation during the life cycle of the UGTA activity, and significant changes in technology and/or the cost of remediation alternatives could lead to a reevaluation of the assumptions of the UGTA strategy.

3.2.1 Concepts and Definitions for the UGTA Strategy

The modeling forecasts of contaminant transport provide the fundamental basis for identifying contaminant boundaries, and for establishing access restrictions to contaminated groundwater and a regulatory boundary for each CAU. The term ***forecast*** is used instead of ***prediction*** to denote the methods and uncertainty of evaluating contaminant boundaries. Transport modeling simulations are used to compute radionuclide concentrations in time and space within a CAU. These three-dimensional (3-D) concentration data are integrated into probabilistic forecasts of the likelihood of groundwater exceeding or remaining below the radiological standards of the SDWA (CFR, 2010). Contaminant boundaries are not discrete ***predictions*** of the location or concentration of contaminants but instead are spatial representations of the probability of exceeding the SDWA radiological standards. The ***forecasts*** provide planning tools to facilitate regulatory decisions designed to protect the health and safety of the public.

A ***contaminant boundary*** is formally defined as a probabilistic model-forecast perimeter and a lower hydrostratigraphic unit (HSU) boundary that delineates the extent of radionuclide-contaminated groundwater from underground testing over 1,000 years. The contaminated groundwater is a volume (3-D), and this volume is projected upward to the ground surface to define a two-dimensional ***contaminant boundary*** perimeter. Contaminated groundwater is defined as water exceeding the radiological standards of the SDWA. Simulation modeling of contaminant transport will be used to forecast the location of ***contaminant boundaries*** within 1,000 years and must show the 95th percentile of the model results (boundary outside of which only 5 percent of the simulations exceed the SDWA standards).

The CAU models will use the inventory and inventory uncertainty from the *Nevada Test Site Radionuclide Inventory*, 1951-1992 (Bowen et al., 2001) as the initial radiological source term used to predict the hydrological source term incorporated into transport models. The complex geological setting and groundwater pathways for the NNSS combined with limitations in obtaining characterization data for these systems results in significant uncertainty in the model studies and forecasts of ***contaminant boundaries***. The uncertainty includes both statistical (variability and parametric or knowledge uncertainty) and structural uncertainty (numerical model and conceptual model uncertainty). The multiple components of uncertainty will be

evaluated through development of multiple alternative model approaches that are integrated with Monte Carlo simulations of contaminant transport. These multiple alternative approaches will require multiple sets of Monte Carlo transport simulations and produce an ensemble of ***contaminant boundary*** forecasts for each CAU. Additional results showing individual radionuclide contributions to the SDWA standard, the contaminant boundary configurations at different time intervals and other percentiles of exceeding the SDWA standards (e.g., 50th or 75th percentiles) may also be used.

Figures 3-3 and 3-4 illustrate how modeling uncertainty in radionuclide transport can be expressed as probability contour maps where the contours are equivalent to percentiles on a cumulative distribution function of exceeding the SDWA radiological standards.

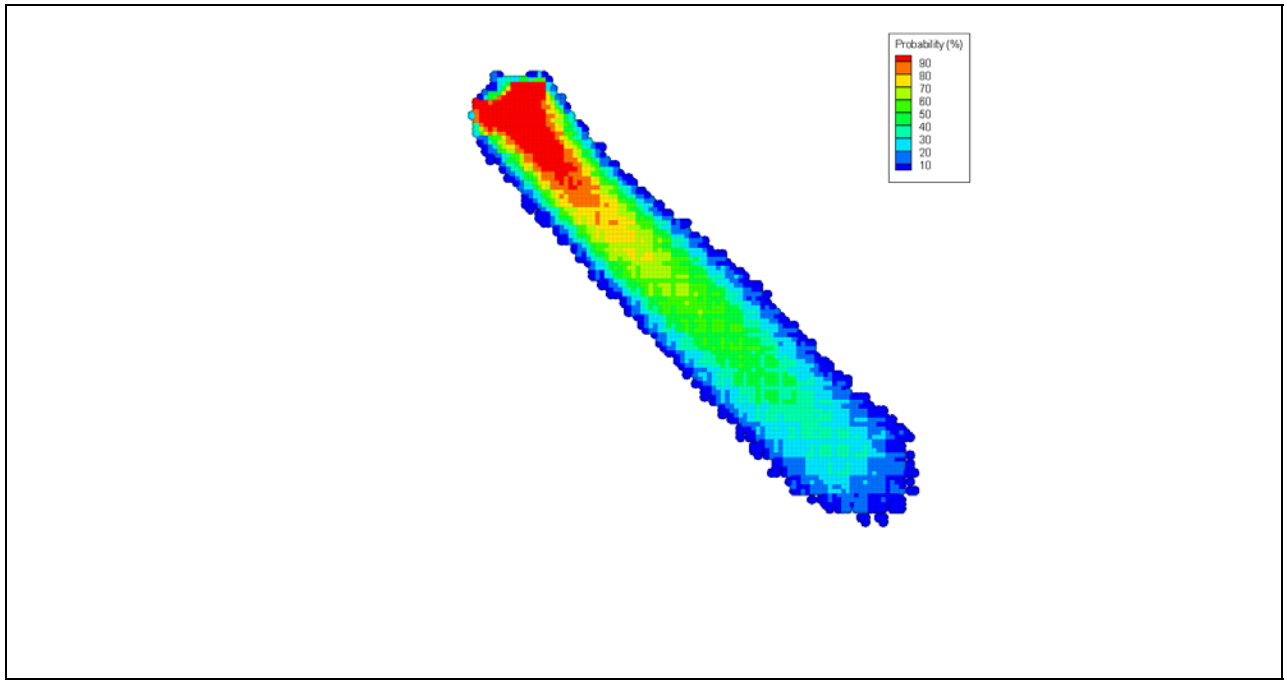

Figure 3-3
Example of a Contaminated Boundary Forecast for a Single Underground Detonation in a Groundwater Flow Field

(Detonation is located at the upper left top of the diagram.) The color contours represent the probability of exceeding the radiological standards of the SDWA. The probability of not exceeding these standards (groundwater outside an individual contour) is equal to or less than 1 – P where P is the contour value of the probability of exceedance (shown on the figure legend).

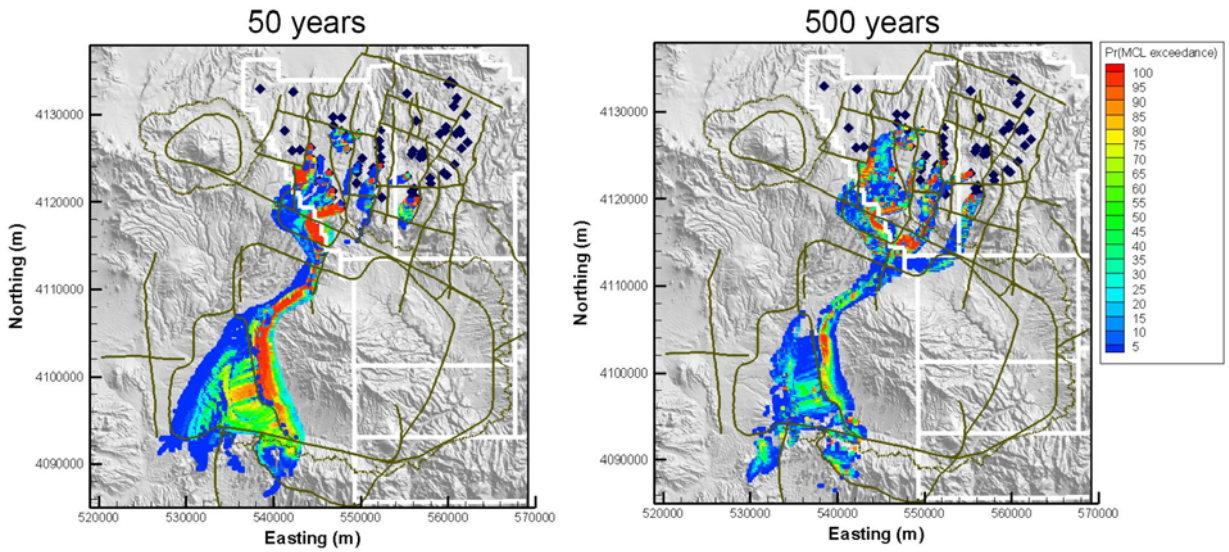

Figure 3-4
Examples of Contaminant Boundary Forecasts at Different Time Intervals for a Composite of Underground Detonations

The blue diamonds locate underground detonations, and the color-coded contours are probability contours of contaminant boundary forecasts at 50 and 500 years for radionuclide transport for the Pahute Mesa CAU. This figure is adapted from the Phase I transport model of Pahute Mesa (SNJV, 2009) and does not represent a formal contaminant boundary forecast.

Probability contours on Figure 3-3 enclose areas where the probability of exceeding the SDWA is greater than or equal to the contour value. For example, there is a 90 percent probability that the water inside the red contour of Figure 3-3 is greater than or equal to the SDWA standards during the next 1,000 years. Conversely, and a more useful regulatory perspective, there is a 90 percent or greater probability that groundwater outside the 10-percentile contour will remain less than the SDWA standards during the next 1,000 years and only a 10 percent probability or less that groundwater will exceed the SDWA standards. Alternative definitions of probability values from Figures 3-3 and 3-4 can be used to define ***contaminant boundaries*** dependent on the degree of certainty required by decision makers for identifying contaminated and uncontaminated groundwater. ***Contaminant boundaries*** will be assembled for individual underground detonations (Figure 3-3) or for a composite of underground detonations (Figure 3-4). ***Contaminant boundaries*** will be established initially from modeling studies of flow and transport in the CAI stage. These boundaries may be revised at the start of the CR stage (Figure 3-2). The NNSA/NFO must demonstrate with an acceptable level of confidence (reasonable expectation) gained through assessing the ensemble of ***contaminant boundaries***, that groundwater outside the ***contaminant boundary*** meets the radiological standards of the SDWA.

Use restriction boundaries will be negotiated and established by NNSA/NFO and NDEP for each CAU where the ***use restriction boundaries*** are established from a combination of assessments of ***contaminant boundary*** forecasts, requirements for protection of worker health and safety, and required administrative policies designed to restrict access to contaminated groundwater. These areas of potentially contaminated groundwater *inside* ***the use restriction boundaries*** are expected to require institutional controls to restrict access to contaminated groundwater. These controls may include the existing institutional control policies within the NNSS and may be supplemented, for both within and outside the NNSS boundaries, with additional legal restrictions on land use or access to groundwater, processes and procedures for monitoring compliance to restrictions, and maintenance of boundaries or deterrents to support restrictions. The considerable depth to groundwater throughout most areas of the NNSS and vicinity effectively restricts surface exposure to contaminated groundwater. The NNSA/NFO and the long-term stewardship organization will be responsible for establishing and ensuring compliance with the institutional controls. Initial ***use restriction boundaries*** will be identified at

the start of the CADD/CAP stage of the UGTA strategy, and these boundaries will be established at the start of the CR stage before developing a CAU closure report. The ***use restriction boundaries*** may change during the CADD/CAP and/or CR stages (Figure 3-2).

During the CADD/CAP and CR stages, NDEP and NNSA/NFO will negotiate and establish two regulatory-based requirements (Figure 3-2). The first are ***CAU regulatory boundary objectives*** for individual CAUs, and the second is a ***regulatory boundary***; both requirements are designed to enhance protection of the public and environment. The ***CAU regulatory boundary objectives*** are statements of specific objectives for each CAU to protect the public and environment from exposure to groundwater contaminated by underground testing of nuclear weapons on the NNSS. The ***CAU regulatory boundary objectives*** may be revised during the CADD/CAP and CR stages. The ***regulatory boundary*** provides protection for the public and the environment from the effects of migration of radioactive contaminants. If radionuclides reach this boundary, NNSA/NFO will be required to submit a plan to NDEP, for approval, to meet the specific ***CAU regulatory boundary objectives***.

Regional models of groundwater flow within the NNSS and the Death Valley Regional Groundwater Flow system of Nevada and California have been completed (DOE/NV, 1997; Belcher et al., 2004; Belcher and Sweetkind, 2010). These regional models may be used to establish boundary conditions, groundwater boundary flows, and the uncertainty in these flows for individual CAUs.

The CAU models are based on steady-state conditions (local exceptions include, for example, transient effects of long-term pumping of the CAMBRIC site and water-level transients from underground testing in Yucca Flat). Flow and transport models for each CAU will be constructed and will consider the following, at a minimum:

1. Alternative hydrological framework models of the CAU modeling domain
2. Uncertainty in the radiological and hydrological source term
3. Alternative models of recharge
4. Alternative boundary conditions and groundwater flows

5. Multiple permissive sets of calibrated flow models
6. Probabilistic simulations of transport using plausible sets of alternative framework and recharge models, and boundary and groundwater flows from calibrated flow models
7. Ensembles of forecasts of contaminant boundaries for the CAU
8. Sensitivity and uncertainty analysis of the model outputs

Saturated conditions are expected to be modeled for all CAUs. For CAUs where unsaturated conditions may be important (Rainier Mesa/Shoshone Mountain, Yucca Flat/Climax Mine, and possibly Frenchman Flat), unsaturated flow and transport modeling may be conducted. This modeling will be at appropriate scales and levels of model complexity to evaluate flow and radionuclide transport from the unsaturated zone to the water table.

Model ***acceptance*** by NDEP is required at two decision points of the UGTA strategy (Figure 3-2) for each CAU. Model ***acceptance*** is defined as a joint decision by NNSA/NFO and NDEP that there is sufficient credibility/reliability of model studies to use the transport modeling forecasts as the basis for regulatory decisions leading to protection of the health and safety of the public.

Model ***acceptability*** is achieved through a process of building confidence in model results through overlapping processes of model ***verification***, ***calibration***, and model ***evaluation*** during the iterative stages of data gathering, model refinements, and monitoring. The acceptance and terminology of modeling "validation" for the hydrological sciences remains a controversial topic (Anderson and Bates, 2001). The following terms are used in the UGTA correction action strategy for consistency and transparency:

- Model ***verification*** includes evaluations to ensure the code is programmed correctly and the algorithms are implemented properly with no assumption errors or program bugs.
- ***Calibration*** refers to demonstration that a model adequately simulates observed hydraulic conditions (calibration values consisting mostly of field-measured hydraulic heads and estimated boundary flows) within an acceptable range of error throughout a model domain.

- The concept of model ***evaluation*** is used as a replacement for model validation, which is recognized as a largely unobtainable goal. Model ***evaluation*** refers to the iterative process of testing whether model output makes sense using a range of measures of model adequacy. Model ***evaluation*** for the UGTA strategy involves development of increased confidence in the reliability of model outputs through successive efforts to test and extend the model using multiple alternative approaches designed to assess the impact of uncertain model components. Successful ***evaluation*** of a model is achieved through a demonstrated inability to disprove a model for a range of modeling and monitoring studies conducted during the CAI, CADD/CAP, and CR stages of the UGTA strategy. The NRC (2007) recognizes model evaluation as a process of assessing whether a model is suitable for its intended purpose with model evaluation serving to build confidence in model applications and in understanding the strengths and limitations of a model. The U.S. Environmental Protection Agency defines model evaluation as ". . . the process used to generate information to determine whether a model and its analytical results are of a quality sufficient to serve as the basis for a decision" (EPA, 2009 [p. 19]). They recognize model evaluation as a continuing process that is conducted over the life cycle of a project, a concept that is consistent with the UGTA strategy shown on Figure 3-2.

- Model ***verification*** will be documented in the CADD/CAP report; model ***calibration*** is documented in the CAU flow and transport report. Model ***evaluations*** continue through all stages of the UGTA strategy, and results of these ***evaluations*** are described in the CAU transport document and reports for the CADD/CAP and CR stages.

- Model ***acceptability*** is decision dependent, and model ***acceptance*** by NDEP is required at two steps in the UGTA strategy: (1) at the end of the CAI stage of the UGTA strategy after a joint NNSA/NFO and NDEP review of adequacy of model results and data and peer review of the model; and (2) at the end of the CADD/CAP stage before starting the CR stage of the UGTA strategy.

3.3 Implementing the UGTA Corrective Action Strategy, Stages, and Steps

Figure 3-2 is a flowchart of the major steps for the four stages of the UGTA strategy, which are designed to implement the corrective action strategy of Appendix VI of the FFACO. Successful completion of the stages of the UGTA strategy will lead to closure of CAUs and initiation of long-term closure monitoring program.

Two types of NNSA/NFO and NDEP interactions are illustrated on the UGTA strategy diagram (Figure 3-2). These comprise review and approval requirements (boxes on Figure 3-2) and

decision points within the UGTA strategy (decision diamonds on Figure 3-2). Data and document review and approval requirements are implemented through written review comments by NDEP and written responses by NNSA/NFO to resolve the NDEP comments. The written comments are focused on technical and programmatic issues that generally do not significantly change the program progression illustrated on the strategy diagram. In contrast, decision points occur at major transitions in the UGTA strategy and establish whether the UGTA activity continues through the strategy.

There are nine decision points shown on Figure 3-2. Eight of the decision points are within the UGTA strategy; the ninth decision point is under long-term stewardship after completion of the UGTA activity. Three of the UGTA decision points are at the transition between stages of the UGTA strategy. Non-approval of decision points by NDEP affects the program progression and can lead to a reassessment of whether the UGTA strategy is achievable.

The CAIP stage includes completion of a value of information analysis (VOIA) and preparation of individual CAU investigation plans, including review comments and responses leading to the first decision point: NDEP must approve the CAIP before proceeding to the CAI (Figure 3-2). The CAI stage includes data collection, data evaluation and analysis, and development of CAU-specific numerical models of flow and transport using CAU-specific data; analogue data from appropriate HSUs of the NNSS and data from the hydrological literature may also be used to supplement site-specific data. The NDEP provides review comments and approves the CAI data assessments through the process of comment resolution.

When all data documents are approved, NDEP will assess the completeness of data collection and data evaluation before modeling studies begin (Figure 3-2). The goal of this assessment is to identify whether there are significant gaps in existing data that could affect the efficiency of the modeling studies. If no gaps are identified, NNSA/NFO will initiate modeling studies. If gaps are identified, NNSA/NFO and NDEP will conduct a joint evaluation of two questions: (1) Could the data gaps be addressed through focused data collection? or (2) Do the data gaps require modeling studies to assess their impacts and develop cost-effective approaches to data collection? If the answer to question (1) is yes, the program will immediately conduct the

required data collection activities without the requirements of assessing the achievability of the UGTA strategy and developing an amended CAIP. This step in the CAI stage provides flexibility to respond to obvious data gaps without significant schedule and cost impacts. The data collection activities will be identified and negotiated through a memorandum of agreement by NNSA/NFO and NDEP. If the answer to question (2) is yes, the program will start modeling studies and follow the standard steps of the CAI stage of the UGTA strategy. The NNSA/NFO will emphasize required work in the modeling studies to resolve the identified data gaps.

The CAU modeling studies of the CAI stage will assess the eight modeling topics described in Section 3.2.1 with the objective of evaluating future migration of contaminants to forecast contaminant boundaries that encompass the uncertainty of current and future contaminant migration. The NDEP will review reports of the CAU flow and transport models and approve the documents through the process of comment resolution with NNSA/NFO (Figure 3-2).

The second major decision point of Figure 3-2 is a joint NNSA/NFO and NDEP decision of the adequacy of the data and results for the flow and transport model, a judgment whether there is sufficient confidence in the model results to progress to the third stage of the UGTA strategy. If CAU-specific modeling is not successful in achieving CAU objectives, NDEP and NNSA/NFO will evaluate model alternatives leading to the third decision point: Is the UGTA corrective action strategy achievable? If the answer is no, new strategies will be evaluated (outside of and separate from the corrective action process described in this document). If the data are inadequate but the strategy is judged by NNSA/NFO and NDEP to be achievable, the modeling results will be used to develop a CAIP addendum, and a new cycle of data collection and refinement of flow and transport modeling will be initiated.

If the model results and data are judged adequate, a peer review of the transport model results will be conducted before proceeding to the fourth decision point at the end of the CAI stage of the UGTA strategy. This decision point addresses model acceptance for the following question: Is there sufficient confidence in the CAU model results to proceed to the CADD/CAP stage of the UGTA strategy with implementation of model evaluation studies? If the answer is yes, the studies will move to the CADD/CAP stage of the UGTA strategy. If the answer is no, the project

will remain in the CAI stage described in the previous paragraph and return to an evaluation of model and data needs and the achievability of the UGTA strategy.

The first two steps in the CADD/CAP stage are for NNSA/NFO and NDEP to negotiate and identify ***CAU regulatory boundary*** objectives and initial ***use restriction boundaries***. After these objectives and boundaries are identified, the CADD/CAP will be developed and will include identification of a model evaluation strategy to perform the following:

1. Continue the process of model evaluation with an increased focus on assessing the reliability of model results.
2. Test contaminant boundary forecasts and the uncertainty in contaminant boundary forecasts through data collection, which may include additional drill-hole exploration and focused testing and sampling. Well locations during the CADD/CAP stage are expected to be within the ***contaminant*** and ***use restriction boundaries*** where the probability of encountering radionuclide contamination is higher, thus providing more robust testing of model results. Model evaluation wells from these studies may become part of a long-term closure monitoring design.
3. Build confidence that the results from modeling of flow and contaminant transport can be used for regulatory decisions required for CAU closure.

The CADD/CAP will be reviewed through comment resolution by NDEP and NNSA/NFO. If the CADD/CAP document is approved at the fifth decision point of the UGTA strategy, the CAP will be implemented, including the installation of model evaluation wells. If the CADD/CAP is not approved, it will be amended and resubmitted to NDEP.

The installation of the model evaluation wells and completion of the associated studies lead to the sixth decision point of the UGTA strategy (Figure 3-2). Data gathered from wells and focused testing and sampling will be used to build confidence in model results to answer the following question: Is there sufficient confidence in the CAU modeling to proceed to CAU closure? If the answer is no, model evaluation studies will continue including assessment of new data from the evaluation wells with model refinements and assessment of revised model results, if required. If new information requires changes in the model evaluation program, these changes will be incorporated into a CADD/CAP addendum and submitted for review and approval to NDEP. Model evaluation will continue at existing and/or new wells with the purpose of

gathering data to increase confidence in the reliability of model results. This iterative process of model evaluations and refinements will continue until model acceptance by NDEP at the end of the CADD/CAP stage (Figure 3-2). After acceptance, the project will progress to the closure stage of the UGTA strategy.

The first step of the closure stage will be a decision by NDEP and NNSA/NFO whether revised contaminant boundary forecasts are required based on the model evaluation studies during the CADD/CAP stage. Using the existing or revised contaminant boundaries, NNSA/NFO and NDEP will negotiate and establish ***use restriction boundaries*** for each CAU and/or subsets of CASs. Additionally, NDEP and NNSA/NFO will negotiate and establish a ***regulatory boundary*** for each CAU.

After ***the use restriction*** and ***regulatory boundaries*** are negotiated and established, the CR will be prepared. It will describe development of a long-term closure monitoring program, the approaches and policies for institutional controls, and a design plan for transition of the UGTA activity to long-term stewardship. The CR will be reviewed through comment resolution by NDEP and NNSA/NFO. If the CR is approved at the eighth decision point of the UGTA strategy, the long-term closure monitoring program will be implemented. If the CR is not approved, it will be revised and resubmitted to NDEP until agreement is obtained. After the long-term closure monitoring program has been implemented, the program may transition to another federal entity or entities responsible for long-term stewardship. This transition will be a joint NNSA/NFO and NDEP decision.

The ninth and final decision point on Figure 3-2 is a recurring periodic evaluation of the long-term closure monitoring program under long-term stewardship, a joint evaluation conducted by NDEP and the long-term stewardship entity. The results of long-term closure monitoring will be evaluated for consistency with the CAU conceptual models of flow and transport, the forecasts of contaminant boundaries, and adherence to the ***use restriction*** and the ***regulatory boundaries***.

They will additionally assess consistency with the corrective action decision, and ensure institutional controls are fully protective of human health and the environment. If the corrective action decision remains consistent with monitoring results, the organization responsible for long-

term stewardship will evaluate monitoring results for data changes, assess whether new information requires refinements in CAU modeling studies, evaluate requirements for new and/or replacement monitoring wells, and continue the monitoring program. If the monitoring results invalidate the corrective action decision, NDEP and the long-term stewardship organization will evaluate whether it is technically feasible to reassess modeling studies and the closure monitoring program while remaining consistent with the corrective action design. If the answer is yes, proposed changes in the monitoring program will be negotiated with NDEP. If NDEP approves the changes, the monitoring program will continue subject to continued periodic evaluations. If the answer is no, the monitoring program will be suspended and a new strategy evaluated (Figure 3-2).

3.3.1 Dictionary of Steps in UGTA Stages, Review and Approval, and Decision Points

Work elements required to conduct the UGTA stages of the corrective action strategy for each of the UGTA CAUs are identified in Figure 3-2 and are briefly described below. These descriptions form the basis for establishing milestones for these CAUs. If activities other than those described herein are determined to be necessary to achieve closure of the CAUs, the milestones will be reevaluated in accordance with negotiated terms and conditions established by NNSA/NFO and NDEP.

The following dictionary (Table 3-1) defines the steps within each of the four UGTA strategy stages, the review and approval requirements for each step, and the nine decision points of the UGTA Strategy Diagram for UGTA CAUs (Figure 3-2). The dictionary is presented in tabular form and identifies and describes each of the stages that implement the strategy. The table presents the strategy stage of each step, a descriptor of each step, and a definition of each strategy step.

Table 3-1
Process Flow Diagram Dictionary for the UGTA CAUs

Strategy Stage	Step Descriptor	Definition of the Strategy Step
VOIA	**Value of Information Analysis**	Before developing and preparing the CAIP for each CAU, NNSA/NFO will conduct a VOIA to help prioritize data collection activities. The VOIA will develop cost-benefit metrics for evaluating site characterization activities regarding contaminant boundary forecasts and parametric uncertainty. The results of the VOIA will be used to plan CAIP development. NDEP will review and provide comments on the VOIA.
CAIP	**Prepare/Addend CAIP**	NNSA/NFO will develop and prepare the CAIP. The CAIP will be structured as mutually agreed to by NNSA/NFO and NDEP before document preparation. While developing and preparing the CAIP, NNSA/NFO will keep NDEP informed and updated in order to expedite NDEP's review and approval. Each strategy step described in the following steps of Table 3-1 Pr that requires reports submitted to and reviewed by NDEP assumes the reports will be structured and expedited by NNSA/NFO and NDEP. NDEP will review versions of the CAIP and identify any deficiencies. NNSA/NFO will resolve deficiencies through a comment/response process.
	Decision Point: NDEP Approval of the CAIP	NDEP approval of the CAIP is required before any CAI-related activities are initiated. If the CAIP is not approved, NNSA/NFO will revise the document to resolve NDEP concerns and initiate a revised cycle of document revisions for submittal to NDEP for further assessment and/or approval.
CAI	**Collect New Data**	NNSA/NFO will collect new data to address deficiencies in existing data and attempt to reduce model uncertainty. The data collection activities will be described in the CAIP or an addendum to the CAIP.
	Evaluate Existing/New Data	NDEP will evaluate the new and existing data provided through program briefings, data documents, and reports. They will provide written comments to NNSA/NFO for comment resolution.

Table 3-1
Process Flow Diagram Dictionary for the UGTA CAUs

Strategy Stage	Step Descriptor	Definition of the Strategy Step
CAI (continued)	**Data Completeness**	NDEP will review CAU data for completeness before CAU flow and transport modeling begins. The NDEP review will focus on high-level perspectives of whether there are significant data gaps before the start of flow and transport modeling. This review recognizes that the results of the flow and transport modeling work will provide the primary basis for assessing data adequacy in a subsequent step of the UGTA strategy. If there are significant data gaps, NNSA/NFO will conduct a data assessment. If there are no significant data gaps identified by NDEP, the flow and transport modeling studies will begin.
	Data Assessment	NNSA/NFO will review data gaps identified by NDEP and assess whether these gaps can be resolved through focused data collection. If NNSA/NFO concludes additional data collection is cost effective and can potentially resolve data gaps, they will develop plans for collecting data and start collecting new data. Data collection plans will be developed by NNSA/NFO and negotiated through a memorandum of agreement by NNSA/NFO and NDEP. If the data gaps require modeling studies to assess their impacts, modeling studies will be initiated and follow the standard CAI steps. NNSA/NFO will emphasize required work in the modeling studies to resolve the identified data gaps. Modeling plans will be developed by NNSA/NFO and negotiated through a memorandum of agreement by NNSA/NFO and NDEP.
	Develop CAU Flow and Transport Model	NNSA/NFO will develop flow and transport models for each CAU that incorporate the eight major topics described in Section 3.2.1 of Appendix VI. NNSA/NFO will provide periodic briefings to NDEP as work progresses. The flow and transport results may be written as two reports or incorporated into a single report. NDEP will review and provide written comments on the modeling report(s), and NNSA/NFO will provide responses to resolve the comments.
	Decision Point: Are the Model Results and Data Adequate?	The model results and data will be evaluated jointly by NDEP and NNSA/NFO to assess whether there is sufficient confidence in the model results to proceed with the UGTA corrective action strategy. If both NNSA/NFO and NDEP agree that the model results and data are **adequate**, the answer to this question is yes. If either party determines that the model results and/or data are **not adequate**, the answer is no.

Table 3-1
Process Flow Diagram Dictionary for the UGTA CAUs

Strategy Stage	Step Descriptor	Definition of the Strategy Step
CAI (continued)	**Evaluate Model and Data Needs**	If the model results and data from the flow and transport studies are **inadequate**, NNSA/NFO will evaluate deficiencies, and identify model and data needs using the results of the modeling studies and sensitivity and uncertainty analysis to guide the evaluations. NNSA/NFO will provide written documentation to NDEP of the identified needs and the likelihood of successfully obtaining adequate model results and data.
	Decision Point: Is the Strategy Achievable?	The model results and the evaluation of model and data needs will be used to assess whether the UGTA strategy is achievable. This is a joint decision by NDEP and NNSA/NFO, and both parties must agree.
	Propose New Strategy	If the strategy is **not achievable**, NNSA/NFO and NDEP will negotiate development of a new strategy to replace the corrective action strategy described Section 3.0 of Appendix VI. This negotiation is outside the currently defined UGTA strategy, and the steps for developing and implementing a new strategy are not described.
	Develop CAIP Addendum	If there is agreement that the model results and data are **inadequate** but the strategy is **achievable**, NNSA/NFO will develop and prepare an addendum to the CAIP. The addendum will address the identified needs using the current model results, how these needs are translated to requirements, and what additional work activities will be conducted to address and/or satisfy these requirements. The CAIP addendum will be reviewed and approved by NDEP.
	NDEP CAIP Addendum Approval	NDEP reviews the CAIP addendum and provides written comments. NNSA/NFO will provide written responses to the comments for resolution. NDEP approval of the CAIP addendum is required before initiating or continuing CAI activities.

Table 3-1
Process Flow Diagram Dictionary for the UGTA CAUs

Strategy Stage	Step Descriptor	Definition of the Strategy Step
CAI (continued)	**Peer Review**	If the model results and data from the flow and transport studies are adequate, an external peer review of the model results and data will be conducted. The results of the peer review will be documented in a formal report.
	Decision Point: Is the CAU Model Acceptable for CADD/CAP Studies?	After the peer review is completed, NDEP will determine whether the model is acceptable for completing the CAI stage of studies and initiating the CADD/CAP stage. This decision is a regulatory assessment whether there is sufficient confidence in the model forecasts of the contaminant boundaries to initiate model evaluations.
	Progress to the CADD/CAP Stage of the UGTA Strategy	If the model is accepted by NDEP, the UGTA studies will progress to the CADD/CAP stage of the UGTA strategy.
	Return to the Decision Point: Is the Strategy Achievable?	If NDEP does not accept the CAU model, the program returns to the above described step descriptor of evaluating model results and data needs before initiating a joint assessment by NDEP and NNSA/NFO whether the UGTA strategy is achievable.
CADD/CAP	**Negotiate and Identify CAU Regulatory Boundary Objectives**	NDEP and NNSA/NFO will negotiate and identify specific ***CAU regulatory boundary objectives*** at the start of the CADD/CAP activities. ***The CAU regulatory boundary objectives*** are statements of specific objectives for each CAU to protect the public and environment from exposure to groundwater contaminated by underground testing of nuclear weapons on the NNSS.
	Negotiate and Identify Initial Use Restriction Boundaries	The initial ***use restriction boundaries*** will be proposed by NNSA/NFO and requires NDEP concurrence. They will be based on a combination of assessments of contaminant boundary forecasts, requirements for protection of worker health and safety, and required administrative polices designed to restrict access to potentially contaminated groundwater.

Table 3-1
Process Flow Diagram Dictionary for the UGTA CAUs

Strategy Stage	Step Descriptor	Definition of the Strategy Step
CADD/CAP (continued)	**Prepare/Addend CADD/CAP**	The scope of the CADD/CAP is to document the results of the CAI stage, document the ***use restriction boundaries***, identify the ***regulatory boundary objectives***, and develop the CAP. Results of the CAI are summarized in the CADD/CAP, which identifies recommended CAAs for the CAU and includes the ***model evaluation plan***.
	Decision Point: NDEP Approval of the CADD/CAP	NDEP reviews the CADD/CAP document and provides written comments. NNSA/NFO will provide written responses to NDEP comments for resolution. NDEP approval of the CADD/CAP is required before data collection starts. If the CADD/CAP is not approved, NNSA/NFO will revise the document to resolve NDEP concerns and initiate a new cycle of document revisions for further assessment and/or approval.
	Start or Continue Data Collection	The focus of the CADD/CAP stage will be on drill-hole explorations and data collection designed to increase confidence in the model results.
	Model Evaluation and/or Refinements	Model evaluations and/or refinements will be conducted to assess the impact of new information from the exploratory drilling and data collection on the model results.

Table 3-1
Process Flow Diagram Dictionary for the UGTA CAUs

Strategy Stage	Step Descriptor	Definition of the Strategy Step
CADD/CAP (continued)	**Decision Point: Is the CAU Model Acceptable for Closure?**	The initiation of model evaluation starts an iterative stage of assessing confidence in the CAU model for progressing to the CR stage of the UGTA strategy. This decision recognizes that the justification for CAU closure will be based on integration of modeling studies, monitoring design, and institutional controls to restrict public access to groundwater. The model evaluation process of the CADD/CAP is a confidence-building iterative loop consisting of location and development of model-evaluation wells, collection and evaluation of new data, evaluation of the impact of new data on model forecasts and assessment of the acceptability of the model forecasts, and model results for progressing to CAU closure. If the model evaluation results are not acceptable to NDEP, NNSA/NFO will evaluate and refine the CAU model, identify locations and objectives of additional model evaluation wells and data collection activities to attempt to increase confidence in the model results, amend the CADD/CAP (if required), and submit the CAIP addendum to NDEP for review and approval.
	Progress to the CR Stage of the UGTA Strategy	If the CAU model and model-evaluation results are accepted by NDEP, the UGTA studies will progress to the CR stage of the UGTA strategy.
CR	**Decision Point: Are Revised Contaminant Boundaries Required?**	The first step of the closure stage is a joint decision by NDEP and NNSA/NFO whether revised contaminant boundaries are required before negotiating and establishing ***use restriction*** and ***regulatory boundaries***. If revised contaminant boundaries are required, the new boundaries will be established using the accepted model or models from the CADD/CAP stage.
	Negotiate and Establish Use Restriction and Regulatory Boundaries	NDEP and NNSA/NFO will negotiate and establish the ***use restriction*** and r***egulatory boundaries*** before developing the CR.

Table 3-1
Process Flow Diagram Dictionary for the UGTA CAUs

Strategy Stage	Step Descriptor	Definition of the Strategy Step
CR (continued)	**Prepare/Addend CR**	The CR will describe the closure approach for each CAU, establish the long-term closure monitoring objectives and requirements, identify and describe options for maintaining institutional controls, and describe the required actions for transfer of program responsibilities from the NNSA/NFO UGTA activity to long-term stewardship.
	Decision Point: NDEP Approval of CR	NDEP must approve the CR before starting a long-term closure monitoring program. If the CR is not approved, NNSA/NFO will revise the document to resolve NDEP concerns and will initiate a revised cycle of document revisions for submittal to NDEP for further assessment and/or approval.
	Implement Long-Term Closure Monitoring	NNSA/NFO develops the closure monitoring objectives and the monitoring design, and develops the monitoring wells that initiate the long-term closure monitoring program as specified in the CR. NNSA/NFO and NDEP will review the monitoring design and initial monitoring results to establish the basis and timing of transition to long-term stewardship.
	Transition to Long-Term Stewardship	The transition to long-term stewardship concludes the UGTA activityt responsibilities for individual CAUs.
	Continue Monitoring Program	The long-term closure monitoring program will continue for a duration negotiated between NDEP and the organization responsible for long-term stewardship.
	Periodic Evaluations	Long-term stewardship will conduct periodic reviews of the results of the long-term closure monitoring program; the interval for the periodic evaluations will be negotiated between NDEP and the long-term stewardship organization. The periodic evaluations will review the results of the monitoring for consistency with CAU model forecasts of contaminant boundaries and the negotiated ***regulatory*** and ***use restriction boundaries***. These periodic evaluations will additionally assess the suitability of the monitoring results with respect to the corrective action decision. The long-term stewardship organization will assess whether model refinements are

Table 3-1
Process Flow Diagram Dictionary for the UGTA CAUs

Strategy Stage	Step Descriptor	Definition of the Strategy Step
CR (continued)		needed and whether any changes in the monitoring program are required. They will submit a written report on the results of monitoring activities and required changes in model and monitoring studies for review by NDEP. NDEP will review and provide written comments on the report. The long-term stewardship organization will provide responses to resolve the NDEP comments.
	Decision Point: Is the Corrective Action Decision Working?	The long-term stewardship organization and NDEP will, after each periodic evaluation, assess whether the corrective action decision specified in the CR continues to be adequate for protecting the health and safety of the public.
	Feasibility of Model Refinements/Monitoring Changes	If the corrective action decision is not supported by monitoring data, the long-term stewardship organization will assess whether it is technically feasible to modify the CAU model and/or monitoring programs and remain consistent with the corrective action decision. If changes are technically feasible, the long-term stewardship organization will document required model and monitoring changes and will obtain NDEP approval to continue monitoring. If modeling and monitoring changes cannot be made, the long-term stewardship organization will suspend monitoring and propose a new strategy.
	Propose New Strategy	If the corrective action decision is not working, NDEP and the long-term stewardship organization will negotiate a new strategy following the steps shown Figure 3-2. This negotiation is outside the UGTA strategy of **Error! Reference source not found.** of Appendix VI, and the steps for developing and implementing a new strategy are not described.

3.4 References

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DOE, see U.S. Department of Energy.

DOE/NV, see U.S. Department of Energy, Nevada Operations Office.

EPA, see U.S. Environmental Protection Agency.

NRC, see National Research Council.

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4.0 Soils Sites

Soils Sites CASs consist of surface and shallow subsurface soil contamination resulting from various types of nuclear experiments or testing; these sites are situated throughout the NNSS, NTTR, and TTR. Testing types include atmospheric tests (including airburst, air drop, balloon, rocket, surface, and tower tests), shaft tests, safety experiments and storage transportation tests, cratering and plowshare tests, and hydronuclear tests.

4.1 Corrective Action Units

The Soils sites CASs are grouped into CAUs based the following factors: (1) geographic location, (2) type of contamination, and (3) investigative strategy in order to facilitate closure. The CASs may be grouped based on geographical area, particularly when the radiological plumes overlap or when the sites are sufficiently close that it is more efficient to investigate the sites together. In the absence of overlapping plumes, the type of contamination is another critical factor due to the different investigative process for plutonium contamination (i.e., safety or transportation experiment) as opposed to fission products (i.e., atmospheric test). The CAUs will be prioritized based on technical complexity, U.S. Air Force agreements, and risk (e.g., land use and proximity to receptors). A preliminary characterization of each site will be performed based on existing data. These data will be used to guide appropriate investigation and corrective action tasks, as well as to select a corrective action process.

4.2 Corrective Action Strategy

The DQOs will be established by the parties with NDEP participation to assist in the development of work scope. Stakeholder input may be required depending on the nature of the work scope.

The overall corrective action process has been subdivided into two process flow paths: (1) the SAFER process, and (2) the complex process. If sufficient information exists about the nature and extent of contamination at a particular CAU to plan and implement the corrective actions before the investigation is completed, the SAFER process may be selected. If existing knowledge is inadequate to plan and implement the corrective actions before the site investigation is

completed, the complex process will be used. Figure 4-1 presents the corrective action approach for Soils sites CAUs.

The preparation of each document specified herein will be specific to the chosen corrective action process and conform to the approved FFACO outline. Each document will be approved by NDEP before proceeding to subsequent phases of the corrective action process.

4.2.1 SAFER Process

Under the SAFER process, each CAU will have a SAFER Plan that outlines the plan for collecting information and implementing corrective actions. It also presents the data quality requirements established in the DQOs. The document may include contingency plans if site conditions are other than expected. If specific conditions or findings fall outside the bounds of the SAFER Plan, the CAS will be transferred to another CAU and the complex process used. At CAUs to which the SAFER process applies, investigation will be necessary to document and verify the adequacy of existing information, to affirm the selected corrective action, and to provide sufficient data to implement the corrective action. Corrective action activities may progress during the CAI.

After site information is collected and evaluated, and the corrective actions are implemented, a final closure of the CAU will be recommended in a CR. The CR will justify the quality of information and decisions used to select the corrective actions, and will verify that implemented corrective actions were completed and effective. After the CR is approved, NDEP will issue a notice of completion, and the CAU will be moved to Appendix IV (Closed Corrective Action Units).

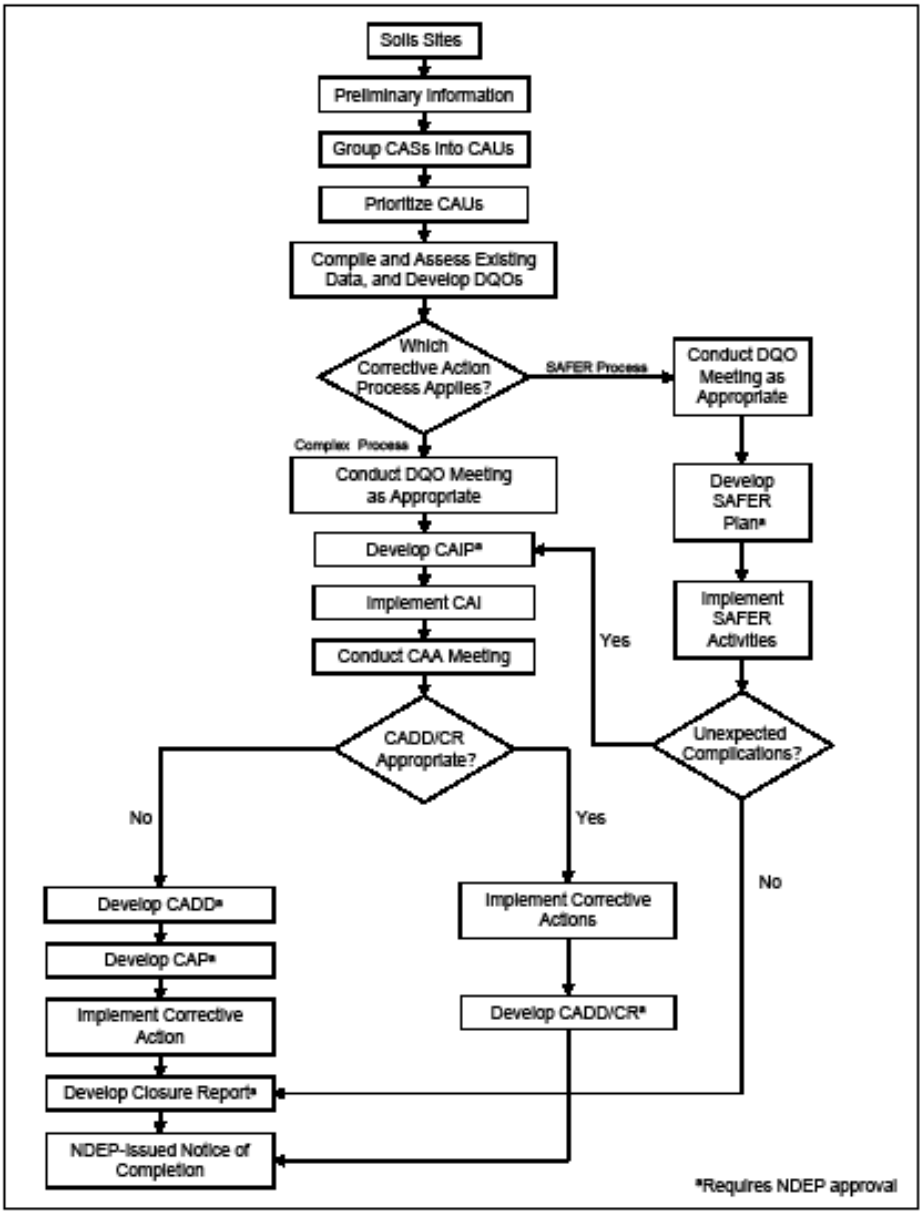

Figure 4-1
Soils Sites Corrective Action Process

4.2.2 Complex Process

Under the complex process, each CAU will have a CAIP that outlines the plan for collecting information during a site investigation that satisfies data quality requirements established in the DQOs. After site information is collected and evaluated, CAAs will be evaluated and discussed in a meeting with NDEP. The CADD will justify the quality of information and decisions used to select the corrective actions, and will present a recommended CAA for NDEP approval. The development of the CAP and the implementation of the corrective action will begin after NDEP approval of the CADD. The plan for implementing the corrective actions will be presented in the CAP. The final closure of the CAU will be recommended in a CR. The CR will verify that implemented corrective actions were completed and effective. After approval of the CR, NDEP will issue a notice of completion, and the CAU will be moved to Appendix IV (Closed Corrective Action Units).

If corrective actions for all CASs in a CAU can be determined and implemented before the investigation is completed and NDEP approval is obtained, the complex process may be completed by proposing closure of the CAU. This variation to the complex process would terminate in the preparation and approval of a CADD/CR. The CADD/CR will include all of the pertinent information contained in the CADD and CR documents. After approval of the CADD/CR, NDEP will issue a notice of completion, and the CAU will be moved to Appendix IV (Closed Corrective Action Units).

4.3 Implementing Corrective Actions

Corrective actions at Soils sites CAUs will range from no further action (at sites where contamination is below action levels) to closure in place and/or clean closure (at sites where further action is necessary due to the presence of contamination exceeding action levels). Action levels will be based on risk to the most exposed receptor using factors including but not limited to the physical configuration of the contamination, exposure pathway, and exposure time (i.e., exposure scenario). Exposure scenarios will be based on current and projected future land use. Should an activity be introduced at any closed Soils site that changes the land use, the new activity will comply with federally mandated NEPA requirements as well as DOE siting and

authorization processes. Both the NEPA and DOE processes require an evaluation of site conditions (e.g., contamination) along with the potential effects to workers and the public.

When sufficient information is available, site-specific CAAs will be evaluated and recommended based on screening thresholds and evaluation criteria. These CAAs will be presented at CAA meetings and include such considerations as potential receptors, future land use, need for stabilization, and monitoring needs.

5.0 Offsites

In August 2006, the FFACO was modified, transferring Offsites Project responsibility from DOE/Environmental Management (EM) to DOE/LM. According to the FFACO modification, DOE/LM assumed responsibility for the Offsites Project effective October 1, 2006. The DOE/LM responsibilities for the Offsites include implementing corrective actions, subject to approval from NDEP, to ensure the continued protection of human health and the environment. The strategy for implementing corrective actions at the Offsites is based on three assumptions: (1) technologies for removing or stabilizing subsurface radiological contamination are not cost effective; (2) closure in place, combined with monitoring and institutional controls, is the only cost-effective corrective action; and (3) radiologically contaminated groundwater affects workers and the public only through direct exposure to the groundwater.

5.1 Corrective Action Units

The CNTA and PSA were each the site of one underground nuclear detonation, and each site is a separate Offsites project. The CNTA and PSA sites have the following CASs and CAUs:

- CNTA
  - Surface CAU 417: comprises 34 surface or shallow subsurface CASs.
  - Subsurface CAU 443: comprises three CASs that include the emplacement boreholes UC-1, UC-3, and UC-4 (only UC-1 was actually used for a nuclear test).
- PSA
  - Surface CAU 416: comprises three surface or shallow subsurface CASs.
  - Subsurface CAU 447: comprises two CASs that include the test cavity and the emplacement shaft.

5.2 Corrective Action Strategy

The corrective action strategy for the surface CAUs at the CNTA and PSA followed the Industrial Sites corrective action process. The corrective action processes for each CAU were executed through the CR phase and received notices of completion from NDEP.

The corrective action strategy for the subsurface CAUs at the CNTA and PSA sites followed the original UGTA corrective action strategy (FFACO, December 2000), with modifications to accommodate site conditions. The approach included developing a conceptual site model (CSM), calculating contaminant boundaries, negotiating compliance boundaries with NDEP, performing model validation, and conducting groundwater monitoring. However, the model validation process at each Offsites location failed to predict observed heads at the validation points, and this led to a revised corrective action strategy designed to validate the compliance boundary through monitoring and institutional controls, rather than relying predominantly on the flow modeling.

The revised corrective action/closure strategy focuses on collecting data to reevaluate the CSM and the current monitoring network, and enhance the monitoring network if necessary. The adequacies of the compliance boundaries are evaluated using data from a network of wells that monitor radionuclides along interpreted contaminant transport pathways, as demonstrated by measured water levels.

Unrestricted public access to the Offsites increases the importance of having institutional controls around areas of potential contamination. For these reasons, the Offsites compliance strategy relies on developing a negotiated compliance boundary, which envelops a modeled contaminant boundary and in which both boundaries are on DOE-withdrawn land. Public access to groundwater within the DOE withdrawn land is controlled through restrictions applied to drilling and to the use of groundwater.

Confidence in the monitoring system and the institutional controls will improve as long-term monitoring continues. Monitoring the subsurface environment will produce groundwater chemistry, hydraulic-head, and time-series data to assess site conditions. If the monitoring results change unexpectedly, DOE/LM will notify NDEP and propose additional actions, if necessary.

The revised strategy for CNTA was presented in an addendum to the CADD/CAP for CAU 443. The revised strategy for PSA will be negotiated with NDEP and will be included in an addendum to the CADD/CAP for CAU 447.

Steps 1, 2, and 3 below are the original strategy steps that were taken at CNTA and PSA. Steps 4, 5, and 6 below summarize the revised corrective action/closure strategy.

1. Develop a CSM for each site.
2. Construct a numerical flow and transport model.
3. Establish a contaminant boundary, and locate monitoring and validation wells based on numerical model results.
4. Evaluate the CSMs and monitoring networks using data from new wells.
5. If CSMs and monitoring networks are sufficient, then monitor for 5 years to confirm.
6. If CSMs and monitoring networks are insufficient, then collect more data to refine CSMs and enhance the monitoring networks, as necessary.
7. Monitor for 5 consecutive years to confirm that the interpreted potential transport pathways are adequately monitored.
    a. If monitoring is adequate, prepare a CR with a long-term monitoring plan and institutional controls.
    b. If monitoring is not adequate, collect more data to refine the CSM and enhance the monitoring network, as necessary.
8. Begin long-term post-closure monitoring.

5.3 Implementing CAIs and Corrective Actions

Surface and shallow subsurface CASs at the CNTA and PSA were completed according to the corrective action processes described in Section 2.3 of this appendix.

In 2009, DOE/LM began step 5 of the revised corrective action/closure process for the subsurface at CNTA. The new strategy at CNTA will validate and/or evaluate the compliance boundary using an enhanced monitoring network with a 5-year proof-of-concept monitoring period. Data from the new monitoring network will be evaluated over the 5-year period to ensure that the groundwater system is stable and that concentrations of radionuclides of interest either do not exceed the SDWA standards or are at or below local background concentrations (special conditions may be addressed by an agreement between NDEP and DOE/LM). The consistency of

the interpreted flow directions in each hydrogeologic unit will be assessed yearly during the monitoring period.

Effectiveness of the monitoring system will be evaluated with respect to monitoring well locations within the flow field of each hydrogeologic unit at the site. Temporal changes will be evaluated in light of a conceptual model that considers transient shot effects and the faults acting as groundwater flow barriers. The continued slow dissipation of hydraulic heads at the test horizon may support preliminary indications concerning permeability of the material enclosing the detonation and interpreted transport velocity. Additionally, the alluvium will be monitored to evaluate upward transport from the detonation level. Based on step 5 (a), a CR will be prepared at the end of the 5-year monitoring period, if the monitoring data are sufficient, to formalize the long-term monitoring plan and institutional controls that will be in place for the post-closure period of 1,000 years. The NDEP approval of the CR will signify the transition to post-closure monitoring.

As of the date of this revision, DOE/LM is in step 4(b) of the revised corrective action/closure process for the subsurface at the PSA site. This includes the collection of additional data and development of a revised corrective action/closure strategy. The revised strategy for the subsurface at the PSA site will be negotiated with NDEP and included in an addendum to the CADD/CAP when development is complete.

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Corrective Action Units

Revision No.: 34

July 2013

Federal Facility Agreement
and Consent Order
(FFACO)

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