~~CONFIDENTIAL~~ UNCLASSIFIED

# ENGINEERING INSTRUCTION

Originator/Date: L. R. Hoschek
L. R. Hoschek

E.I. NO.:
DOCUMENT DATE: 05-25-89
DISTRIBUTION DATE:

Quality/Date: _____

Safety Approval/Date: _____

Redacted VERSION

Specification/Procedure Change Authorization:

DOE QAB/PAS Coordinator: (X) Not Required

SUBJECT: _____

This E.I. is written to detail the radiation safety and disassembly requirements that are necessary to remove the subject nuclear explosive from the stand and disassemble the _____ The procedures have been coordinated with and concurred in by M&H Radiation Safety and Nuclear Explosive Safety, DOE/AAO, the DOE/AL Accident Investigation Committee, and Los Alamos National Laboratory Engineering.

(Optional depending upon concentration levels) The disassembly of this nuclear explosive will be videotaped by M&H, E&TC photographers. Videotaping equipment will be approved by Safe Work Permit before start of operations.

The subject unit is an HE/Pit Assembly only and is currently in the stand _____ The [ ]reservoir/valve assembly has been removed.

The following procedures will be performed by Mason & Hanger trained and certified personnel that are in the DOE/PAP program. LANL personnel will be present as advisors and consultants.



D. W. Dollar, Assy. Oper., 12-86
J. L. Farmer, Prod. Sched., 12-69
S. L. LeCrone, MRP, 12-97C
DOE-AAO, 12-36
DOE/QMB-LANL, 12-69
B. D. Collier, SFC, 12-61

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DERIVATIVE CLASSIFIER L. R. Hoschek (LANL)
(TITLE)

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RADIATION SAFETY REQUIREMENTS

Prior to start of disassembly operations in Cell 12-44-1 on the subject nuclear explosive, personnel shall be suited out in protective clothing as directed by Radiation Safety. Any additional radiation safety directives shall be documented as they are given.

A. The following procedures shall be utilized to support operational personnel who will disassemble the nuclear explosive and remove components in Cell 12-44-1.

B. The Radiation Safety and Operational personnel will wear self-contained breathing apparatus, anti-contamination clothing, boots and gloves. (Four pairs of gloves will be worn. Buttyl gloves with three pairs of PVC gloves over them.) Radiation Safety personnel will remind operating personnel of glove removal intervals.

C. All individuals who are involved with the Cell 12-44-1 access shall provide urine samples before entry and after exiting the contaminated area.

D. Equipment needed at the site includes; breathing air bottles, large plastic bags, wipe-test supplies, tape, large rolled plastic, radioactive wash, kimwipe towels or large paper towels, pencils, paper and two (2) Triton survey meters.

E. All Operational and Radiation Safety personnel will enter and exit Cell 12-44-1 through Bldg. 12-42. A "Hot Line" will be established prior to entry into Cell 12-44-1. Radiation Safety personnel will maintain a support station outside Cell 12-44-1.

NUCLEAR EXPLOSIVE SAFETY REQUIREMENTS

All operations identified with an 'M' in the margin beside the operational step number will be performed by two M&H personnel that are in the DOE/Personnel Assurance Program (PAP). Any deviation from approved written procedures that affect nuclear explosive safety will be approved in M&H and AAO by Nuclear Explosive Safety personnel prior to the deviation.

M 1.

M 1.1

M 1.2

M 1.3 If necessary, pry the flat cable from the slot using a tongue depressor or orange stick. Carefully lift the flat cable from its slot. Do not permit any sharp bends in the flat cable when separating if from the adhesive.

M 1.4 Manually or using Vacuum Puller (000-2-197), remove the detonator from the counterbore.

M 1.5 Remove Connector Cover from the detonator/cable assembly.

M 2. Package the detonator/cable assemblies per at any convenient time.

M 3. Install the

3.1 If not previously accomplished, install Adapter on the Assembly Press.

3.2 Install Bowl Adapter over the Adapter on the Assembly Press.

M 3.3 Ensure safety nets are installed around the bottom and top of the assembly and secured

M 3.4 Attach the 24-inch Strongback (000-2-221 or 000-2-123)

M 3.5 Using hoist and Strongback (000-2-221 or 000-2-123), carefully place the in Assembly Press with Adapter

M 3.6 Remove the hoist and Strongback (000-2-221 or 000-2-123)

M 3.7 Remove the quick release pins from the bottom safety net.

M 3.8 Remove the from the

M 4. Place the top press adapter (with Adapter attached) on the contour of the upper half of the

M 4.1 Attach the three arms of the pressure fixture and close the needle valve on the hydraulic pump.

M 4.2 Actuate the hydraulic pump and carefully regulate the pressure on each side of the three gages, using their respective valves. The maximum pressure to be applied is 375 psi. Do not exceed this pressure on any gage.

M 5. Remove four capscrews and allen nuts securing clamp band.

M 6. Remove clamp band

M 7. Release the pressure on the release the three arms and remove the top pressure adapter

M 8. By hand, carefully lift the upper half and position it on chock or Assembly Chock

M 8.1

M 8.2

M 8.3 Attach the to the Manually lift the rotate it 180 degrees, and lower it back onto the chock.

M 8.4 Remove the Handling Band carefully lift the upper half. and manually, place it on Chock or Assembly Chock

M 9. Remove the stress cushion .

10. Using the Vacuum Lifting Fixture , remove the and place it on a Rolling Chock (000-2-271).

11. Remove the fixture.

12. Remove the remaining stress cushion .

13. Dry swipe the surface of the for Alpha and Tritium contamination.

14. Package the pit in container ALR8(2030) and hold in cell until de-contamination instructions are issued.

15. Dispose of all other parts per E.I.

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# ENGINEERING INSTRUCTION

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Specification/Procedure Change Authorization:

DOE QAB/PAS Coordinator: (X) Not Required

SUBJECT: [redacted]

This E.I. is written to detail the radiation safety and disassembly requirements that are necessary to disassemble the subject nuclear explosive. The procedures have been coordinated with and concurred in by M&H Radiation Safety and Nuclear Explosive Safety, DOE/AAO, the DOE/AL Accident Investigation Committee, and Los Alamos National Laboratory Engineering.

(Optional depending upon concentration levels) The disassembly of this nuclear explosive will be videotaped by M&H, E&TC photographers. Videotaping equipment will be approved by Safe Work Permit before start of operations.

The subject unit is in Assembly Cell 12-44-1 and is currently in Disassembly Stand [redacted]. The [redacted] reservoir/valve assembly has been removed.

The following procedures will be performed by Mason & Hanger trained and certified personnel that are in the DOE/PAP program. LANL personnel will be present as advisors and consultants.



D. W. Dollar, Assy. Oper., 12-86
J. L. Farmer, Prod. Sched., 12-69
S. L. LeCrone, MRP, 12-97C
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~~CONFIDENTIAL~~

DERIVATIVE CLASSIFIER L. R. Hoschek (NAME)
Engineer (TITLE)

RADIATION SAFETY REQUIREMENTS

Prior to start of disassembly operations in Cell 12-44-1 on the subject nuclear explosive, personnel shall be suited out in protective clothing as directed by Radiation Safety. Any additional radiation safety directives shall be documented as they are given.

A. The following procedures shall be utilized to support operational personnel who will disassemble the nuclear explosive and remove components in Cell 12-44-1.

B. The Radiation Safety and Operational personnel will wear self-contained breathing apparatus, anti-contamination clothing, boots and gloves. (Four pairs of gloves will be worn. Buttyl gloves with three pairs of PVC gloves over them.) Radiation Safety personnel will remind operating personnel of glove removal intervals.

C. All individuals who are involved with the Cell 12-44-1 access shall provide urine samples before entry and after exiting the contaminated area.

D. Equipment needed at the site includes; breathing air bottles, large plastic bags, wipe-test supplies, tape, large rolled plastic, radioactive wash, kimwipe towels or large paper towels, pencils, paper and two (2) Triton survey meters.

E. All Operational and Radiation Safety personnel will enter and exit Cell 12-44-1 through Bldg. 12-42. A "Hot Line" will be established prior to entry into Cell 12-44-1. Radiation Safety personnel will maintain a support station outside Cell 12-44-1.

NUCLEAR EXPLOSIVE SAFETY REQUIREMENTS

All operations identified with an 'M' in the margin beside the operational step number will be performed by two M&H personnel that are in the DOE/Personnel Assurance Program (PAP). Any deviation from approved written procedures that affect nuclear explosive safety will be approved in M&H and AAO by Nuclear Explosive Safety personnel prior to the deviation.

M 1.

M 2.

///NOTES. 1. Two people shall install the on the warhead case.

2. Tighten the securely.

### CAUTION: Ensure the is installed flush with the upper edge of the painted portion of the case in three locations (120 degrees apart).

M 14. Lower the bottom ram of the press and lower the away from the case.

M 15. Attach the HE Rotating Band to the

M 16. Raise the rear cap up approximately 8 inches and remove. Raise the until the Assembly Press Dolly will roll under the HE Rotating Band

16.1 Lower assembly onto Assembly Press Dolly to allow installation of safety nets.

16.2 Install HE safety nets around the bottom of the assembly.

16.3 Using quick release pins, secure nets to the HE

M 17. Roll the away from the ram of the press.

M 18. Remove the fwd and aft compression caps

M 19. Using Strongback (000-2-221 or 000-2-123) and hoist, lift the assembly, move it aside, rotate 90 degrees with the tube up, and set it in Stand Remove the Strongback and hoist.

20. Remove the tapered ring, retainer ring, and case parts from the Assembly Press at any convenient time prior to disassembly of the next nuclear explosive.

20.1 Remove the O-ring from the front cap

20.2 Remove the aft cap from the Assembly Press by removing the two screws and releasing the vacuum.

20.3 Raise the lower ram and front cap into the case.

20.4 Install two screws (836720), approximately 180 degrees to hold the front cap in the case. Ensure that the two screws are hand tight.

20.5 Release the pressure sufficiently to remove the Taper Ring from between the bottom of the case and press.

20.6 Raise the lower ram sufficiently, approximately 600 psi, to remove the Forward Retaining Ring from the bottom of the case.

20.7 Remove the Thin Taper Ring from between the top of the case and the barrel of the press.

20.8 Raise the case in the press enough to dislodge the Forward Retaining Ring and lower the ram and case.

20.9 Remove the case from the Assembly Press by hand.

20.10 Remove the case from the Assembly Press holding the case front cap in the case.

M 21. Remove the Detonator/cable assemblies as follows:

M 21.1

M 21.2

M 21.3 If necessary, pry the flat cable from the slot using a tongue depressor or orange stick. Carefully lift the flat cable from its slot. Do not permit any sharp bends in the flat cable when separating if from the adhesive.

M 21.4 Manually or using Vacuum Puller (000-2-197),

M 21.5 Remove Connector Cover from the cable assembly.

M 22. Package the cable assemblies per at any convenient time.

M 23. Install the in the Press as follows:

23.1 If not previously accomplished, install Adapter on the Assembly Press.

23.2 Install Bowl Adapter over the Adapter on the Assembly Press.

M 23.3 Ensure safety nets are installed around the bottom and top of the assembly and secured

M 23.4 Attach the 24-inch Strongback (000-2-221 or 000-2-123) to the HE

M 23.5 Using hoist and Strongback (000-2-221 or 000-2-123), carefully place the in Assembly Press with Adapter

M 23.6 Remove the hoist and Strongback (000-2-221 or 000-2-123) from the HE Rotating Band.

M 23.7 Remove the quick release pins from the bottom safety net.

M 23.8 Remove the HE Rotating Band from the

M 24. Place the top press adapter (with Adapter attached) on the upper half of the

M 24.1 Attach the three arms of the pressure fixture and close the needle valve on the hydraulic pump.

M 24.2 Actuate the hydraulic pump and carefully regulate the pressure on each side of the three gages, using their respective valves. The maximum pressure to be applied is 375 psi. Do not exceed this pressure on any gage.

M 25. Remove four capscrews and allen nuts securing clamp band.

M 26. Remove clamp band

M 27. Release the pressure on the release the three arms and remove the top pressure adapter

M 28. By hand, carefully lift the upper half and position it on chock or Assembly Chock

M 28.1 Carefully observe the as the upper half of the is being lifted.

M 28.2 If the sticks to the upper half, lower the upper half back onto the lower half and perform the following:

M 28.3 Attach the HE Handling Band to the Manually lift the rotate it 180 degrees, and lower it back onto the chock.

M 28.4 Remove the Handling Band carefully lift the upper half, and manually, place it on Chock or Assembly Chock

M 29. Remove the stress cushion .

30. Using the Vacuum Lifting Fixture , remove the and place it on a Rolling Chock (000-2-271).

31. Remove the fixture.

32. Remove the remaining stress cushion (

33. Monitor the remainder of the pit as follows:

33.1 Preliminary Requirements:

33.1.1 Equipment: Alpha Counter

RADIATION SAFETY REQUIREMENTS

Prior to start of disassembly operations in Cell 12-44-1 on the subject nuclear explosive, personnel shall be suited out in protective clothing as directed by Radiation Safety. Any additional radiation safety directives shall be documented as they are given.

A. The following procedures shall be utilized to support operational personnel who will disassemble the nuclear explosive and remove components in Cell 12-44-1.

B. The Radiation Safety and Operational personnel will wear self-contained breathing apparatus, anti-contamination clothing, boots and gloves. (Four pairs of gloves will be worn. Buttyl gloves with three pairs of PVC gloves over them.) Radiation Safety personnel will remind operating personnel of glove removal intervals.

C. All individuals who are involved with the Cell 12-44-1 access shall provide urine samples before entry and after exiting the contaminated area.

D. Equipment needed at the site includes; breathing air bottles, large plastic bags, wipe-test supplies, tape, large rolled plastic, radioactive wash, kimwipe towels or large paper towels, pencils, paper and two (2) Triton survey meters.

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NUCLEAR EXPLOSIVE SAFETY REQUIREMENTS

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M 1.

M 2.

///NOTES. 1. Two people shall install the on the warhead case.

2. Tighten the securely.

### CAUTION: Ensure the is installed flush with the upper edge of the painted portion of the case in three locations (120 degrees apart).

M 3. Attach around the upper part of the forward section of the case in such a manner that the The shall be located so that the latch bolts face toward the press pumps and flush with the upper edge of the painted portion of the case. Install Strongback (000-2-221 or 000-2-123) on the

### CAUTION: Failure to exercise care when lifting the unit could result in personnel injury and/or damage to the case.

M 4. Using a hoist, position the unit case on the Dolly on the Assembly Press with the rear cap up. Remove the sling.

M 5. Place Forward Retainer Ring on the lower ram adapter.

M 6. Position the unit case over the lower ram adapter. Raise the unit from the dolly by lifting the lower ram until the snap ring will fit into the groove on bottom of the case. Then lower the ram until the Forward Retainer Ring seats in place.

M 7. Install the wide Taper Ring between bottom of the case and the lower ram adapter.

M 8. Raise the lower ram, retract the Dolly and remove

M 9. Install Forward Retainer Ring over top of unit. Raise unit until Forward Retainer Ring can be placed in groove of Then lower unit until Forward Retainer Ring seats in place...

M 10. Install the narrow Taper Ring

### CAUTION: Safety stops shall be in functional position prior to attaching or detaching tooling to components for case and cap removal.

M 11. Lower the top ram vacuum cup until it almost touches the rear cap Attach safety screws of vacuum cup to the rear cap. Apply a vacuum to the cup and seat the cup on the rear cap. Then tighten the safety screws.

M 12. Raise lower ram adapter and press the case until the self-locking screws (836720), which hold the front cap to the case, can easily be removed.

###CAUTION: Do not exceed a force of 10,000 pounds (2250 psi on the lower ram gage).

M 13. Loosen and remove the 22 self-locking screws (836720).

### CAUTION: Hold the cables and the tube away so they will not be damaged.

M 14. Lower the bottom ram of the press and lower the away from the case.

M 15. Attach the HE Rotating Band to the

M 16. Raise the rear cap up approximately 8 inches and remove. Raise the until the Assembly Press Dolly will roll under the HE Rotating Band

16.1 Lower assembly onto Assembly Press Dolly , to allow installation of safety nets.

16.2 Install HE safety nets around the bottom of the

16.3 Using quick release pins, secure nets to the HE

M 17. Roll the away from the ram of the press.

M 18. Remove the fwd and aft compression caps

M 19. Using Strongback (000-2-221 or 000-2-123) and hoist, lift the assembly, move it aside, rotate 90 degrees with the tube up, and set it in Stand Remove the Strongback and hoist.

20. Remove the tapered ring, retainer ring, and case parts from the Assembly Press at any convenient time prior to disassembly of the next nuclear explosive.

20.1 Remove the O-ring from the front cap .

20.2 Remove the aft cap from the Assembly Press by removing the two screws and releasing the vacuum.

20.3 Raise the lower ram and front cap into the case.

20.4 Install two screws (836720), approximately 180 degrees to hold the front cap in the case. Ensure that the two screws are hand tight.

20.5 Release the pressure sufficiently to remove the Taper Ring from between the bottom of the case and press.

20.6 Raise the lower ram sufficiently, approximately 600 psi, to remove the Forward Retaining Ring from the bottom of the case.

20.7 Remove the Thin Taper Ring from between the top of the case and the barrel of the press.

20.8 Raise the case in the press enough to dislodge the Forward Retaining Ring and lower the ram and case.

20.9 Remove the case from the Assembly Press by hand.

20.10 Remove the case from the Assembly Press holding the case front cap in the case.

M 21. Remove the Detonator/cable assemblies as follows:

M 21.1

M 21.2

M 21.3 If necessary, pry the flat cable from the slot using a tongue depressor or orange stick. Carefully lift the flat cable from its slot. Do not permit any sharp bends in the flat cable when separating if from the adhesive.

M 21.4 Manually or using Vacuum Puller (000-2-197),

M 21.5 Remove Connector Cover from the assembly.

M 22. Package the assemblies per at any convenient time.

M 23. Install the in the Press as follows:

23.1 If not previously accomplished, install Adapter on the Assembly Press.

23.2 Install Bowl Adapter over the Adapter on the Assembly Press.

M 23.3 Ensure safety nets are installed around the bottom and top of the assembly and secured.

M 23.4 Attach the 24-inch Strongback (000-2-221 or 000-2-123) to the HE

M 23.5 Using hoist and Strongback (000-2-221 or 000-2-123), carefully place the in Assembly Press with Adapter

M 23.6 Remove the hoist and Strongback (000-2-221 or 000-2-123) from the HE Rotating Band.

M 23.7 Remove the quick release pins from the bottom safety net.

M 23.8 Remove the HE Rotating Band from the

M 24. Place the top press adapter (with Adapter attached) on the upper half of the

M 24.1 Attach the three arms of the pressure fixture and close the needle valve on the hydraulic pump.

M 24.2 Actuate the hydraulic pump and carefully regulate the pressure on each side of the three gages, using their respective valves. The maximum pressure to be applied is 375 psi. Do not exceed this pressure on any gage.

M 25. Remove four capscrews and allen nuts securing clamp band.

M 26. Remove clamp band

M 27. Release the pressure on the release the three arms and remove the top pressure adapter

M 28. By hand, carefully lift the upper half and position it on chock or Assembly Chock

M 28.1 Carefully observe the as the upper half of the is being lifted.

M 28.2 If the sticks to the upper half, lower the upper half back onto the lower half and perform the following:

M 28.3 Attach the HE Handling Band to the . Manually lift the , rotate it 180 degrees, and lower it back onto the chock.

M 28.4 Remove the Handling Band carefully lift the upper half, and manually, place it on Chock or Assembly Chock

M 29. Remove the stress cushion (

30. Using the Vacuum Lifting Fixture remove the and place it on a Rolling Chock (000-2-271).

31. Remove the fixture.

32. Remove the remaining stress cushion .

33. Dry swipe the surface of the for Alpha and Tritium contamination.

34. Package the pit as directed by

35. Dispose of all other parts per

5. Remove the tapered ring, retainer ring, and case parts from the Assembly Press at any convenient time.

5.1 Remove the O-ring from the front cap

5.2 Remove the aft cap from the Assembly Press by removing the two screws and releasing the vacuum.

5.3 Raise the lower ram and front cap into the case.

5.4 Install two screws (836720), approximately 180 degrees to hold the front cap in the case. Ensure that the two screws are hand tight.

5.5 Release the pressure sufficiently to remove the Taper Ring from between the bottom of the case and press.

5.6 Raise the lower ram sufficiently, approximately 600 psi, to remove the Forward Retaining Ring from the bottom of the case.

5.7 Remove the Thin Taper Ring from between the top of the case and the barrel of the press.

5.8 Raise the case in the press enough to dislodge the Forward Retaining Ring and lower the ram and case.

5.9 Remove the case from the Assembly Press by hand.

5.10 Remove the case from the Assembly Press holding the case front cap in the case.

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Exception to SF 14 Approved by NARS June 1978

Redacted version

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X YES ☐ NO

5

**U.S. DEPARTMENT OF ENERGY**
**TELECOMMUNICATION MESSAGE**
*(See reverse side for instructions.)*

3. USE WHEN REQUIRED

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|---|---|---|---|---|
| ACTION | ☐ Routine P | ☐ Priority | ☐ Immediate | ☐ FLASH |
| INFO | ☐ (6 Hrs.) | ☐ (3 Hrs.) | ☐ (30 Mins.) | ☐ (ASAP) |

5. TYPE OF MESSAGE ("X" appropriate box)

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☐ Multiple Address
☐ Title Address
☐ Book Message

FOR COMMUNICATION CENTER USE
MESSAGE IDENTIFICATION

NR: DTG: Z

6. FROM
USDOE
L. M. PARADEE
PANTEX EOC

7. OFFICIAL BUSINESS (TIME) A.M. P.M.
(Signature of authorizing official)

8. DATE MAY 26, 1988

9. TO
U.S. DEPARTMENT OF ENERGY, S. J. GUIDICE, AL EOC

COMMUNICATION CENTER ROUTING
69 69

CONFIDENTIAL/RESTRICTED DATA/CLASSIFIED BY L. M. PARADEE
DERIVATIVE CLASSIFIER, CHIEF, OMB/AAO.

SUBJECT:

TRANSMITTED HEREWITH FOR YOUR REVIEW AND APPROVAL ARE THE FOLLOWING PROCEDURES:

RESTRICTED DATA
This document contains Restricted Data as defined in the Atomic Energy Act of 1954. Unauthorized disclosure subject to Administrative and Criminal Sanctions.

CONTINUED

BE BRIEF ELIMINATE UNNECESSARY WORDS

10. ORIGINATOR (On separate lines, enter Name, Routing Symbol, & Tel. No.)

L. M. PARADEE
477-3161
AAO

11. DERIVATIVELY CLASSIFIED NSI

NATIONAL SECURITY INFORMATION
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Derivative Classifier (Name)
(Title)
Declassify on (Date or Event OADR)
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13. RESTRICTED DATA
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DERIVATIVE CLASSIFIER L. M. Paradee, Chief, OMB/AAAO
(Name and Title)

14. ☐ FORMERLY RESTRICTED DATA
Unauthorized disclosure subject to Administrative and Criminal Sanctions Handle as Restricted Data in Foreign Dissemination Section 144.b Atomic Energy Act, 1954

DERIVATIVE CLASSIFIER (Name and Title)

UNCLASSIFIED

15. INSERT BELOW, CLASSIFICATION LEVEL, UNCLASSIFIED, OR OFFICIAL USE ONLY

CONFIDENTIAL

1. EI (DATED 5/25/89) PREPARATION AND PACKAGING OF (INTERNALLY CONTAMINATED PIT)

2. EI (DATED 5/24/89) REMOVAL OF UNIT FROM DISASSEMBLY PRESS

3. EI (DATED 5/23/89) DISASSEMBLY OF (UNIT INVOLVED IN TRITIUM RELEASE)

4. EI (DATED 5/25/89) DISASSEMBLY OF LOCATED IN STAND

5. EI (DATED 5/25/89) DISASSEMBLY OF

AS STATED, THESE PROCEDURES COVER THE DISASSEMBLY, AND PREPARATION, AND PACKAGING OF THE INTERNALLY CONTAMINATED PIT; AND THE DISASSEMBLY OF THE OTHER TWO (S/N ) ONLY. THE PREPARATION AND PACKAGING OF UNITS IS CURRENTLY BEING WRITTEN AND WILL BE TRANSMITTED FOR REVIEW WHEN COMPLETED. THE PROCEDURES TO BE USED ARE STANDARD O&I DISASSEMBLY PROCEDURES USING SPECIAL PERSONNEL PROTECTION PRECAUTIONS.

THESE PROCEDURES HAVE BEEN REVIEWED BY DOE/AAO AND M&H NUCLEAR SAFETY ENGR. AND THE AL INVESTIGATION COMMITTEE CHAIRED BY NEIL HARKER. THE EG&G AND WESTINGHOUSE PERSONNEL AT PANTEX WILL REVIEW THE RADIATION PROTECTION ASPECTS OF THESE PROCEDURES TODAY.

ATTACHMENTS.

END OF MESSAGE.

13.1.7 Observe the peak reading on the Leak Rate meter or LED readout. Reduce the range as necessary to attain maximum reading on the horizontal bars.

13.1.8 Change RANGE DIAL for BEST indication of leak.

13.1.9 Record the peak reading as required.

13.1.10 After completion of testing, turn operating handle to VENT.

13.1.11 Remove probe, insert test port plug, and tighten cap assembly.

13.1.12 Proceed with Steps 13.1.4 thru 13.1.5 to leave operating handle in TEST.

13.2 Standby, Power Failure, and Shutdown Procedures:

13.2.1 If power fails, turn operating handle to VENT and turn Electronics switch to OFF.

13.2.2 When power is restored, perform start-up procedures for Step 8.

13.2.3 For overnight or weekend standby, turn operating handle to TEST and leave the filament ON.

13.3 Complete shutdown:

13.3.1 Turn operating handle to VENT.

13.3.2 Turn Electronics switch to OFF.

13.3.3 Turn Service valve located on rear upper center, fully counterclockwise (about seven turns).

13.3.4 Turn Main Power switch located on the front panel to OFF.

13.3.5 After 20 minutes, turn the operating handle to START and switch the Main Power switch on the Vacuum pump to the OFF position.

13.4 Inspector calibration and tuning (perform the following operations every 24 hours):

13.4.1 Adjust zero as follows:

13.4.1.1 Turn range selector counterclockwise to $10^{-7}$ range.

13.4.1.2 Turn filament OFF.

13.4.1.3 Varian should indicate zero (1 to 3 red bars); if not, use exterior Zero Adjust knob to obtain 1 to 3 red bars indicated. Notify Quality Engineer if zero can not be obtained.

13.4.1.4 Turn filament ON.

13.4.1.5 Turn range selector to $10^{-4}$ range.

13.5 Calibration and tuning check:

13.5.1 Turn operating handle to VENT.

13.5.2 Remove the port plug.

13.5.3 Insert the Standard Leak Adapter (800-3-62) and tighten cap assembly.

13.5.4 Insert a standard leak of the appropriate size ($3.3 \times 10^{-5}$ to $1 \times 10^{-3}$ helium cc/sec) into the Adapter and tighten the Adapter fitting.

13.5.5 Ensure that the valve is open.

### CAUTIONS:

1. **Do not leave the operating handle in the START position longer than five minutes.**
2. **If test port pressure fails to reach 100 millitorr, the operating handle shall be turned clockwise to the VENT position and the system checked for possible leaks.**

13.5.6 Turn the operating handle to START and observe the test port pressure.

13.5.7 When the test port pressure is in the green band, turn the handle to TEST. Do not leave the handle in the START position longer than five minutes.

13.5.8 Ensure that the filament light is ON. Turn filament on if it is off. If there is no indication, notify Electronic Maintenance.

13.5.9 If the leak reading is within $\pm$ $2.0 \times 10^{-5}$ of the calibrated value of the leak, use the Calibration knob to adjust the reading to agree with the standard leak value.

13.5.10 If the leak reading is more than ± 2.0 but less than ± 5.0 X $10^{-5}$ different than the standard leak reading, use the Ion knob (do not turn more than one revolution) and the Calibration knob to bring the reading into agreement with the calibrated value of the standard leak. If the value is more than 5.0 X $10^{-5}$ off, notify Electronic Maintenance.

13.5.11 Shut the Adapter valve (turn clockwise). The Leak Rate meter should indicate zero. If not, notify Electronics Maintenance.

13.5.12 After completion of this operation turn the operating handle to the

14. Install the DPV containment vessel in the model 2030-1 shipping container as follows: (Reference Appendix 2)

14.1 Place the two disks in the bottom of the shipping container and set six rings on the disks.

14.2 Place the containment vessel inside the rings, pressure gage up.

14.3 Place four appropriate rings on top of the containment vessel.

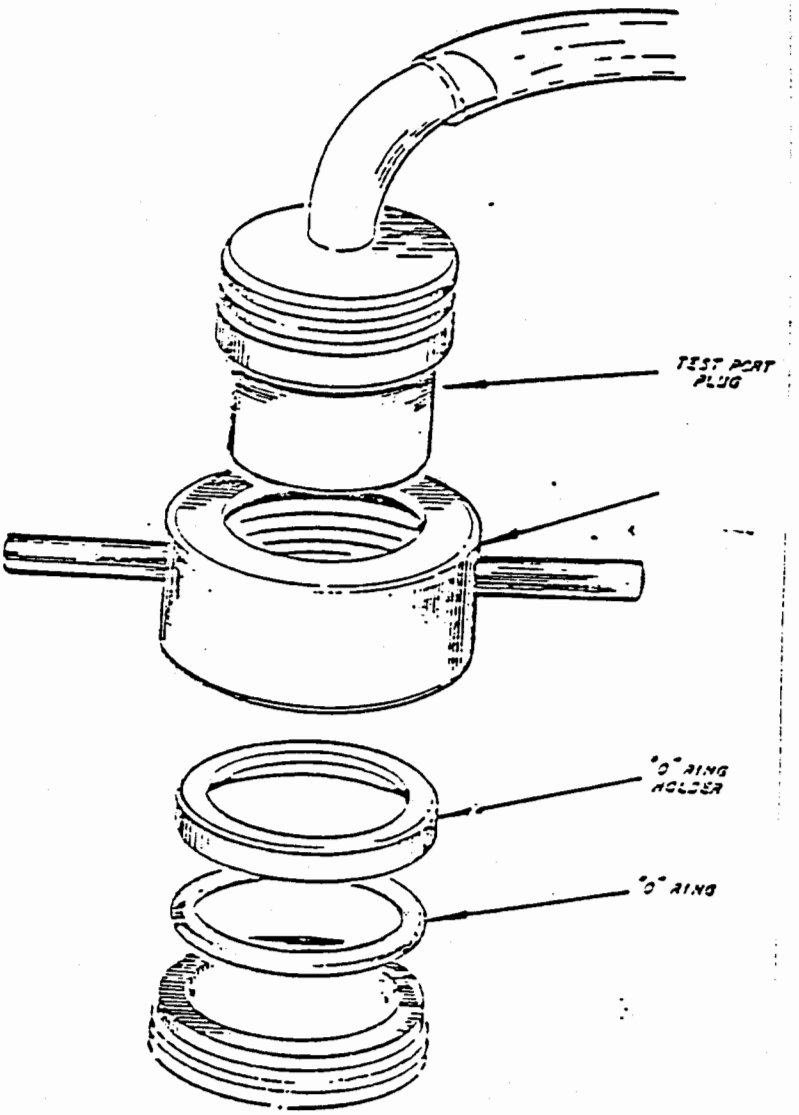
14.4 Place two or more disks on the rings so that the disk-to-lid gap will be one-half inch maximum.

14.5 Place a 12-inch square of Cerafelt insulation pad on the disk.

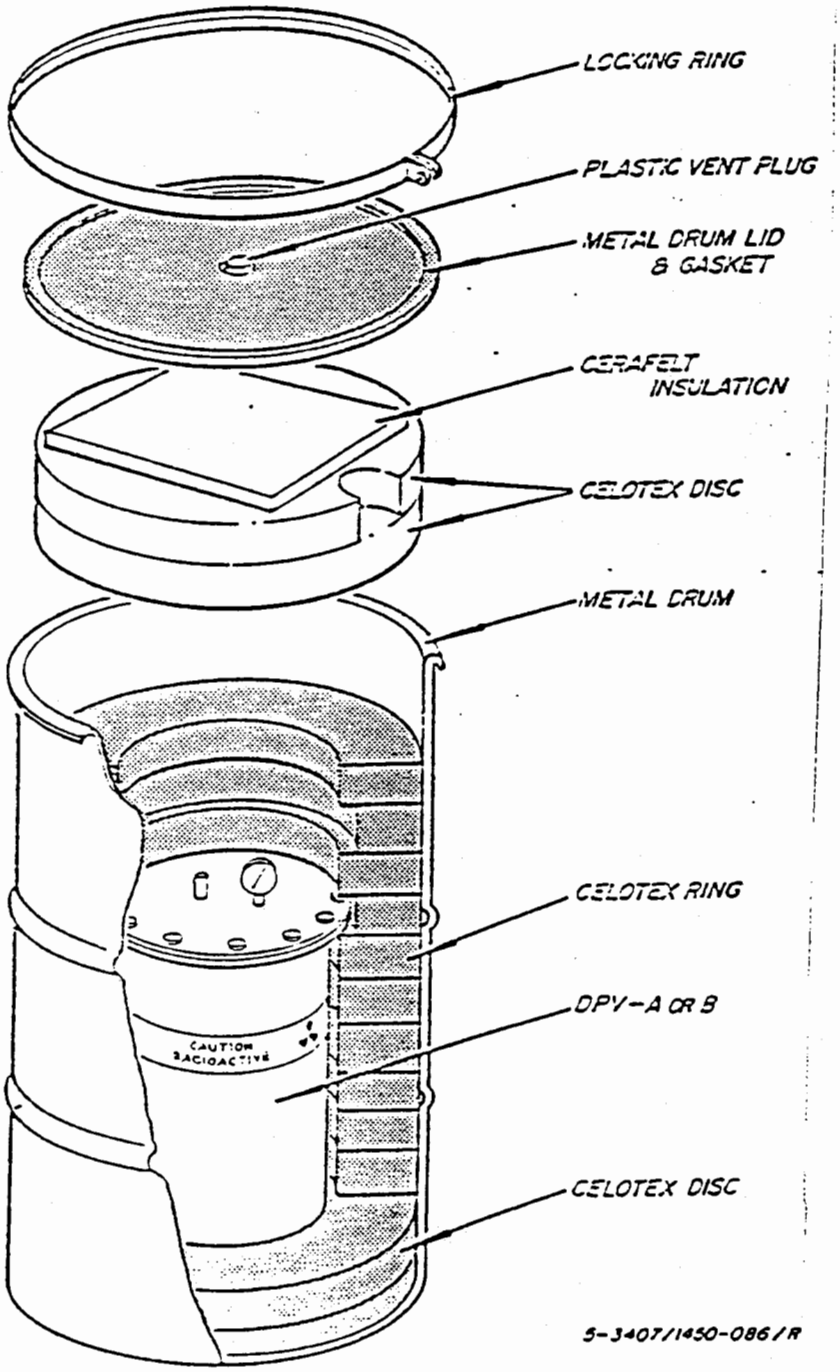
14.6 If not previously accomplished, install a plastic vent plug in the shipping container lid.

14.7 Secure the lid on the shipping container with the locking ring and a 5/8-inch diameter bolt and lock nut. While tapping the locking ring with a soft-head hammer, tighten the bolt. If the ends of the locking ring close before the lid is secure, determine the cause and replace defective parts as necessary.

14.8 Install a tamper indicating device (cup seal) on the locking ring bolt, and install the associated bar-code stickers to the container.




Appendix 1


LOCKING RING
PLASTIC VENT PLUG
METAL DRUM LID & GASKET
CERAFELT INSULATION
CELOTEX DISC
METAL DRUM
CELOTEX RING
DPV-A OR B
CELOTEX DISC
CAUTION RADIOACTIVE
S-3407/1450-086/R

Appendix 2

Legend: 1 = squib VALVE ATTACHED

UNCLASSIFIED

Redacted VERSION

| CODE | TYPE | SUFX | MFG | ACTUAL SERIAL | DATCD | LOCATION | PARTNO | SUFX | TIME | DATE | BADGE | SEAL | BUDDY | TALLY | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | DAF | 18554A | D89 | 1204207 | 211922 | 00 | 1438 | 052689 | 07318 | | 07353 | | |
| | | | DAF | 18632A | D89 | 1204207 | 211922 | 00 | 1438 | 052689 | 07318 | | 07353 | | |
| | | | DAF | 18639A | D89 | 1204207 | 211922 | 00 | 1438 | 052689 | 07318 | | 07353 | | |
| | | | DAF | 18667A | D89 | 1204207 | 211922 | 00 | 1438 | 052689 | 07318 | | 07353 | | |
| | | | DAF | 25841A | D89 | 1204207 | 211922 | 00 | 1438 | 052689 | 07318 | | 07353 | | |
| | | | DAF | 25842A | D89 | 1204207 | 211922 | 00 | 1438 | 052689 | 07318 | | 07353 | | |
| | | | DAF | 25850A | D89 | 1204207 | 211922 | 00 | 1438 | 052689 | 07318 | | 07353 | | |
| | | | DAF | 25866A | D89 | 1204207 | 211922 | 00 | 1438 | 052689 | 07318 | | 07353 | | |
| | | | DAF | 25879A | D89 | 1204207 | 211922 | 00 | 1438 | 052689 | 07318 | | 07353 | | |
| | | | DAF | 25889A | D89 | 1204207 | 211922 | 00 | 1438 | 052689 | 07318 | | 07353 | | |
| LL | LF7 | 11 | DAF | 205140 | I88 | 1204207 | 422051 | 00 | 1437 | 052689 | 07318 | | 07353 | 1 | WR |
| LL | 1A42 | 1 | | 312646 | F88 | 1204207 | 421478 | 00 | 1447 | 052689 | 07318 | | 07353 | | |
| LL | 1A42 | 1 | | 363205 | L85 | 1204207 | 421478 | 00 | 1447 | 052689 | 07318 | | 07353 | | |
| LL | 1A42 | 1 | | 444592 | L87 | 1204207 | 421478 | 00 | 1447 | 052689 | 07318 | | 07353 | | |
| LL | 1C20 | AS | | 301288 | J83 | 1204207 | 420854 | 00 | 1448 | 052689 | 07318 | | 07353 | 1 | SHIP (NOT PKGD) |
| LL | 1C20 | AS | | 303954 | J83 | 1204207 | 420854 | 00 | 1444 | 052689 | 07318 | | 07353 | | |
| LL | 1C20 | AS | | 358168 | H87 | 1204207 | 420854 | 00 | 1444 | 052689 | 07318 | | 07353 | | |
| LL | 1C20 | AS | | 358784 | K86 | 1204207 | 420854 | 00 | 1448 | 052689 | 07318 | | 07353 | | |
| LL | 1C20 | AS | | 360108 | K85 | 1204207 | 420854 | 00 | 1448 | 052689 | 07318 | | 07353 | | |
| LL | 1C20 | AS | | 365946 | E86 | 1204207 | 420854 | 00 | 1446 | 052689 | 07318 | | 07353 | | |
| LL | 1C20 | AS | | 401069 | H87 | 1204207 | 420854 | 00 | 1444 | 052689 | 07318 | | 07353 | | |
| LL | 1C20 | AS | | 403122 | K86 | 1204207 | 420854 | 00 | 1449 | 052689 | 07318 | | 07353 | | |
| LL | 1C20 | AS | | 403242 | K86 | 1204207 | 420854 | 00 | 1444 | 052689 | 07318 | | 07353 | | |
| LL | 1C20 | AS | | 403568 | I85 | 1204207 | 420854 | 00 | 1448 | 052689 | 07318 | | 07353 | | |
| LL | 1C20 | AS | | 403774 | K83 | 1204207 | 420854 | 00 | 1446 | 052689 | 07318 | | 07353 | | |
| LL | 1C20 | AS | | 403914 | H87 | 1204207 | 420854 | 00 | 1445 | 052689 | 07318 | | 07353 | | |
| LL | 1C20 | AS | | 406008 | K86 | 1204207 | 420854 | 00 | 1449 | 052689 | 07318 | | 07353 | | |
| LL | 1C20 | AS | | 406022 | K83 | 1204207 | 420854 | 00 | 1445 | 052689 | 07318 | | 07353 | | |
| LL | 1C20 | AS | | 406047 | G87 | 1204207 | 420854 | 00 | 1446 | 052689 | 07318 | | 07353 | | |
| LL | 1C20 | AS | | 406130 | J86 | 1204207 | 420854 | 00 | 1445 | 052689 | 07318 | | 07353 | | |
| LL | 1C20 | AS | | 458647 | K83 | 1204207 | 420854 | 00 | 1446 | 052689 | 07318 | | 07353 | | |
| LL | 1C20 | AS | | 458794 | H87 | 1204207 | 420854 | 00 | 1448 | 052689 | 07318 | | 07353 | | |
| LL | 1C20 | AS | | 458907 | K83 | 1204207 | 420854 | 00 | 1444 | 052689 | 07318 | | 07353 | | |
| LL | 1C20 | AS | | 460514 | H87 | 1204207 | 420854 | 00 | 1444 | 052689 | 07318 | | 07353 | | |
| LL | 1C20 | AS | | 460625 | L85 | 1204207 | 420854 | 00 | 1447 | 052689 | 07318 | | 07353 | | |
| LL | 1C20 | AS | | 465152 | H87 | 1204207 | 420854 | 00 | 1444 | 052689 | 07318 | | 07353 | | |
| LL | 1C20 | AS | | 465933 | E87 | 1204207 | 420854 | 00 | 1444 | 052689 | 07318 | | 07353 | | |
| LL | 1C20 | AS | | 466139 | L85 | 1204207 | 420854 | 00 | 1444 | 052689 | 07318 | | 07353 | | |
| LL | 1C20 | AS | | 466388 | H87 | 1204207 | 420854 | 00 | 1449 | 052689 | 07318 | | 07353 | | |
| LL | 1C20 | AS | | 473111 | H87 | 1204207 | 420854 | 00 | 1449 | 052689 | 07318 | | 07353 | | |
| LL | 1C20 | AS | | 473287 | H87 | 1204207 | 420854 | 00 | 1446 | 052689 | 07318 | | 07353 | | |
| LL | 1C20 | AS | | 473740 | J83 | 1204207 | 420854 | 00 | 1444 | 052689 | 07318 | | 07353 | | |
| LL | 1C20 | AS | | 493045 | L85 | 1204207 | 420854 | 00 | 1445 | 052689 | 07318 | | 07353 | | |
| LL | 1C20 | AS | | 560400 | H87 | 1204207 | 420854 | 00 | 1446 | 052689 | 07318 | | 07353 | | |
| LL | 1C20 | AS | | 560640 | I85 | 1204207 | 420854 | 00 | 1448 | 052689 | 07318 | | 07353 | | |
| LL | 1C20 | AS | | 566626 | H87 | 1204207 | 420854 | 00 | 1449 | 052689 | 07318 | | 07353 | | |
| LL | 1C38 | AS | | 301150R | H83 | 1204207 | 421365 | 00 | 1447 | 052689 | 07318 | | 07353 | | |
| LL | 1C38 | AS | | 303041 | J82 | 1204207 | 421365 | 00 | 1446 | 052689 | 07318 | | 07353 | | |
| LL | 1C38 | AS | | 303250 | J83 | 1204207 | 421365 | 00 | 1448 | 052689 | 07318 | | 07353 | | |
| LL | 1C38 | AS | | 303292 | J83 | 1204207 | 421365 | 00 | 1443 | 052689 | 07318 | | 07353 | | |
| LL | 1C38 | AS | | 303404 | G83 | 1204207 | 421365 | 00 | 1444 | 052689 | 07318 | | 07353 | | |

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THIS DOCUMENT CONTAINS RESTRICTED DATA AS DEFINED IN THE ATOMIC ENERGY ACT OF 1954. UNAUTHORIZED DISCLOSURE SUBJECT TO ADMINISTRATIVE AND CRIMINAL SANCTIONS.

C-O-N-F-I-D-E-N-T-I-A-L

DERIVATIVE CLASSIFIER
DATE 05/26/89
NAME M. F. KELLER
TITLE MASS ACCOUNTABILITY SUPERVISOR

UNCLASSIFIED

UNCLASSIFIED

| CODE | TYPE | SUFX | MFG | ACTUAL SERIAL | DATCD | LOCATION | PARTNO | SUFX | TIME | DATE | BADGE | SEAL | BUDDY | TALLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL | 1C38 | AS | | 458498 | D86 | 1204207 | 421365 | 00 | 1449 | 052689 | 07318 | | 07353 | 1 |
| LL | 1C38 | AS | | 458568 | D86 | 1204207 | 421365 | 00 | 1446 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 458699 | J83 | 1204207 | 421365 | 00 | 1448 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 458771 | D86 | 1204207 | 421365 | 00 | 1449 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 458790 | F85 | 1204207 | 421365 | 00 | 1444 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 458847 | A86 | 1204207 | 421365 | 00 | 1449 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 460057 | D86 | 1204207 | 421365 | 00 | 1446 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 460160 | G83 | 1204207 | 421365 | 00 | 1444 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 460535 | D86 | 1204207 | 421365 | 00 | 1449 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 460661 | G83 | 1204207 | 421365 | 00 | 1449 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 460668 | A83 | 1204207 | 421365 | 00 | 1449 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 460719 | E87 | 1204207 | 421365 | 00 | 1446 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 460805 | A83 | 1204207 | 421365 | 00 | 1446 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 460844 | D86 | 1204207 | 421365 | 00 | 1445 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 460937 | G83 | 1204207 | 421365 | 00 | 1444 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 465126 | L85 | 1204207 | 421365 | 00 | 1443 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 465273 | F85 | 1204207 | 421365 | 00 | 1443 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 465332 | E87 | 1204207 | 421365 | 00 | 1448 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 465427 | J83 | 1204207 | 421365 | 00 | 1448 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 465606 | F85 | 1204207 | 421365 | 00 | 1447 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 465761 | J83 | 1204207 | 421365 | 00 | 1449 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 465805 | A83 | 1204207 | 421365 | 00 | 1450 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 465912 | D86 | 1204207 | 421365 | 00 | 1443 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 466131 | C86 | 1204207 | 421365 | 00 | 1448 | 052689 | 07318 | | 07353 | |
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| LL | 1C38 | AS | | 466382 | F85 | 1204207 | 421365 | 00 | 1447 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 466438 | I85 | 1204207 | 421365 | 00 | 1445 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 466525 | F85 | 1204207 | 421365 | 00 | 1447 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 466535 | F85 | 1204207 | 421365 | 00 | 1449 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 466556 | J83 | 1204207 | 421365 | 00 | 1444 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 466600 | C86 | 1204207 | 421365 | 00 | 1450 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 466607 | C86 | 1204207 | 421365 | 00 | 1444 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 466671 | F85 | 1204207 | 421365 | 00 | 1446 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 466775 | A86 | 1204207 | 421365 | 00 | 1446 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 466802 | F85 | 1204207 | 421365 | 00 | 1445 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 466851 | J83 | 1204207 | 421365 | 00 | 1445 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 466933 | D86 | 1204207 | 421365 | 00 | 1445 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 466942 | F85 | 1204207 | 421365 | 00 | 1449 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 466973 | L85 | 1204207 | 421365 | 00 | 1449 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 466980 | | 1204207 | 421365 | 00 | 1444 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 503829 | D86 | 1204207 | 421365 | 00 | 1450 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 503943 | L84 | 1204207 | 421365 | 00 | 1446 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 517470 | C86 | 1204207 | 421365 | 00 | 1446 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 558480 | D86 | 1204207 | 421365 | 00 | 1449 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 560516 | C86 | 1204207 | 421365 | 00 | 1447 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 566033 | J83 | 1204207 | 421365 | 00 | 1447 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 566173 | I85 | 1204207 | 421365 | 00 | 1446 | 052689 | 07318 | | 07353 | |
| LL | 1C38 | AS | | 573330 | F85 | 1204207 | 421365 | 00 | 1448 | 052689 | 07318 | | 07353 | |
| LL | 1H67 | | | 453063 | D85 | 1204207 | 422167 | 00 | 1443 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 201027 | J88 | 1204207 | 422229 | 01 | 1435 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 201070 | L88 | 1204207 | 422229 | 01 | 1435 | 052689 | 07318 | | 07353 | |

Ship (Not Pkgd.)

* * * RESTRICTED DATA * * *
THIS DOCUMENT CONTAINS RESTRICTED DATA AS DEFINED IN THE ATOMIC ENERGY ACT OF 1954. UNAUTHORIZED DISCLOSURE SUBJECT TO ADMINISTRATIVE AND CRIMINAL SANCTIONS.

C-O-N-F-I-D-E-N-T-I-A-L

DERIVATIVE CLASSIFIER
DATE 05/26/89
NAME M. F. KELLER
TITLE SS ACCOUNTABILITY SUPERVISOR

UNCLASSIFIED

UNCLASSIFIED

| CODE | TYPE | SUFX | MFG | ACTUAL SERIAL | DATCD | LOCATION | PARTNO | SUFX | TIME | DATE | BADGE | SEAL | BUDDY | TALLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL | 1K71 | | DAF | 201087 | J88 | 1204207 | 422229 | 01 | 1435 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 201188 | J88 | 1204207 | 422229 | 01 | 1435 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 201190 | J88 | 1204207 | 422229 | 01 | 1435 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 201229 | J88 | 1204207 | 422229 | 01 | 1435 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 201244 | J88 | 1204207 | 422229 | 01 | 1435 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 201248 | J88 | 1204207 | 422229 | 01 | 1435 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 201251 | L88 | 1204207 | 422229 | 01 | 1436 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 201260 | L88 | 1204207 | 422229 | 01 | 1435 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 201701 | L88 | 1204207 | 422229 | 01 | 1436 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 201702 | L88 | 1204207 | 422229 | 01 | 1436 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 201720 | J88 | 1204207 | 422229 | 01 | 1435 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 201721 | L88 | 1204207 | 422229 | 01 | 1435 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 203709 | J88 | 1204207 | 422229 | 01 | 1435 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | | 203739 | C88 | 1204207 | 422229 | 01 | 1434 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 203752 | J88 | 1204207 | 422229 | 01 | 1435 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 203757 | J88 | 1204207 | 422229 | 01 | 1435 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 203765 | L88 | 1204207 | 422229 | 01 | 1436 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | | 203797 | I88 | 1204207 | 422229 | 01 | 1434 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 203804 | J88 | 1204207 | 422229 | 01 | 1435 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 203817 | J88 | 1204207 | 422229 | 01 | 1435 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 203830 | L88 | 1204207 | 422229 | 01 | 1436 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 203834 | L88 | 1204207 | 422229 | 01 | 1435 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 203836 | J88 | 1204207 | 422229 | 01 | 1435 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 203840 | J88 | 1204207 | 422229 | 01 | 1435 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 203862 | J88 | 1204207 | 422229 | 01 | 1434 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 203876 | L88 | 1204207 | 422229 | 01 | 1435 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 203879 | J88 | 1204207 | 422229 | 01 | 1434 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 206619 | L88 | 1204207 | 422229 | 01 | 1436 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | IK | 208847 | E87 | 1204207 | 422229 | 00 | 1447 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | | 208927 | E87 | 1204207 | 422229 | 01 | 1434 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 209008 | L88 | 1204207 | 422229 | 01 | 1435 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 209130 | J88 | 1204207 | 422229 | 01 | 1434 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 209139 | L88 | 1204207 | 422229 | 01 | 1436 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 209142 | L88 | 1204207 | 422229 | 01 | 1435 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 209146 | J88 | 1204207 | 422229 | 01 | 1435 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 209179 | J88 | 1204207 | 422229 | 01 | 1435 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 209181 | L88 | 1204207 | 422229 | 01 | 1436 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 209186 | J88 | 1204207 | 422229 | 01 | 1435 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 209187 | L88 | 1204207 | 422229 | 01 | 1435 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 209198 | J88 | 1204207 | 422229 | 01 | 1435 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 209313 | J88 | 1204207 | 422229 | 01 | 1435 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 209345 | J88 | 1204207 | 422229 | 01 | 1434 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 303764 | L88 | 1204207 | 422229 | 01 | 1436 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 306556 | J88 | 1204207 | 422229 | 01 | 1435 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | DAF | 306642 | L88 | 1204207 | 422229 | 01 | 1436 | 052689 | 07318 | | 07353 | |
| LL | 1K71 | | IK | 3841 | G84 | 1204207 | 422229 | 00 | 1447 | 052689 | 07318 | | 07353 | |
| LL | 1M2M | AS | | 10652 | L85 | 1204207 | 422531 | 00 | 1434 | 052689 | 07318 | | 07353 | 1 |
| LL | 1M2M | AS | | 10657 | K85 | 1204207 | 422531 | 00 | 1433 | 052689 | 07318 | | 07353 | |
| LL | 1M2M | AS | | 10659 | A87 | 1204207 | 422531 | 00 | 1434 | 052689 | 07318 | | 07353 | |
| LL | 1M2M | AS | | 10741 | | 1204207 | 422531 | 00 | 1426 | 052689 | 07318 | | 07353 | |
| LL | 1M2M | AS | | 10765 | | 1204207 | 422531 | 00 | 1424 | 052689 | 07318 | | 07353 | |

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Bulkhead application

* * * RESTRICTED DATA * * *
THIS DOCUMENT CONTAINS RESTRICTED DATA AS DEFINED IN THE ATOMIC ENERGY ACT OF 1954. UNAUTHORIZED DISCLOSURE SUBJECT TO ADMINISTRATIVE AND CRIMINAL SANCTIONS.

C-O-N-F-I-D-E-N-T-I-A-L

DERIVATIVE CLASSIFIER
DATE 05/26/89
NAME M. F. KELLER
TITLE SS ACCOUNTABILITY SUPERVISOR

UNCLASSIFIED

UNCLASSIFIED

| CODE | TYPE | SUFX | MFG | ACTUAL SERIAL | DATCD | LOCATION | PARTNO | SUFX | TIME | DATE | BADGE | SEAL | BUDDY | TALLY |
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| LL | 1M2M | AS | | 10901 | | 1204207 | 422531 | 00 | 1425 | 052689 | 07318 | | 07353 | |
| LL | 1M2M | AS | | 10910 | | 1204207 | 422531 | 00 | 1426 | 052689 | 07318 | | 07353 | |
| LL | 1M2M | AS | | 11005 | | 1204207 | 422531 | 00 | 1425 | 052689 | 07318 | | 07353 | |
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| LL | 1M2M | AS | | 11025 | | 1204207 | 422531 | 00 | 1425 | 052689 | 07318 | | 07353 | |
| LL | 1M2M | AS | | 11033 | | 1204207 | 422531 | 00 | 1424 | 052689 | 07318 | | 07353 | |
| LL | 1M2M | AS | | 11035 | | 1204207 | 422531 | 00 | 1425 | 052689 | 07318 | | 07353 | |
| LL | 1M2M | AS | | 11037 | | 1204207 | 422531 | 00 | 1424 | 052689 | 07318 | | 07353 | |
| LL | 1M2M | AS | | 11122 | | 1204207 | 422531 | 00 | 1425 | 052689 | 07318 | | 07353 | |
| LL | 1M2M | AS | | 11125 | | 1204207 | 422531 | 00 | 1426 | 052689 | 07318 | | 07353 | |
| LL | 1M2M | AS | | 11194 | | 1204207 | 422531 | 00 | 1425 | 052689 | 07318 | | 07353 | |
| LL | 1M2M | AS | | 11246 | | 1204207 | 422531 | 00 | 1426 | 052689 | 07318 | | 07353 | |
| LL | 1M2M | AS | | 11275 | I88 | 1204207 | 422531 | 00 | 1433 | 052689 | 07318 | | 07353 | |
| LL | 1M2M | AS | | 11311 | | 1204207 | 422531 | 00 | 1426 | 052689 | 07318 | | 07353 | |
| LL | 1M2M | AS | | 11317 | | 1204207 | 422531 | 00 | 1425 | 052689 | 07318 | | 07353 | |
| LL | 1M2M | AS | | 11373 | | 1204207 | 422531 | 00 | 1424 | 052689 | 07318 | | 07353 | |
| LL | 1M2M | AS | | 11568 | | 1204207 | 422531 | 00 | 1425 | 052689 | 07318 | | 07353 | |
| LL | 1M2M | AS | | 11572 | | 1204207 | 422531 | 00 | 1425 | 052689 | 07318 | | 07353 | |
| LL | 1M2M | AS | | 11575 | | 1204207 | 422531 | 00 | 1424 | 052689 | 07318 | | 07353 | |
| LL | 1M2M | AS | | 11599 | | 1204207 | 422531 | 00 | 1424 | 052689 | 07318 | | 07353 | |
| LL | 1M2M | AS | | 11600 | | 1204207 | 422531 | 00 | 1426 | 052689 | 07318 | | 07353 | |
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| LL | 1M2M | AS | | 11602 | | 1204207 | 422531 | 00 | 1424 | 052689 | 07318 | | 07353 | |
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| LL | 1M2M | AS | | 11739 | | 1204207 | 422531 | 00 | 1425 | 052689 | 07318 | | 07353 | |
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| LL | 1M2M | AS | | 11959 | | 1204207 | 422531 | 00 | 1425 | 052689 | 07318 | | 07353 | |
| LL | 1M2M | AS | | 11982 | | 1204207 | 422531 | 00 | 1424 | 052689 | 07318 | | 07353 | |
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| LL | 1508 | | DAQ | 336593 | G86 | 1204207 | 250119 | 02 | 1455 | 052689 | 07318 | | 07353 | |
| LL | 1508 | | DAQ | 336655 | G86 | 1204207 | 250119 | 02 | 1455 | 052689 | 07318 | | 07353 | |
| LL | 1508 | | DAQ | 336879 | A87 | 1204207 | 250119 | 02 | 1455 | 052689 | 07318 | | 07353 | |
| LL | 1508 | | DAQ | 353628 | H85 | 1204207 | 250119 | 02 | 1454 | 052689 | 07318 | | 07353 | |
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| LL | 1508 | | DAF | 436335 | L88 | 1204207 | 250119 | 03 | 1437 | 052689 | 07318 | | 07353 | |
| LL | 1508 | | DAF | 436774 | L88 | 1204207 | 250119 | 03 | 1436 | 052689 | 07318 | | 07353 | |
| LL | 1508 | | DAF | 536282 | L88 | 1204207 | 250119 | 03 | 1436 | 052689 | 07318 | | 07353 | |
| LL | 1508 | | DAF | 536539 | L88 | 1204207 | 250119 | 03 | 1437 | 052689 | 07318 | | 07353 | |
| LL | 1508 | | DAF | 536552 | L88 | 1204207 | 250119 | 03 | 1437 | 052689 | 07318 | | 07353 | |
| LL | 2H68 | | | 307308 | E85 | 1204207 | 422168 | 00 | 1443 | 052689 | 07318 | | 07353 | |
| LL | 2J46 | | | 207059 | D83 | 1204207 | 421738 | 00 | 1453 | 052689 | 07318 | | 07353 | |
| LL | 2J46 | | | 207724 | D84 | 1204207 | 421738 | 00 | 1453 | 052689 | 07318 | | 07353 | |

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* * * RESTRICTED DATA * * *
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C-O-N-F-I-D-E-N-T-I-A-L

DERIVATIVE CLASSIFIER
DATE 05/26/89
NAME M. E. KELLER
TITLE SS ACCOUNTABILITY SUPERVISOR

UNCLASSIFIED

| CODE | TYPE | SUFX | MFG | ACTUAL SERIAL | DATCD | LOCATION | PARTNO | SUFX | TIME | DATE | BADGE | SEAL | BUDDY | TALLY |
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| LL | 2J46 | | | 307177 | C87 | 1204207 | 421738 | 00 | 1453 | 052689 | 07318 | | 07353 | |
| LL | 2J46 | | | 307373 | G86 | 1204207 | 421738 | 00 | 1453 | 052689 | 07318 | | 07353 | |
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| LL | 2J46 | | | 309516 | G84 | 1204207 | 421738 | 00 | 1443 | 052689 | 07318 | | 07353 | |
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| LL | 2659 | B | DAF | 6638B | J82 | 1204207 | 211677 | 00 | 1453 | 052689 | 07318 | | 07353 | |
| LL | 2659 | B | DAF | 8039B | B83 | 1204207 | 211677 | 00 | 1453 | 052689 | 07318 | | 07353 | |
| LL | 2659 | B | DAF | 9118B | I78 | 1204207 | 211677 | 00 | 1454 | 052689 | 07318 | | 07353 | |
| LL | 2659 | B | DAF | 9123B | I78 | 1204207 | 211677 | 00 | 1453 | 052689 | 07318 | | 07353 | |
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| LL | 2659 | B | DAF | 9265B | D79 | 1204207 | 211677 | 00 | 1454 | 052689 | 07318 | | 07353 | |
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| LL | 2659 | B | DAF | 9295B | D79 | 1204207 | 211677 | 00 | 1443 | 052689 | 07318 | | 07353 | |
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| LL | 2659 | B | DAF | 9518B | E79 | 1204207 | 211677 | 00 | 1442 | 052689 | 07318 | | 07353 | |
| LL | 2659 | B | DAF | 9533B | E79 | 1204207 | 211677 | 00 | 1442 | 052689 | 07318 | | 07353 | |
| LL | 2659 | B | DAF | 9539B | E79 | 1204207 | 211677 | 00 | 1442 | 052689 | 07318 | | 07353 | |
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| LL | 2659 | B | DAF | 9897B | J78 | 1204207 | 211677 | 00 | 1453 | 052689 | 07318 | | 07353 | |
| LL | 3135 | B | DAF | 3334 | J86 | 1204207 | 211906 | 00 | 1430 | 052689 | 07318 | | 07353 | |
| LL | 3135 | B | DAF | 8421 | D88 | 1204207 | 211906 | 00 | 1430 | 052689 | 07318 | | 07353 | |
| LL | 3135 | B | DAF | 8427 | D88 | 1204207 | 211906 | 00 | 1431 | 052689 | 07318 | | 07353 | |
| LL | 3135 | B | DAF | 8448 | C88 | 1204207 | 211906 | 00 | 1431 | 052689 | 07318 | | 07353 | |
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| LL | 3136 | | DAF | 1447 | D88 | 1204207 | 211591 | 02 | 1431 | 052689 | 07318 | | 07353 | |

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C-O-N-F-I-D-E-N-T-I-A-L

DERIVATIVE CLASSIFIER
DATE 05/26/89
NAME M. F. KELLER
TITLE SS ACCOUNTABILITY SUPERVISOR

UNCLASSI

| CODE | TYPE | SUFX | MFG | ACTUAL SERIAL | DATCD | LOCATION | PARTNO |
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| LL | 3137 | | DAF | 6830 | D88 | 1204207 | 211 |
| LL | 3137 | | DAF | 6905 | D88 | 1204207 | 211 |
| LL | 3137 | | DAF | 6908 | D88 | 1204207 | 211 |
| LL | 3137 | | DAF | 6988 | D88 | 1204207 | 211 |
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| LL | 3251 | | DAF | 1773A | D89 | 1204207 | 211 |
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| LL | 3251 | | DAF | 1782A | D89 | 1204207 | 211 |
| LL | 3251 | | DAF | 1946A | B89 | 1204207 | 211 |
| LL | 3251 | | DAF | 1947A | B89 | 1204207 | 211 |
| LL | 3251 | | DAF | 1948A | B89 | 1204207 | 211 |
| LL | 3251 | | DAF | 1950A | D89 | 1204207 | 211 |
| LL | 3251 | | DAF | 1951A | B89 | 1204207 | 2111 |
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| LL | 3251 | | DAF | 1959A | B89 | 1204207 | 211 |
| LL | 3251 | | DAF | 1960A | B89 | 1204207 | 2111 |
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* * * RESTRICTED DATA * * *
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UNCLASS

UNCLASSIFIED

| CODE | TYPE | SUFX | MFG | ACTUAL SERIAL | DATCD | LOCATION | PARTNO | SUFX | TIME | DATE | BADGE | SEAL | BUDDY | TALLY |
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| LL | 1J/2J | AS | DAF | 409390 | B88 | 1204207 | 421757 | 00 | 1437 | 052689 | 07318 | | 07353 | |
| LL | 1J/2J | AS | DAF | 409400 | B88 | 1204207 | 421757 | 00 | 1437 | 052689 | 07318 | | 07353 | |
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| LL | 1M/2M | AS | | 6440 | | 1204207 | 422422 | 02 | 1427 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 6473 | | 1204207 | 422422 | 02 | 1433 | 052689 | 07318 | | 07353 | |
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| LL | 1M/2M | AS | | 6858 | | 1204207 | 422422 | 02 | 1426 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 6863 | | 1204207 | 422422 | 02 | 1426 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 7074 | | 1204207 | 422422 | 02 | 1432 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 7084 | | 1204207 | 422422 | 02 | 1427 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 7121 | | 1204207 | 422422 | 02 | 1433 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 7147 | | 1204207 | 422422 | 02 | 1427 | 052689 | 07318 | | 07353 | |
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| LL | 1M/2M | AS | | 7255 | | 1204207 | 422422 | 02 | 1433 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 7258 | | 1204207 | 422422 | 02 | 1433 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 7261 | | 1204207 | 422422 | 02 | 1433 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 7263 | | 1204207 | 422422 | 02 | 1433 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 7266 | | 1204207 | 422422 | 02 | 1433 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 7267 | | 1204207 | 422422 | 02 | 1433 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 7268 | | 1204207 | 422422 | 02 | 1433 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 7269 | | 1204207 | 422422 | 02 | 1433 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 7277 | | 1204207 | 422422 | 02 | 1427 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 7301 | | 1204207 | 422422 | 02 | 1433 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 7321 | | 1204207 | 422422 | 02 | 1427 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 7407 | | 1204207 | 422422 | 02 | 1433 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 7449 | | 1204207 | 422422 | 02 | 1432 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 7467 | | 1204207 | 422422 | 02 | 1432 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 7474 | | 1204207 | 422422 | 02 | 1427 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 7487 | | 1204207 | 422422 | 02 | 1432 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 7498 | | 1204207 | 422422 | 02 | 1426 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 8024 | | 1204207 | 422487 | 03 | 1434 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 8026 | | 1204207 | 422487 | 03 | 1434 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 8028 | | 1204207 | 422487 | 03 | 1434 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 8030 | | 1204207 | 422487 | 03 | 1434 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 8033 | | 1204207 | 422487 | 03 | 1434 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 8034 | | 1204207 | 422487 | 03 | 1434 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 8039 | | 1204207 | 422487 | 03 | 1434 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 8042 | | 1204207 | 422487 | 03 | 1434 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 8045 | | 1204207 | 422487 | 03 | 1434 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 8145 | | 1204207 | 422487 | 03 | 1427 | 052689 | 07318 | | 07353 | |
| LL | 1M/2M | AS | | 8152 | | 1204207 | 422487 | 03 | 1427 | 052689 | 07318 | | 07353 | |

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C-O-N-F-I-D-E-N-T-I-A-L

DERIVATIVE CLASSIFIER
DATE 05/26/89
NAME M. F. KEELER
TITLE SS ACCOUNTABILITY SUPERVISOR

UNCLASSIFIED

UNCLASSIFIED

| CODE | TYPE | SUFX | MFG | ACTUAL SERIAL | DATCD | LOCATION | PARTNO | SUFX | TIME | DATE | BADGE | SEAL | BUDDY | TALLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LL | 42254 | 7 | | 10179 | | 1204207 | 422547 | 00 | 1440 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10182 | | 1204207 | 422547 | 00 | 1442 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10195 | | 1204207 | 422547 | 00 | 1428 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10200 | | 1204207 | 422547 | 00 | 1439 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10202 | | 1204207 | 422547 | 00 | 1428 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10214 | | 1204207 | 422547 | 00 | 1440 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10219 | | 1204207 | 422547 | 00 | 1442 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10222 | | 1204207 | 422547 | 00 | 1439 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10239 | | 1204207 | 422547 | 00 | 1436 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10242 | | 1204207 | 422547 | 00 | 1428 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10267 | | 1204207 | 422547 | 00 | 1440 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10276 | | 1204207 | 422547 | 00 | 1428 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10294 | | 1204207 | 422547 | 00 | 1430 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10302 | | 1204207 | 422547 | 00 | 1439 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10309 | | 1204207 | 422547 | 00 | 1430 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10320 | | 1204207 | 422547 | 00 | 1441 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10323 | | 1204207 | 422547 | 00 | 1439 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10330 | | 1204207 | 422547 | 00 | 1441 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10333 | | 1204207 | 422547 | 00 | 1428 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10345 | | 1204207 | 422547 | 00 | 1430 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10351 | | 1204207 | 422547 | 00 | 1442 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10354 | | 1204207 | 422547 | 00 | 1438 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10362 | | 1204207 | 422547 | 00 | 1438 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10370 | | 1204207 | 422547 | 00 | 1439 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10376 | | 1204207 | 422547 | 00 | 1437 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10382 | | 1204207 | 422547 | 00 | 1430 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10399 | | 1204207 | 422547 | 00 | 1439 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10402 | | 1204207 | 422547 | 00 | 1440 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10404 | | 1204207 | 422547 | 00 | 1430 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10413 | | 1204207 | 422547 | 00 | 1437 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10416 | | 1204207 | 422547 | 00 | 1442 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10423 | | 1204207 | 422547 | 00 | 1438 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10426 | | 1204207 | 422547 | 00 | 1428 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10437 | | 1204207 | 422547 | 00 | 1440 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10444 | | 1204207 | 422547 | 00 | 1441 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10455 | | 1204207 | 422547 | 00 | 1430 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10458 | | 1204207 | 422547 | 00 | 1439 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10462 | | 1204207 | 422547 | 00 | 1441 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10481 | | 1204207 | 422547 | 00 | 1430 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10486 | | 1204207 | 422547 | 00 | 1436 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10490 | | 1204207 | 422547 | 00 | 1439 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10502 | | 1204207 | 422547 | 00 | 1441 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10506 | | 1204207 | 422547 | 00 | 1442 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10516 | | 1204207 | 422547 | 00 | 1429 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10539 | | 1204207 | 422547 | 00 | 1442 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10541 | | 1204207 | 422547 | 00 | 1430 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10546 | | 1204207 | 422547 | 00 | 1428 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10550 | | 1204207 | 422547 | 00 | 1437 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10556 | | 1204207 | 422547 | 00 | 1440 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10559 | | 1204207 | 422547 | 00 | 1429 | 052689 | 07318 | | 07353 | |
| LL | 42254 | 7 | | 10562 | | 1204207 | 422547 | 00 | 1440 | 052689 | 07318 | | 07353 | |

1 WR

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C-O-N-F-I-D-E-N-T-I-A-L

DERIVATIVE CLASSIFIER
DATE 05/26/89
NAME M. F. KELLER
TITLE SSA ACCOUNTABILITY SUPERVISOR

UNCLASSIFIED

Redacted VERSION

Total Reservoirs on line = 78

With Squib Valves = 39

Without Squib Valves = 39

Locations of Reservoirs with valves -

| | | |
|---|---|---|
| 12-99 | B5 | - 5 ea |
| 12-84 | B8 | - 2 ea |
| 12-84 | B13 | - 5 ea |
| 12-84 | B15 | - 2 ea |
| 12-98 | B1 | - 2 ea |
| 12-26 | B28 | -22 ea |

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PAGE 1
DAY
DATE

Line Area

INVENTORY REGISTER

| TIME | NAME | BLDG. | BAY | PROG. | SERIAL NO. | REMARKS |
|---|---|---|---|---|---|---|
| | | 104 | 5 | 88 | 10031 | 3T Assemblies |
| | | | | | 10048 | new - no valu |
| | | | | | 10258 | Waiting for Assy |
| | | | | | 10285 | |
| | | | | | 10406 | |
| | | | | | 10472 | |
| | no | | | | 10513 | |
| | | | | | 10565 | |
| | | | | | 10636 | |
| | | | | | 10709 | |
| | | | | | 10730 | |
| | | | | | 10808 | |
| | | | | | 10914 | |
| | no | 104 | 9 | 56 | 536983 | 1508 - for assy new |
| | No | 99 | 4 | 80 | 6347 | 1K71 - disassembl |
| | | | | | 6382 | waiting for reassemb |
| | | 99 | 5 | 61 | 2749 - New | 1H67/2H68 assemb |
| | | | | | 2833 | |
| | yes | | | | 2888 | disassembled |
| | | | | | 5281 | waiting for reassem |
| | | | | | 5319 | |

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DERIVATIVE CLASSIFIER E. Kavenpor
(NAME)
Prod Control Sup
(TITLE)

INVENTORY REGISTER

| TIME | NAME | BLDG. | BAY | PROG. | SERIAL NO. | REMARKS |
|---|---|---|---|---|---|---|
| | Yes | 84 | 8 | 83 | 4300 | 3251/3503 - new |
| | | | | | 4579 | ↓ ↓ |
| | | 84 | 13 | 61 | 10801 | 1M72/2M83 - New |
| | | | | | 10885 | ↓ ↓ |
| | Yes | | | | 10900 | |
| | | | | | 10950 | |
| | | | | | 11030 | ↓ ↓ |
| | Yes | 84 | 15 | 61 | 8095 | 1M72/2M74 - New |
| | | | | | 8314 | ↓ ↓ |
| | | 64 | 1 | 68 | 9286B | 2659B - disassembl |
| | No | | | | 9456B | ↓ ↓ |
| | | | | | 9521B | |
| | No | 64 | 2 | 70 | 2652 | 3201 Disassemble |
| | | | | | 304158 | 3202 ↓ |
| | No | 64 | 3 | 83 | 6375 | 3251 Disassembled |
| | | | | | 6385 | 3503 ↓ |
| | No | 64 | 7 | 70 | 9530 | 3203 Disassembl |
| | Yes | 98 | 1 | 61 | 6452 | 1M72/2483 Disass |
| | | | | | 10528 | ↓ ↓ |
| | ? — | 44 | 1 | | | |



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NAME
(TITLE)

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PAGE 3
DAY
DATE

INVENTORY REGISTER

| TIME | NAME | BLDG. | BAY | PROG. | SERIAL NO. | REMARKS |
|---|---|---|---|---|---|---|
| | yes | 26 | 28 | 28 | 412352 | 1A42 - Disassemble |
| | No | | | | 433081 | |
| | yes | | | | 445507 | |
| | No | | | | 475997 | |
| | yes | | | | 533780 | ↓ ↓ |
| | Yes | | | 44 | 303382 | 1C20 - Disassemble |
| | Yes | | | | 358961 | |
| | Yes | | | | 406137 | |
| | yes | | | | 458046 | |
| | No | | | | 458429 | |
| | yes | | | | 466403 | ↓ |
| | Yes | | | ~~RC38~~ 44 | 406017 | 1C38 |
| | Yes | | | | 460112 | |
| | Yes | | | | 465841 | ↓ |
| | yes | | | 69 | 207430 | 1J25 |
| | yes | | | | 307075 | |
| | Yes | | | | 309542 | |
| | yes | | | | 407369 | |
| | yes | | | | 409940 | ↓ |
| | No [redacted] | | | 61 | 10899 | 1M72/2M83 |
| | yes | 5 | | | 1220 | 1H69/2H70 |

1836

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DERIVATIVE CLASSIFIER
(NAME) Prod Control Sup
(TITLE)

DOE F 1325
(3-83)

Exception to SF 14, Approved by NARS, June 1978

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DEPARTMENT OF ENERGY

**TELECOMMUNICATION MESSAGE**

*(See reverse side for instructions.)*

2. MESSAGE CONTAINS WEAPON DATA?
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☐ YES ☐ NO

3. USE WHEN REQUIRED
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| ACTION: | ☐ Routine | ☒ Priority | ☐ Immediate | ☐ FLASH | |
| INFO: | ☐ (6 Hrs.) | ☐ (3 Hrs.) | ☐ (30 Mins.) | ☐ (ASAP) | |

5. TYPE OF MESSAGE
("X" appropriate box)
☒ Single Address
☐ Multiple Address
☐ Title Address
☐ Book Message

FOR COMMUNICATION CENTER USE
MESSAGE IDENTIFICATION
NR: DTG: Z

6. FROM
USDOE
P. M. RAMEY
AMARILLO, TX

7. OFFICIAL BUSINESS (TIME) A.M. / P.M.
(Signature of authorizing official)

8. DATE 5/23/89

9. TO
USDOE, STEVE GUIDICE, AL EMERGENCY OPERATIONS CENTER
ALBUQUERQUE, NM

CONFIDENTIAL/ DADR.

COMMUNICATION CENTER ROUTING
69 69
Sent 1335 GC

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United States Government UNCLASSIFIED Department of Energy

# memorandum

ALBUQUERQUE OPERATIONS
AMARILLO AREA OFFICE

DATE:

REPLY TO
ATTN OF: AAO:GWJ

SUBJECT: Assembly Cell 12-44-1 Inventory

TO: Steve Guidice, AL Emergency Operations Center

Cell 1 currently contains

- The tritium release occurred with this unit. Mechanical disassembly was completed with the post-incident removal of the reservoir and valve assembly on May 19. Special procedures are being developed to (a) decontaminate and ship the reservoir/valve assembly to Los Alamos in a UC 609 shipping container, (b) complete the nuclear disassembly, and (c) decontaminate and ship the to Los Alamos in a 2030-1B container.
- Mechanical disassembly is completed. The nuclear assembly is currently on the uncasing press with a . The reservoir associated with this unit remains in the cell.
- - Mechanical disassembly is completed. The nuclear assembly with a is waiting for the uncasing press. The reservoir associated with this unit was removed from the cell prior to the tritium release.

There are seven additional that were being staged in Cell 1 at the time of the tritium release. A decision will need to be made on whether to return these pits to Rocky Flats or Los Alamos following decontamination at Pantex. We are discussing options and decontamination requirements with the Rocky Flats Area Office.

There is a total of of high explosive (HE) in cell 1.

We believe this HE can be disposed at Pantex by open air burning following decontamination.

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AAO Security Mgr

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There are several boxes of disassembled inert components. We will explore the feasibility of shipping these components as low level radioactive waste to the Nevada Test Site.

A complete decontamination plan for the facility, tooling, and components is being developed.

P. M. Ramey
Pantex EOC

NEW DATA COLLECTED ON SUNDAY 5/21/89 AND MONDAY 5/22/89 INDICATED CONTAMINATION SWIPE DATA EXCEEDING 1000 DPM/100CM$^2$. IT HAS BEEN NECESSARY TO ESTABLISH NEW CONTROLLED AREAS BEYOND THE BOUNDARIES OF 12-44 CELLS 1, 2 AND 3. IT IS OUR UNDERSTANDING THAT CONTROL POINTS FOR THE TEMPORARY RADIOLOGICAL CONTROL AREA HAVE BEEN ESTABLISHED AT RAMP ACCESS POINTS FROM [illegible]-26 AND 12-44-4 CELL.

[illegible]UMENTED CONTAMINATION CONTROL MEASURES ARE NEEDED FOR THESE CONTROL POINTS TO ASSURE THAT THE CONTAMINATION IN THE UNCONTROLLED REGION DOES NOT EXCEED 1000 DPM/100 CM$^2$ PER DOE ORDER 5480.11. THE FOLLOWING SPECIFIC REQUIREMENTS ARE ADDED:

1. PROVIDE SWIPE DATA TAKEN IN THE 12-44-4, 12-49 AND 12-42 AREAS THAT ESTABLISH THE CONTAMINATION IS NOT MORE WIDELY DISTRIBUTED BEYOND THE CURRENTLY ESTABLISHED CONTROL POINTS.

2. NOTIFY AL OF ANY NEED TO EXPAND THE TEMPORARY RADIOLOGICAL CONTROL AREA BEYOND THE CONTROL POINTS NOTED ABOVE.

3. PROVIDE A DECONTAMINATION PLAN TO AL FOR REVIEW THAT ADDRESSES CLEAN-UP OF THE TEMPORARY RADIOLOGICAL CONTROL AREA TO BELOW 1000 DPM/100CM$^2$ AND ALARA, IN ORDER TO RESUME NORMAL USE OF THIS AREA.

4. ASSURE CONTINUED BIOASSAY SAMPLING OF WORKERS IN THE TEMPORARY CONTROLLED AREA AND IMMEDIATE OUTLYING AREAS TO PROVIDE A RECORD OF POTENTIAL EXPOSURES TO TRITIUM.

CONFIDENTIAL/RD/WD/NARR. SUBJECT: PANTEX OPERATIONAL STATUS (MAY 22, 1989)

. DISPOSAL - LOS ALAMOS HAS STATED THAT THESE OPERATIONS COULD CONTINUE WITHOUT INTERRUPTION (REFERENCE: TWX FROM C.B. BANKS, WX-5, DATED MAY 20, 1989).

. LLNL PHYSICS PACKAGE - ALL OF THE LLNL DETONATORS ARE HIGH ENERGY DEVICES THAT ARE NOT STATIC SENSITIVE (REFERENCE: TWX FROM LEE MACLEAN DATED MAY 19, 1989). WE WOULD SPECIFICALLY PLAN TO PERFORM OPERATIONS ON THE FOLLOWING SYSTEMS:

| | |
|---|---|
| W56 MC1690-2 | SLT REBUILD |
| W62 MC2521/22 | JTA |
| W68 MC2354 | JTA |
| W70 MC2059 | JTA |
| W82 MC4095/97 | TYPE UNIT |
| W87 MC3739/40 | JTA |

NO ASSEMBLY OPERATIONS WOULD BE CONDUCTED BEYOND THE PHYSICS PACKAGE.

. JTA RESIDUE (ALL SYSTEMS)- JTA RESIDUES HAVE ALREADY BEEN THROUGH EXTREME FUNCTIONAL ENVIRONMENTS, AND WE BELIEVE CONSIDERATION SHOULD BE GIVEN TO RELEASING THESE OPERATIONS.

(B) SURFACE CONTAMINATION DOES NOT EXCEED 1000 DPM/100CM$^2$; HOWEVER, YOU MUST PROMPTLY NOTIFY AL IF LEVELS EXCEED THE HIGHEST LEVEL TAKEN IN THE SURVEY LAST NIGHT (I.E., ~85 DPM/100CM$^2$)

PLEASE PROVIDE BOTH AIR AND SURFACE CONTAMINATION DATA ON CELLS 1, 2, 3 AS SOON AS POSSIBLE.





MAY 20 '89 14:52 ALBUQ EOC

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WEAPON STATUS

THE TUBE BETWEEN THE TRITIUM RESERVOIR/VALVE AND THE PIT WAS CUT AND CRIMPED OFF USING STANDARD TOOLS AND TECHNIQUES. THE RESERVOIR/VALVE WAS REMOVED AND PLACED IN A SPECIAL LOS ALAMOS CONTAINER THAT REMAINS IN THE CELL. WE BELIEVE THE PIT SIDE OF TUBE DID NOT COMPLETELY SEAL AND WE ARE EVALUATING ADDITIONAL PROCEDURES TO ACHIEVE A POSITIVE SEAL. A POSITIVE SEAL IS DESIRABLE BEFORE ANY FURTHER WEAPON DISASSEMBLY AND CLEANUP IS ATTEMPTED.

FACILITY STATUS

ALL PLANT PERSONNEL WILL CONTINUE TO REPORT TO WORK AS NORMAL. ALL WORK AREAS ARE OPEN EXCEPT ASSEMBLY CELLS 1, 2 AND 3. CELL 1 CONTAINS THE WEAPON AND THE CORRIDOR IS SEALED OFF AND MONITORED IN FRONT OF THE CELL. ACCESS TO ADJACENT CELLS 2 AND 3 IS TEMPORARILY RESTRICTED AS AN EXTRA PRECAUTION.

PERSONNEL STATUS

ONLY ONE INDIVIDUAL, THE ONE STANDING CLOSEST THE WEAPON, RECEIVED AN EXPOSURE SIGNIFICANT ENOUGH TO WARRANT CONTINUED MEDICAL ATTENTION. HIS URINE ANALYSIS READINGS PEAKED AT 460 MICROCURIES/LITER ON MAY 18; SUBSEQUENT READINGS WERE DIMINISHING. HIS ESTIMATED EXPOSURE FROM THIS INCIDENT IS PROJECTED TO BE ABOUT 2 REM. (2 REM IS THE PANTEX STANDARD, 5 REM IS THE ALLOWED DOE STANDARD) HIS STATUS AND FLUID INTAKE ARE CAREFULLY MONITORED BY THE PLANT PHYSICIAN.

WEAPON PRODUCTION/RETIREMENT STATUS

THE WEAPON LABORATORIES HAVE BEEN ASKED TO REVIEW THE STATIC SENSITIVITY OF THEIR VALVE INITIATORS. BASED ON THEIR INPUT, AL WILL RELEASE INDIVIDUAL WEAPON TYPES FOR CONTINUED PANTEX ASSEMBLY/DISASSEMBLY OPERATIONS. NORMAL OPERATIONS WERE RESUMED ON THE [redacted] AND [redacted] ON THE SATURDAY SWING SHIFT. AL RELEASES WILL CONTINUE AS CERTIFICATIONS ARE RECEIVED FROM THE LABORATORIES. PROCEDURAL CHANGES MAY BE NECESSARY ON CERTAIN WEAPONS AS A RESULT OF THIS INCIDENT.

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