



National Security Campus Preproposal Conference & Site Tour



Ground Rules

- The RFP is the controlling document; nothing said today changes the RFP. Only a formal, written RFP amendment can change the RFP.
- If you've heard something that's inconsistent with the RFP, please raise the issue in an email to SEB4@nnsa.doe.gov .
- Only written questions will be accepted. Though some questions might be answered today, all questions will be answered via the NSC Competition website.

Ground Rules (Cont.)

- Communication will be one-way, except where clarification is requested and the Government provides clarification
- No classified information will be presented
- During the tour it may be difficult to hear in some locations. Request that any side discussions be avoided.

Agenda

- Registration 9:00 a.m.
- Opening Remarks 9:30 a.m.
- NSC Mission/Programs 9:45 a.m.
- RFP Q&A Highlights 10:30 a.m.
- Written Questions Submitted 10:45 a.m.
- Tour Bannister Facility 11:00 a.m.
- Adjourn for Lunch 11:30 a.m.
- NSC Check-in & Badging 1:00 p.m.
- Site Tour 1:30 p.m.
- Adjourn 3:30 p.m.

Bidders Conference - National Security Campus (KCP & NM)



Mark Holecek, Manager
Kansas City Field Office



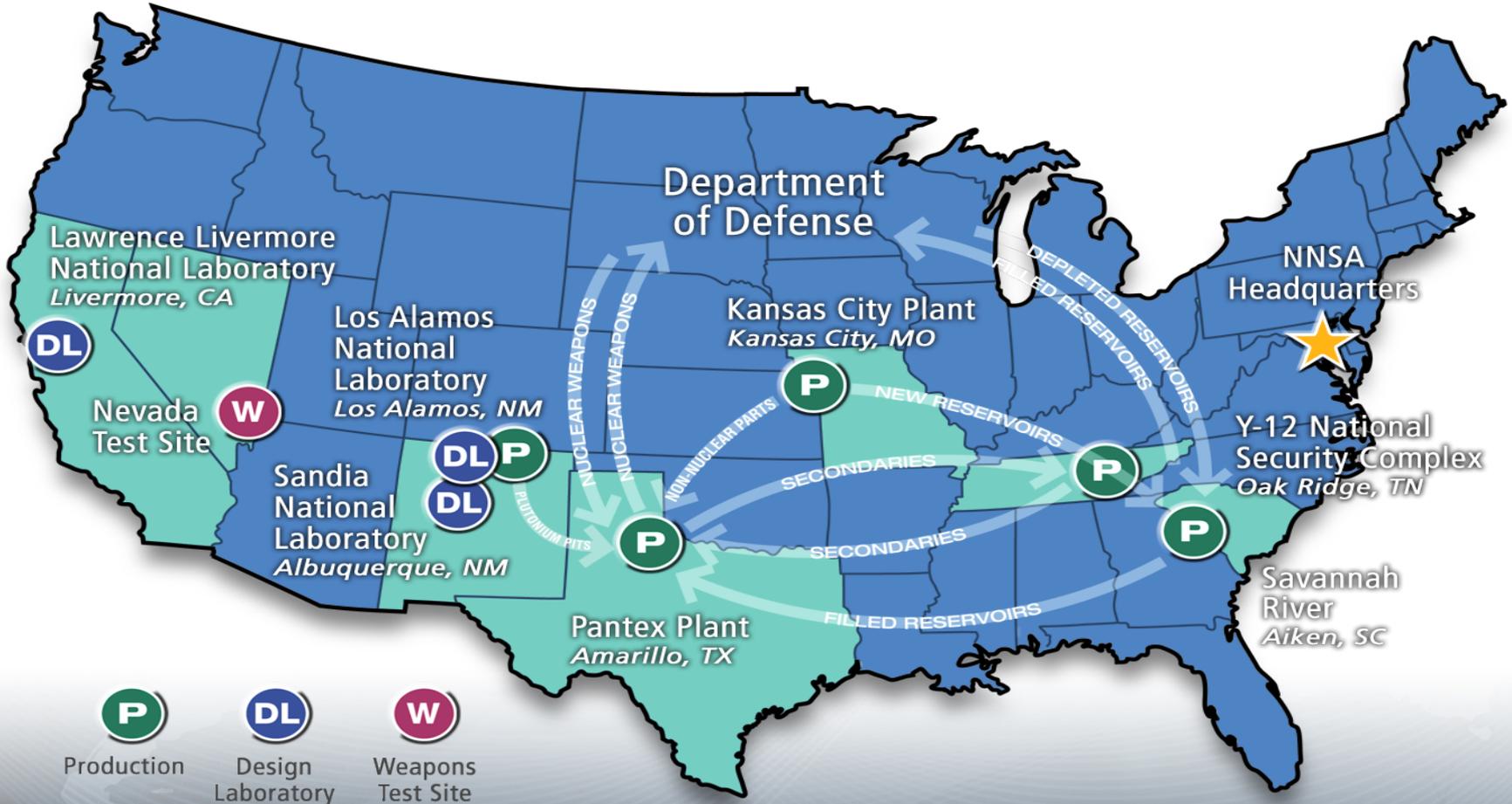
I.C.E.

- Internal Sheltering & External Sheltering
 - Follow KCP personnel
- Q not required for plant tour displays and hallways
 - Some areas may not be able to be viewed by non-cleared
 - Walk on outside parts of aisle leaving middle for vehicles
 - Use caution for doors opening
 - No cell phones etc. in factory (there are lockers available at turnstiles)

Agenda

- Background
- Transformation
- KCFO
- Oversight Model
- Defense Programs
- NSMC
- NSC-NM
- ES&H
- Security
- Operations
- Disposition

NNSA Locations



Kansas City Plant History

Bannister 1920's



Bannister 2014



National Security Campus 2010

P-Tn CENTERPOINT PROPERTIES / ZIMMER / NSC
AUGUST 19, 2010 - AERIAL VIEW TO NORTH - WESTERN PORTION OF SITE
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National Security Campus 2014

P-Tn CENTERPOINT PROPERTIES / ZIMMER / NSC
JUNE 3, 2013 - AERIAL VIEW TO NORTH - WEST PORTION OF SITE
20130603AB.JPG [13115-D6613] NSC15071 <> © P-Tn.com 913-384-9369



The Transformation Continues!

Secure Supply Chain Services

Electrical Capabilities

RF
High Voltage
Pulsed Power
Process Automation
Telemetry
Embedded Systems
High Density Interconnects
Microelectronics
Semiconductors
PWASMT
Lasers & Optics

Mechanical Capabilities

Miniature Assembly
Additive Manufacturing
Plastics Products
Optics
Environmental Testing
Non-destructive Tests
Rapid Prototyping,
Vehicle Technologies

Materials Science Capabilities

Engineered Materials
Analytical Chemistry
Materials Characterization
Polymer Production

Software & Simulation Capabilities

Simulation & Modeling
(physics-based)
Simulation & Modeling
(facilities)
IT Technical Review Board
HPC
Engineering Software
Systems

Test Equipment & Measurement Capabilities

Sensors & Detectors
Metrology
Calibration
Mechanical Inspection
Technologies
Test Equipment



Products & Capabilities

Three Unique Integrated Manufacturing Factories...

ELECTRICAL

- Firing & arming systems - Miniature fuzes/safing devices
- Radars
- Timers & programmers
- Telemetry
- Signal generators
- Cables – RF, flex, multiwire
- Printed wiring boards
- Field test equipment
- Microelectronics systems - LTCC, thick film & thin film
- Laser and fiber optic systems



MECHANICAL

- Coded switches
- Squib valves
- Case parts
- Gas reservoirs
- Inertial sensing devices
- Battery actuators
- Structural supports
- Handling equipment
- Secure trailers
- Special containers



MATERIALS

- Composite structures
- Compression parts
- Cushions
- Metal filled polymers
- Insulators
- Radomes
- Shock mitigators
- Molded rigid plastics
- Desiccants
- Hydrogen getters
- Coatings



Uniqueness of Site

- National Security Campus is not Federally owned.
- Facility maintenance is performed by Developer
- Produces about 85% of the parts for nuclear weapons
- Make vs. buy is approximately 30% make and 70% buy.
- No special nuclear material at site
- Co-location of Site Office and M&O
- Transparency of operations
- KCFO involvement in development of planning
- ES&H hazards are common in industry
- Bannister Complex transfer planned for FY16

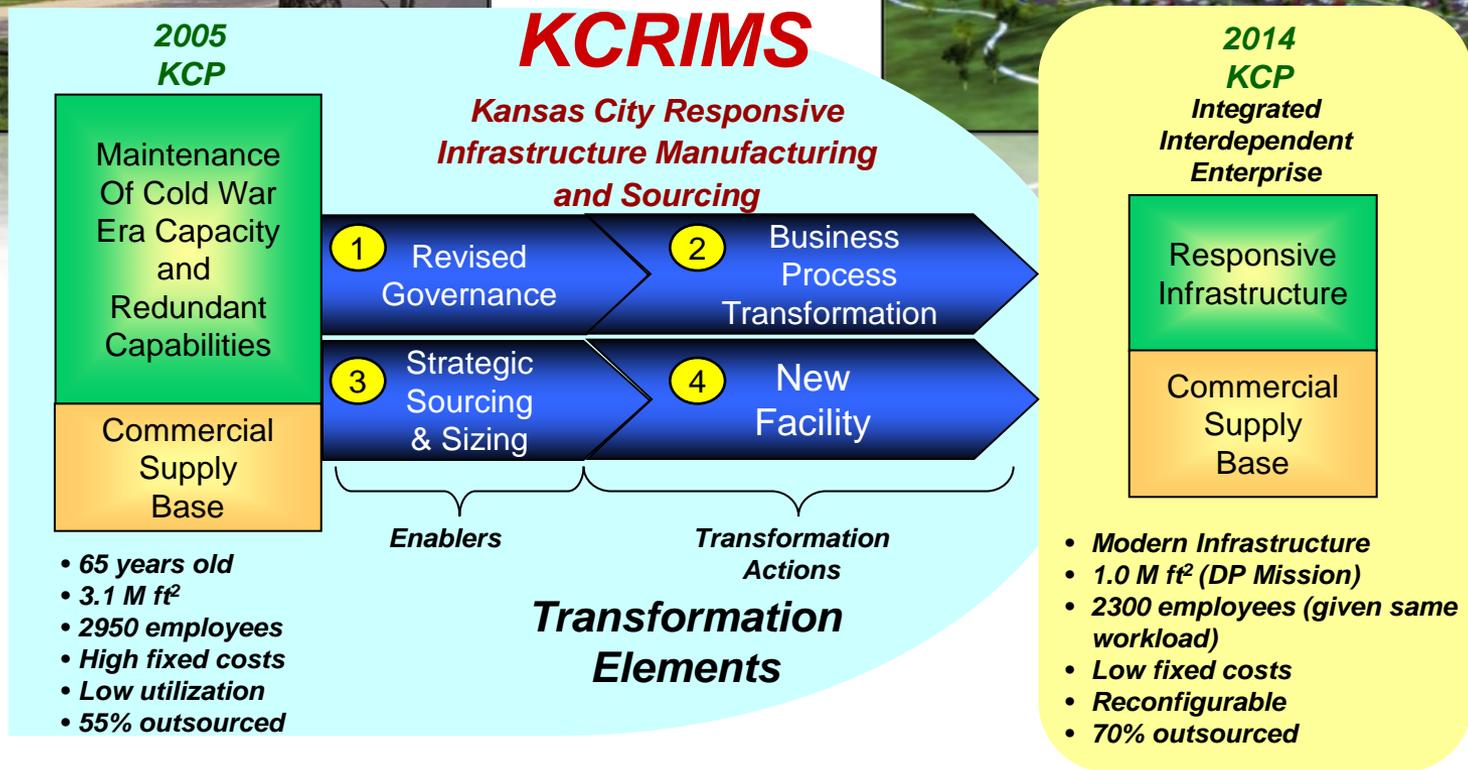
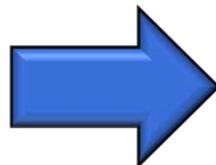
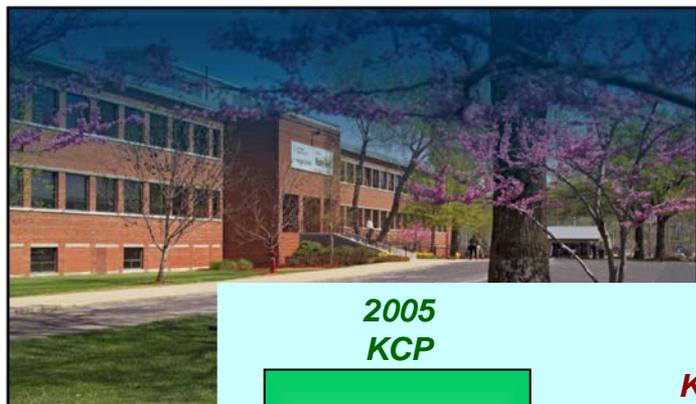
Transformation



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Kansas City Field Office



Transformation Plan Elements



KCRIMS reduces footprint by over 50% and operational costs by 25%

Kansas City Responsive Infrastructure Manufacturing and Sourcing (KCRIMS) Project

- Campus fully accepted and move is **Complete!**
 - Initiated in 2006 and culminated July 2014
 - National Secure Manufacturing Center (NSMC) Global Security work scope (i.e. WFO) mission also relocated
- Supporting production requalification and transitioning to steady state production (Only a few parts will need requalification after FY15)
- Developing Bannister Disposition Strategy

***Largest Relocation Project in North America
On Schedule – Under Budget – Deliveries met – Safe – Secure***



Kansas City Field Office



Mark Holecek, Manager
Kansas City Field Office



KCFO Leadership



Mark Holecek
Manager
Kansas City Field
Office



Albert Guarino
Legal
Counsel



Jeff Shoulta
Deputy Manager



Mike Roberts
Assistant Manger,
Office of
Stockpile
Management



Sherry Kinsey-Cannon
Assistant Manager,
Business and
Security Operations



Vacant
Assistant Manager,
Office of
Operations

Kansas City Field Office Roles and Responsibilities

- Provide day to day oversight for contractor operations to ensure mission success
- Ensure compliance with laws and regulations
- Work closely with the M&O contractor to ensure safe, secure and cost effective performance
- Oversee contractor's budget process and funding priorities
- Interact with Federal, State and Local governments
- Remain responsible and accountable to stakeholders
- Execute the NNSA and other customer missions
- Product Acceptance for major assemblies (delegated for others)

What has made the Kansas City Model Successful - Partnership



Kansas City Oversight Model

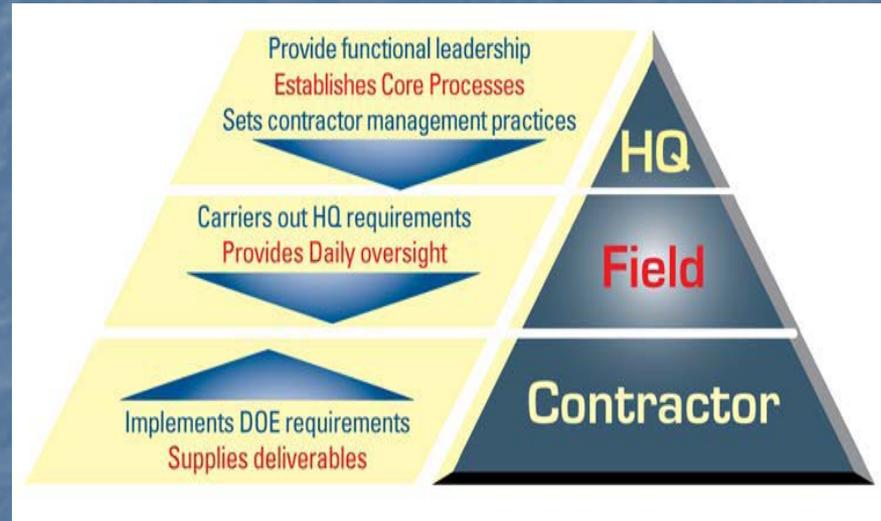
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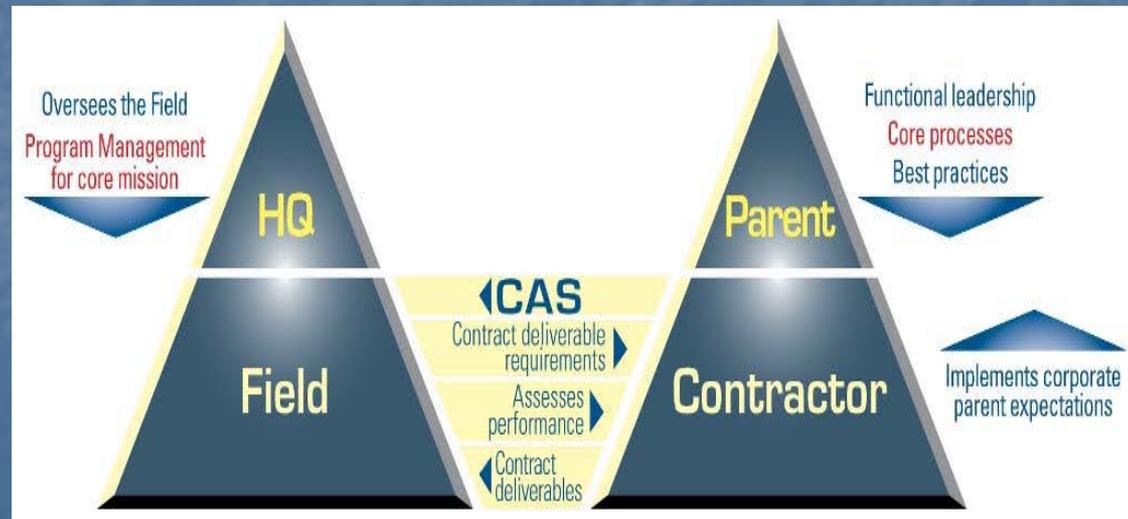


Oversight Plan Model

DOE O 226.1A Oversight Model



KCSO Oversight Plan Model





Oversight Plan

KCSO Concept

- Change culture within KCSO
- Shift to “focused” oversight by applying resources to “right” activities
- Revise the KCP Oversight model based on:
 - Industrial standards
 - Third party oversight
 - KCSO systems oversight

Validation = federal assurance of contractor performance



Oversight Plan

KCSO Process

- Reduced set of operating requirements
- Identify corporate management processes in lieu of DOE/NNSA processes
- Site office empowered to control audit findings
- Continuing expectation for high performance
 - Meeting product schedule
 - Meeting product specifications
 - Cost management
 - Asset Management
 - Meeting contract standards including ES&H and National Security



Oversight Plan

Contract Changes

- Limited List of Operating Requirements
- List of deliverables
- Systems versus transactions oversight
- External oversight including corporate/third party
- Change control process for new and revised directives

Defense Programs



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Kansas City Field Office



Maintain and evolve a responsive infrastructure for non-nuclear component sourcing in support of the nuclear stockpile life-cycle

- **Directed Stockpile Work (DSW)**
 - LEPs
 - Surveillance & Rebuilds
 - Trainers and Simulators
 - Dismantlement and Disposal
 - Maintenance and Life-Cycle
 - Inventory
- **Technology Readiness**
- **Facility and Infrastructure Readiness (RTBF)**
- **Secure Transportation**



Approximately 85% of all stockpile components provided by the KCP²²

Ongoing Production – W76-1 LEP

- **W76-1 Warhead:**
 - Delivered via USN Ohio Class SSBN on the Trident II Sea Launched Ballistic Missile
 - First fielded in 1970's
- **Life Extension Program objective: Nuclear refurbishment and AF&F nuclear safety upgrade**
- **KCP program scope:**
 - Exercising all elements of the factory: Electrical, Mechanical, Materials
 - Produce new Integrated Arming, Fuzing & Firing System (AF&F), Gas Transfer System, Specialty Materials, and other non-nuclear components
 - Reaccept/reprocess select legacy items for re-use
 - Produce new telemetry package & ancillary items
- **KCP program value: (KCP funding from FY01 thru end of production FY19)**
 - NNSA funding \$1.02B
 - Navy direct funding \$180M
- **Period of Performance:**
 - KCP FPU FY07
 - Production through mid-FY19



Emerging Program – B61-12 LEP



- **B61 Bomb:**
 - Flown on USAF: F-16C/D, F-15E, B-2A, F-35 NATO: F-16A/B & PA-200 (Tornado)
 - First fielded in 1960's
- **Life Extension Program objective: Nuclear refurbishment and Mod consolidation of B61- 3, 4, 7, 10 bombs**
- **KCP program scope:**
 - Produce new Nose, Radar, Gas Transfer System, Firing System, Safety Mechanisms, Preflight Case, Weapon Control Unit, and other non-nuclear components
 - Reaccept select legacy items for re-use
 - Produce new telemetry package & ancillary items
 - Implement Earned Value Program Controls
 - Build Type 3C and 3E Trainers for the Air Force using AF funding
- **KCP program value: \$1.65B KCP funding from FY12 thru end of production**
- **KCP Period of Performance**
 - KCP FPU FY19
 - Production Through FY24



Emerging Program – W88 Alt 370 LEP

- **W88:**
 - Delivered via USN Ohio Class SSBN on the Trident II Sea Launched Ballistic Missile
 - RB FPU 1987
- **Alteration program objective: New AF&F and LAC to improve nuclear safety & extend life**
- **KCP program scope:**
 - New MC5000 AF&F to replace legacy MC3810 AF&F
 - New MC5032 LAC
 - Limited reacceptance / rebuild of legacy items to support Alteration
- **KCP program value from FY10 thru end of production**
 - NNSA funding ~\$420M
 - Navy direct funding ~\$195M
- **KCP Period of Performance**
 - KCP FPU FY19
 - Production Through FY24



Emerging Program – W87 AFA



- **W87 Warhead:**

- Used on Air Force Minuteman III ICBMs
- First fielded in 1980's
- Air Force provided original Arming & Fuzing Assy (AFA)

- **Program objective:**

- Replace existing AFA with NNSA-produced version
- New AFA is version of W88 ALT 370 to reduce AF costs

- **KCP program scope:**

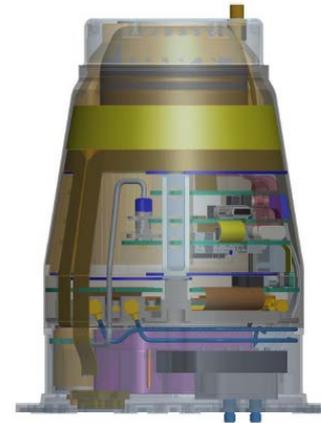
- Produce new AFA
- Baseline Complete: January 11, 2013
- Program Cost estimate for FY22 FPU completed May 2014
- KCP currently supporting Phase 6.3 activity (component development) thru FY14-15.

- **KCP program value: (AF funding from FY14 thru end of production FY29)**

- Air Force direct funding approx \$460M
- NNSA funding \$0 – purely DoD reimbursable activity

- **Period of Performance:**

- KCP FPU FY22; production thru FY29



National Secure Manufacturing Center



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NSMC Mission

- Department of Energy entity focused on secure government mission support
- Secure facility specializing in national security missions
- Provides quick-response products and services requiring technical expertise
- Provides quick-response products and services requiring technical expertise, built on resources and pedigree from the nuclear weapons complex
- Secure engineering solutions for special projects in support of national security



NSMC Capabilities

Electronics

Design and manufacture robust reliable custom electronics with quick response.

Mechanical

Design and manufacturing capabilities for products ranging from semi-conductors to large semi-trailers.



Engineered Materials

Design, develop and characterize materials and processes for products with unique requirements.

Testing and Analysis

Specialize in testing products to determine operational envelope.



Capabilities ranging from concept to fielded unit



National Security Campus New Mexico

National Security Campus, NM

Overview

200 Employees at 2 Locations

- Albuquerque, NM
- Los Alamos, NM

FY 2014 Budget: ≈ 55M

Facilities:

- Five collocated leased buildings containing approximately 121,000 gross square feet (55% manufacturing/warehouse and 45% office/laboratory)
- Operate NNSA owned Mobile Electrical Maintenance Facility on Kirtland AFB for NA-15 (approximately 6,000 gross square feet)
- Maintain and operate out of four NNSA owned buildings on Kirtland AFB for NA-40 (14,000 gross square feet)
- Minimum security and maintenance of legacy facilities at NC-135 on Kirtland AFB until dispositioned by NNSA (approximately 16.5 fenced acres with 27 temporary structures totaling approximately 52,000 gross square feet)

Secure Transportation (NA -15)



Vehicles

- Semis, Trailers, SUVs, Vans, Trucks
- Operational, Command, & Training Vehicles
- Secure Communications
- Production, Modifications, Refurbishments, Installations, & Maintenance
- Life Cycle & Depot Services



Agents

- Force-on-Force Training Exercises, Ranges, Adult Learning, Technical Documentation, Logistical Support



Other

- Web-Site Creation and Maintenance
- Command Center Maintenance
- Relay Station Maintenance

Nuclear Emergency Response (NA-40)

Search and Detect

- Specialty Equipment Production

Stabilization

- Equipment Production & Maintenance
- Equipment & Property Management
- Depot, Logistical, Web & Training Services
- Vehicle Procurement
- Staff Augmentation & Support

Render Safe

- Equipment Production & Maintenance
- Logistical & Web Services
- Response Team

Accident Response

- Equipment Maintenance

Consequence Management

- (None)

Forensics

- Communications Equipment



Work For Others (WFO):

Department of Defense

Department of Homeland Security

Private Aviation Industry

Environmental, Safety & Health



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Safety

Bannister:

- Fall Protection (building & equipment)
- Electrical Safety (including high voltage – Electrical Distribution)
- Machine Guarding/Power Presses
- Vehicle Safety
- Scaffolding (Building and equipment)
- Explosive Safety (1.3 and 1.4)
- Pressure Safety (plant systems and equipment)
- Hoisting and Rigging
- Ergonomics (office and industrial)
- PPE
- Asbestos (building and equipment)
- Fire Protection (DOE owned facility – facility and equipment)
- Confined Spaces (Utilities and equipment > 300 spaces)
- Emergency Management (Work with others on complex (GSA, Marines, IRS))
- Trailer production
- Medical Care Services (Work related injury/illnesses and wellness)

NSC:

- Fall Protection (equipment only)
- Electrical Safety (Equipment only)
- Machine Guarding/Power Presses
- Vehicle Safety
- Scaffolding (equipment only)
- Explosive Safety (1.3 and 1.4)
- Pressure Safety (equipment only)
- Hoisting and Rigging
- Ergonomics (office and industrial)
- PPE
- Asbestos (Limited pieces of equipment)
- Fire Protection (Leased Facility – Equipment only)
- Confined Spaces (equipment only < 12 spaces)
- Emergency Management (Work with building owner and GSA)
- Trailer production (NM)
- Medical Care Services (Work related injury/illnesses and wellness)

Industrial Hygiene

Bannister:

- Beryllium (building and equipment)
- Combustible Dust (old dust collectors)
- Respiratory Protection (~300 in program)
- Radiation Safety (past building contamination)
- Laser Safety
- Laboratory Safety
- Lead
- Temperature Extremes (many employees worked outside)
- Hearing Conservation (Powerhouses)
- Ventilation (each piece vented out roof)
- Roof work (crew on roof constant)
- Full service Plating facility
- Polymer and specialty chemical production

NSC:

- Beryllium (equipment only)
- Combustible Dust (new dust collectors)
- Respiratory Protection (~150 in program)
- Radiation Safety (equipment only)
- Laser Safety
- Laboratory Safety
- Lead
- Temperature extremes (few employees work outside occasionally)
- Hearing Conservation (no powerhouse)
- Ventilation – manifolded system)
- Roof work (no crew on roof)
- Limited surface treatment operations (eliminated cyanide containing materials)
- Polymer and specialty chemical production (new facility)

Environmental

Bannister:

- NPDES Permit
- Title V Permit
- RCRA Large Quantity Generator
- Industrial Wastewater – 1.3 million gallons per day treatment plant
- SPCC Plan (fuel and operational equipment)
- EPCRA 311/312/313
- RCRA Corrective Action Permit (legacy waste cleanup)
- PCB cleanup (three locations)

NSC:

- No Exposure Certification
- Basic Air Operating Permit
- RCRA Large Quantity Generator
- Industrial Wastewater (100,000 gallons per day treatment plant)
- SPCC Plan (operational equipment only)
- EPCRA 311/312/313

Security



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Security

- No Special Nuclear Material protection requirements
- Primary protection for Classified Information via Physical and Cyber means
- New/Modern concepts employed at NSC-KC and pending at NSC-NM
- BFC is enhanced property protection only

Operations



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M&O Ops & Maintenance

- Provide maintenance on production equipment
- Install new production equipment
- Rearrangement of existing production departments
- Security Systems
- Building Operations Center
- Communication Systems (telephone & radio)
- Utility Procurement

Developer O&M Within the Lease

- All maintenance of Building 1
- Maintenance of exterior grounds
- Buildings 2, 3, 4 and 5
 - Architectural – interior finishes, stairwells, walls, windows, doors, dock levelers, and roofs
 - Fire alarm, fire suppression, emergency notification & public address
 - Elevators Janitorial services
 - Pest control

Developer O&M Above Standard

- Developer O&M work that is not covered in lease
- Paid for with a RWA through GSA
- Mechanical systems for buildings 2, 3, 4, 5 and exterior grounds
- Electrical systems for buildings 2, 3, 4, 5 and exterior grounds
- Cleaning of production areas

Building Alteration Projects

- Projects under \$150k
 - Managed by NNSA M&O Contractor
 - Approved by GSA
- Projects over \$150k or projects that impact major infrastructure systems, work on roof, work in penthouses, or exterior wall penetrations
 - Managed by GSA
 - Work performed by Developer
 - Paid through RWA to GSA

Disposition

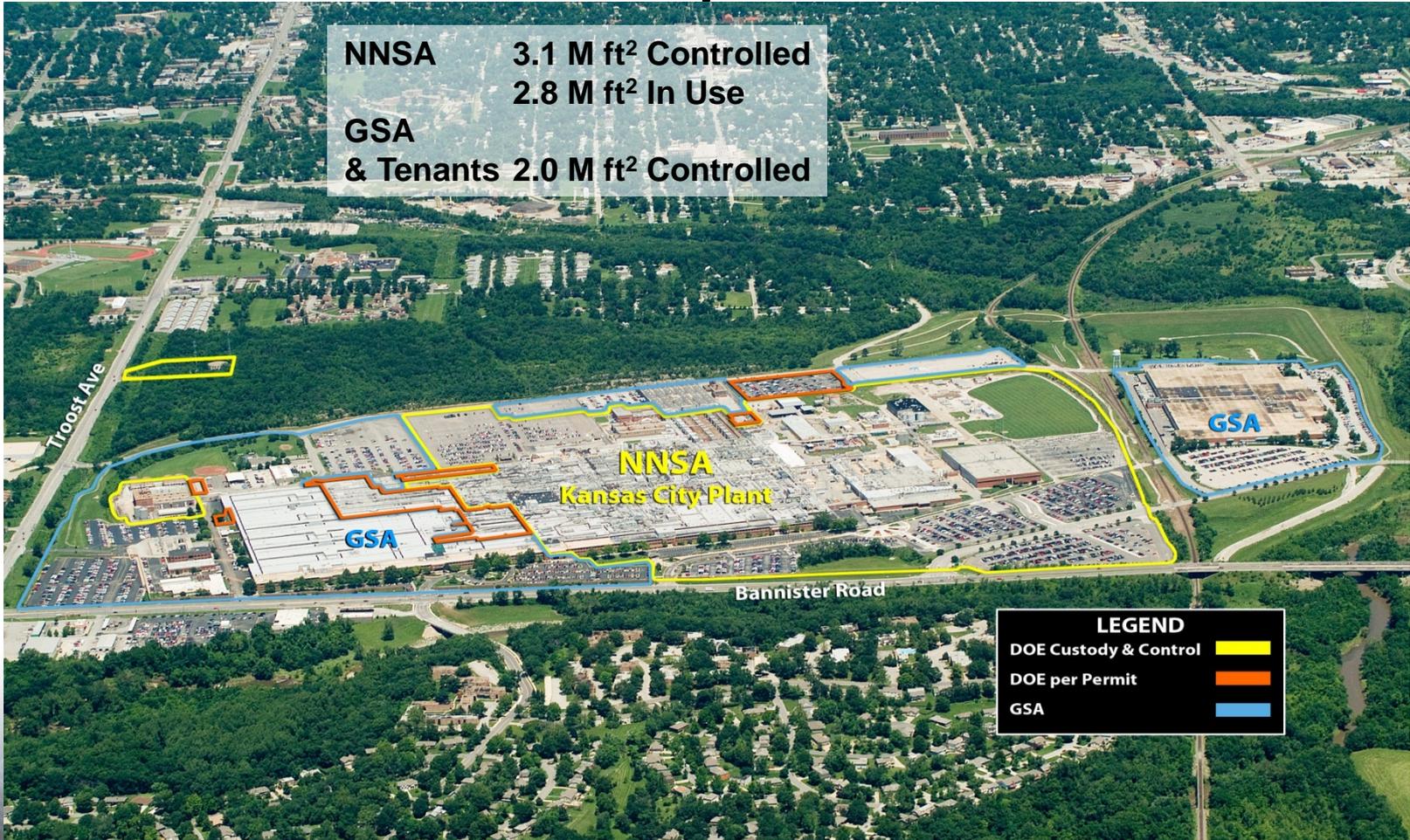


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Disposition of Bannister Federal Complex

NNSA	3.1 M ft ² Controlled
	2.8 M ft ² In Use
GSA & Tenants	2.0 M ft ² Controlled



Disposition/ Transfer Of Bannister

- Contract issued to CenterPoint Properties
 - contract signed September 2014
 - Characterization of site initiated and will continue into FY2016
 - Final deliverable is an executable Transfer Agreement (TA) to include terms of each party
- Current schedule anticipates transfer of excess real property out of the federal inventory by September 2016
- GSA property will be joined to NNSA prior to transfer
 - GSA will process NEPA for their property and issue an SF118 (identifying property as excess and available for transfer)
- M&O Contractor operating Bannister site and supporting NNSA's transfer activities.