Attachment LI: Line Item Funded Project Descriptions

(1) Facilities and Equipment for Responsive Manufacturing
(2) Specialty Materials Production Facility
(3) Replace Main Switchgear (FIRP Line Item)
Facilities and Equipment for Responsive Manufacturing

New capabilities, such as this machine to rapidly build prototypes from end use materials, are needed for manufacturing responsiveness.

High performance computing and visualization capabilities and connectivity need to be updated at four to five year intervals to enable rapid evaluation of new or revised processes and designs prior to manufacturing.

Scope: This project will provide facilities and equipment for nonnuclear responsiveness required for the future nuclear deterrent. It will provide upgrades and new capital facilities and equipment in strategic areas of nonnuclear manufacturing and information technologies.

Justification: To provide the responsiveness deterrent required in non-nuclear strategic areas which must be retained in-house, updates are required for facilities and equipment nearing or at end-of-life, and emerging new equipment and facilities must be obtained. Funding beyond traditional sources is needed to provide these capabilities.

Funding: Line Item: TEC $25,000,000
FY09: $ 1,000,000
FY11: $ 10,000,000
FY12: $ 14,000,000

The Kansas City Plant is operated and managed by Honeywell Federal Manufacturing & Technologies, LLC, for the NNSA.
Specialty Materials Production Facility

LINE ITEM

Scope: This project will replace the Polymer Production Facility (PPF) housed in the 50+ year old Building 15. The project includes construction of a new building and relocation, installation and prove-in of existing and new process equipment. It also includes demolition of the old facility upon successful completion of operational readiness.

Justification: This project is required to replace specialty chemical processing facilities and equipment that is nearing, or at end-of-life to ensure the NNSA mission is not jeopardized. These replacement and modernization improvements are needed to prevent failure caused by end-of-life facilities or equipment which support mission requirements for numerous programs including B61, W76, W80, W88, B83, and OST. This facility provides over 150 material formulations. These critical chemical formulations are required throughout weapon systems in components ranging from thermal batteries to neutron generators. Virtually all of the structural support foams and specialty adhesives and binders are produced in this facility. Materials are also produced for the DOD's Hellfire Warhead and the UK's Atomic Weapons Establishment.

Funding: Line Item; TEC, $54,500,000.

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<th>Fiscal Year</th>
<th>Budget Amount</th>
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<tr>
<td>FY09</td>
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<td>FY14</td>
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Replace Main Switchgear

Scope: Replace the West Switchgear with new equipment rated for at least 750MVA. The West Switchgear consists of four (4) 15KV, 2000amp frame breakers and twenty-six (26) 15KV, 1200amp frame breakers. Replace the outdoor switchgear enclosure.

Justification: The 30 year service life of the existing switchgear was reached in 1999 and is reflected in the FY03 Deferred Maintenance Baseline. Approximately eight miles of 13.8KV cables will reach the end of their service life in 2009. The ability to obtain repair parts is becoming difficult since the switchgear is obsolete and new replacement parts are no longer available. The potential for cable failures continues to place the plant at risk. The number and frequency of system failures will increase as the system components continue to age. Failure to replace the switchgear and cables is certain to impact production activity at KCP and the entire Federal Complex.

Funding: Line Item; TEC $15,585,000
FY09  $ 9,000,000
FY10  $ 6,000,000
FY11  $  565,000
Attachment FIRP: FY2007 - Funded Facilities and Infrastructure Recapitalization Program (FIRP) Project Descriptions

(17) Replace City Water System

(20) Replace Basement Chilled Water Piping

(21) Replace High Voltage Fire Alarm Panels Loop I & II

( ) Denotes FIRRS priority in Attachment A-4.
Replace City Water System

FACILITIES INFRASTRUCTURE RECAPITALIZATION PROGRAM (FIRP)

Scope: This project replaces the existing 18" underground incoming city water main from the northeast regulating station to the main building. Existing 12" and 8" underground branches from the 18" main will also be replaced. Replacement pipe will consist of polyethylene encased ductile iron.

Justification: The domestic water mains feeding the plant from the NE regulating station have undergone three (3) emergency repairs in the last year. Pressure regulators were installed to reduce the operating pressure as a temporary measure; however, it is believed that the lines are likely to break again even at the reduced operating pressure. These mains are over 40 years old and need to be replaced in their entirety, instead of continuing to repair them as leaks develop.

Funding: FIRP Expense; TEC $2,115,000
    FY05 $ 250,000 Design
    FY07 $1,865,000 Construction
Replace Basement Chilled Water Piping

Facilities Infrastructure Recapitalization Program (FIRP)

Scope: This project replaces chilled-water supply and return piping, isolation valves, strainers, insulation, and pipe hangers.

Justification: The existing mains are original piping and isolation valves and are in very poor condition. The system operated at modest mains on the factory floor.

Support: The project is divided into three distinct phases: the basement north of the N column line, the south end of the 44 support.

Future: This project replaces the chilled-water supply and return piping, isolation valves, strainers, insulation, and pipe hangers.

Funding: FIP General Plant Project, TEQ $ 2,928,000

FY08 $ 1,078,000 Construction
FY07 $ 1,860,000 Construction
FY06 $ 260,000 Design

The Kansas City Plant is operated and managed by Honeywell Federal Manufacturing & Technologies LLC for the NSAA.
Facilities Infrastructure Recapitalization Program (FIRP)

Replace High Voltage Fire Alarm Panels Loop I & II

Funding:
- FY08 $597,000 Construction
- FY07 $380,000 Construction
- FY06 $400,000 Design

Justification: The high voltage fire alarm panels were installed in the 1970s and have not been available since the 1980s. These panels have a life expectancy of 25 years according to the DOE Accounting Handbook. Currently, these panels are over 30 years old.

Project: This project will replace the existing high voltage (2500VDC) fire alarm system.

Scope: This project will replace the existing high voltage (2500VDC) smoke, heat, and flammable gas detection system.