MOX Fuel Fabrication Facility, Waste Solidification Building, And Pit Disassembly and Conversion Facility

Progress Overview
June 2009
Waste Solidification Building
Progress Overview
June 2009
Project Summary

- Early site construction activities (earthwork and installation of utilities) started December 10, 2008
- Long-lead procurement of critical components in progress
- Subcontract for construction of facility planned for award in July 2009
- Overall schedule
  - Construction Start – December 2008
  - Construction Complete – June 2012
  - Startup Testing Complete – November 2012
  - Ready for Hot Operations – May 2013
- Baseline Cost $345 M
MFFF to WSB High Activity Waste transfer piping
WSB Process Drain Underslab Piping
WSB Electrical Manhole Installation
WSB Storm Sewer Piping
• Project is 34% complete overall
  – Facility construction is 17% complete
• Process Building construction continues on schedule
  – Installation quantities to date are
    • 52,000 cu. yds. of high strength concrete (30%)
    • 10,000 tons of reinforcing steel (27%)
• Project safety
  – Recently reached 2,750,000 continuous safe work hours before second lost time accident
• Administration Building near completion
• Construction progressing on electrical substation
• Site preparation started for Secure Warehouse
• Long Lead process tanks and equipment (Decanning Unit) continue to be delivered to SRS
• Project staffing levels
  - 1,540 direct
  - 1,600 @ vendors
• The NRC staff’s review of the MFFF License Application and Integrated Safety Analysis continues with no significant technical issues being identified. Safety Evaluation Report expected in December 2010.

• NRC has issued eight Notices of Violation (NOV) against MOX services since October 2006. All were categorized as Level IV, the lowest severity level. One NOV in May 2009 resulted from NRC inspections of MOX project vendors.
US Senators From SC & GA Visit MOX – May 1 2009
US Congressmen Gresham Barrett (2nd from left) and Joe Wilson (4th from left) Visit MFFF on May 26, 2009
MFFF Looking South West  -  May 2009
MFFF North East Corner – April 2009
MFFF North East Corner – April 2009
MFFF Process Tanks
MFFF Decanning Unit Test
MFFF Admin. Building - June 2009
Installation of MOX Administration Building Rain Water Collection Tank
Construction Photos

Electrical Substation

April 2009

June 2009
Pit Disassembly & Conversion Facility
Project & Program Status
South Carolina Governor’s Nuclear Advisory Council
June 2009
Pu Disposition Facilities
PDCF Project & Program Status

• Project Status:
  – Project team continues with design activities and procedure development to support establishing a cost and schedule baseline
  – Design is approximately 65-70% complete

• Program Status:
  – Current Pit Disassembly funding does not support the baseline program plan
  – NNSA & DOE EM evaluating alternatives for a combined program/project at SRS
  – Expect NNSA project decision by June/July 2009
    • Independent Review Team evaluating process & final report 6/22-26
PDCF Infrastructure

- “State of Art” Safety, Security, and Pu Production Capability
- Design provides a cost effective and sustainable solution
- Able to meet near term Pu disposition & other long term NNSA mission goals
- 65-70% Design complete, working towards a 2011-2012 Final Design package.

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<thead>
<tr>
<th></th>
<th>Pu Process Building</th>
<th>PDCF Project</th>
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<tbody>
<tr>
<td>Gloveboxes</td>
<td>930 LF</td>
<td>930 LF</td>
</tr>
<tr>
<td>Concrete</td>
<td>88,000 CY</td>
<td>122,000 CY</td>
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<tr>
<td>Reinforcing Steel</td>
<td>7,500 Tons</td>
<td>14,000 Tons</td>
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<tr>
<td>Conduit</td>
<td>83,000 LF</td>
<td>320,000 LF</td>
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<tr>
<td>Cable Tray</td>
<td>12,000 LF</td>
<td>15,000 LF</td>
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<tr>
<td>Power/Control Cable</td>
<td>1,300,000 LF</td>
<td>2,000,000 LF</td>
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<tr>
<td>Piping</td>
<td>45,000 LF</td>
<td>90,000 LF</td>
</tr>
<tr>
<td>Facilities</td>
<td>126,000 SF</td>
<td>280,000 SF</td>
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