



Sodium-Bearing Waste Treatment Project –Integrated Waste Treatment Unit Operational Plan

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IWTU Facility



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Post CD-4 Operations Plan

- Mission Completion by December 31, 2012 (Consent Order)
- Time Required to Process Waste
 - 6 Months or 180 Days at 3.5 gpm (maximum processing rate)
 - 7 Months or 210 Days at 3.0 gpm
- Planned outage duration is 14 days for:
 - Granular Activated Carbon replacement and
 - Possible Process Gas HEPA filter change out
- 2 weeks available for unplanned outages at 3.0 gpm
- 6 weeks available for unplanned outages at 3.5 gpm



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IWTU-Startup Plan (PLN-3350)

- Phased approach controlling facility startup once DOE grants startup approval
- Startup plan provides phase approach to startup leading to unrestricted hot (radioactive waste feed) operations
 - Integrated Testing
 - - Tuning with Water
 - - Bed Building
 - - System Performance Test (radioactive waste feed-SBW)
- Transition to full waste feed operations



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Integrated Testing

- Initial operations will be conducted using bed building chemicals as feed
 - Allows for complete test of control system and system shakedown prior to introduction of radioactive waste
- System Performance Test Phase
 - Introduction of liquid SBW
 - Demonstrate compliance with applicable environmental requirements
 - Gather emissions data
 - Establish operating conditions to be included in RCRA operating permit



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Transition to Hot Operations

- Introduction of radioactive waste occurs with System Performance test
- Facility will operate at reduced SBW feed rate (3.0 gpm) while SPT test results undergo DEQ review.
- Facility full capacity operations (3.5 gpm) can be initiated upon DEQ approval of SPT results



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IWTU Proposed Operations Schedule

- Initiate Hot (temperature) Start-up IWTU - April 6, 2012
- Heat-up Process – April 7-13, 2012
- Tune with Water and Bed Building Solution - April 14 - 20, 2012
- Initiate SBW Treatment Campaign - April 23, 2012
- Conduct System Performance Test (SPT) - April 23 - May 21, 2012
- Process Tank WM-187/188/189 SBW – May 24 - December 22, 2012
- Complete SBW Processing - December 22, 2012



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