



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

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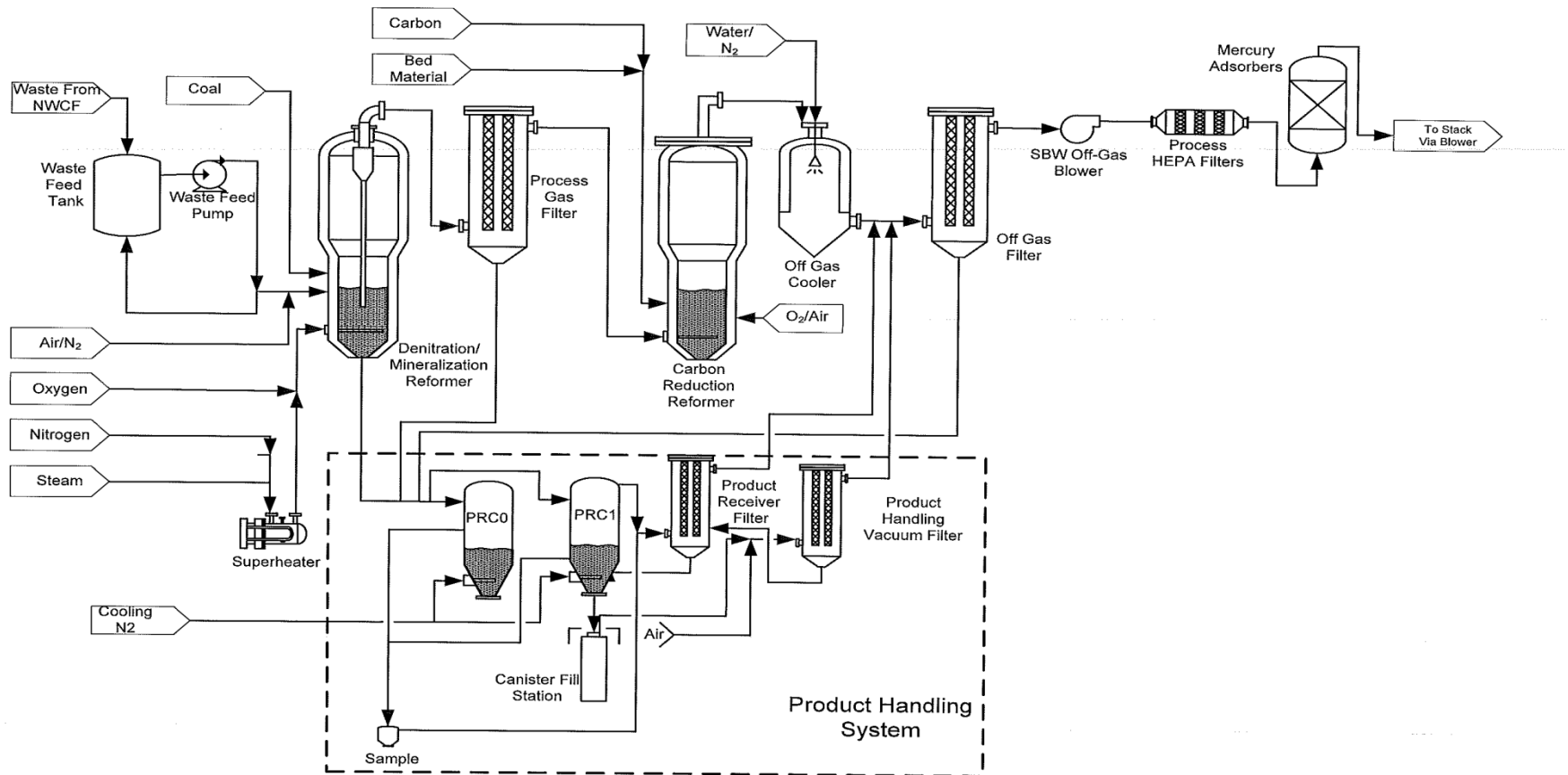
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IWTU Facility



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Process Flow Path



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



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IWTU-Startup Plan (PLN-3350)

- Phased approach controlling facility
- 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



Current Status

- Pressure event on June 16 during facility non-radiological startup and testing resulted in automatic system shutdown
- Multiple suspected system impacts
 - Off Gas Filter (OGF)
 - Process Gas Filter (PGF)
 - 260 Blowers
 - HEPA filters
- Three phase corrective action plan
 - Data gathering and equipment inspection
 - Technical Evaluation Team evaluation (convened June 25)
 - Implement Technical Evaluation Team recommendations
- Corrective Action schedule will be formulated by the Technical Evaluation Team (anticipated plan by mid-July)



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OGF Tube Sheet



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OGF Filter Bundle Removal



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OGF Filter Bundle



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