

# *Citizens Advisory Board Presentation*

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## *Integrated Waste Treatment Unit*

*13 February 2014*

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Deputy Manager



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# Facility Description

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- **New Hazard Category 2 Nuclear Facility:**
  - First of its kind, full scale steam reforming process; reformer vessels use superheated steam and nitrogen gas, along with coal and coke, to convert acidic radioactive liquid waste to solid carbonate particles
- **Mission:**
  - To treat ~900,000 gallons of radioactive liquid waste stored in the Idaho Tank Farm Facility into a stable form suitable for disposal outside of Idaho.
- **Over Pressurization Event:**
  - After the event of June 16<sup>th</sup> 2012, facility modifications have been completed along with additional recovery actions.



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# Current Status

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- ✓ Completed Contractor Management Self Assessment - January 2014
- ✓ Initiated Test Instruction (TI) – 102, IWTU Integrated System Test
- ✓ Initiated Contractor Readiness Assessment on January 13th
- ✓ Contractor Readiness Assessment completed 19 of 22 assessment criteria
  - ✓ Identified two findings and fifteen opportunities for improvement
  - ✓ Corrective actions completed on the two findings
  - ✓ CRA suspended on January 21st pending facility reaching sustained operating temperature and pressure.

✓ = Completed Activity

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# Next Steps

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- Complete Heat-up and addition of bed material to DMR and CRR
- Exercise all four operating crews while at normal operating temperatures
- Contractor Readiness Assessment (CRA) team completes their review of the three remaining operations areas
- Issue CRA Final Report and close any open findings
- Initiate DOE Readiness Assessment (RA) and issue Final Report
- Close any findings from DOE RA Final Report
- Authorization to introduce steam and waste simulant by Jim Cooper (SAA)
- Complete Test Instruction (TI) – 102, IWTU Integrated System Test
- Complete facility outage
- Start waste processing after DEQ approval

✓ = Completed Activity

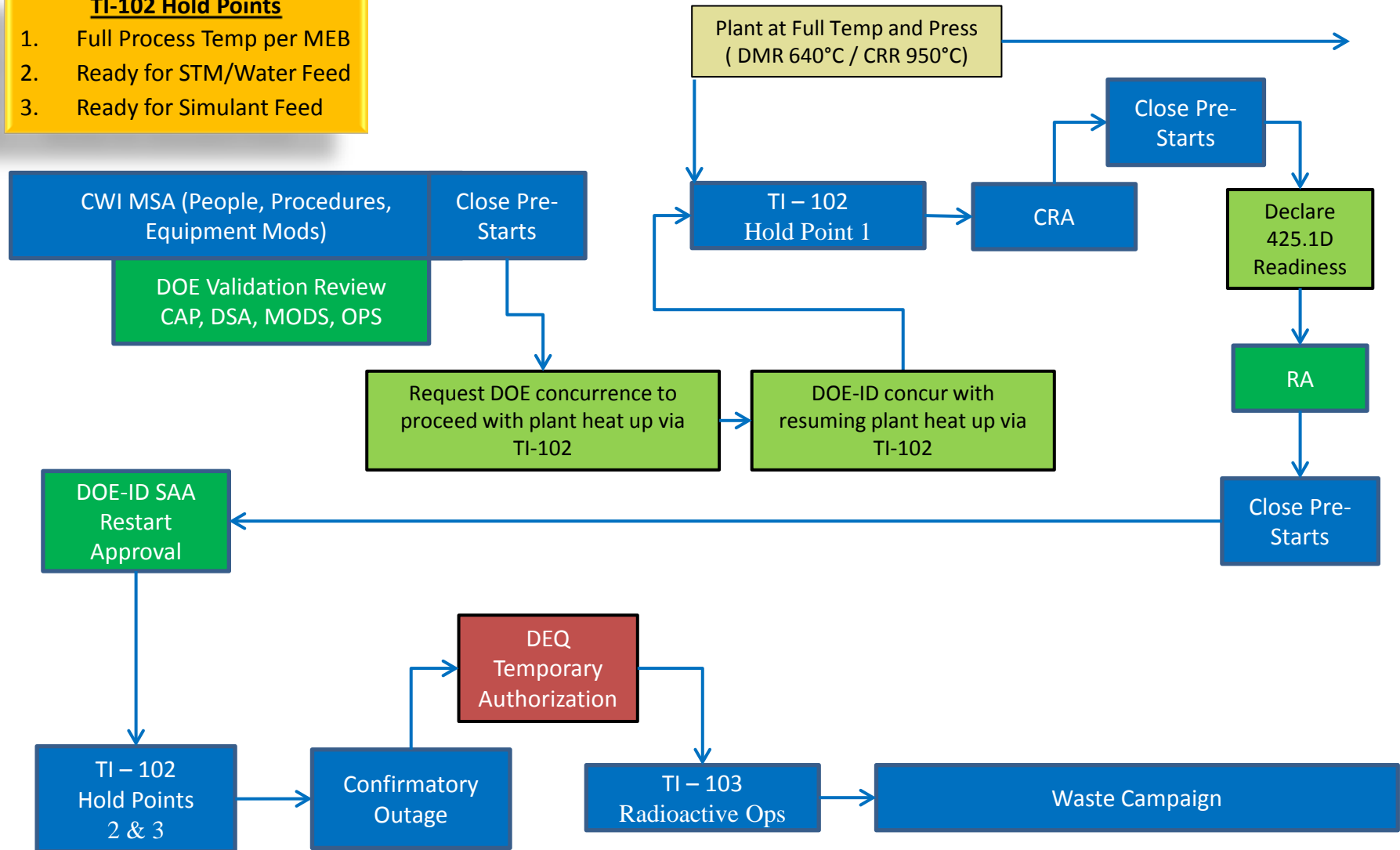


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# IWTU Restart Logic and Process

## TI-102 Hold Points

1. Full Process Temp per MEB
2. Ready for STM/Water Feed
3. Ready for Simulant Feed



# Dashboard Summary for IWTU Project

Key Questions	Dashboard Indicator	Comments
Impact on budget for activity or cleanup		Project costs have increased because of delays in startup and testing.
Impact on employment or economic development		Project has no negative affect in this area.
Affect on agreements		Settlement Agreement milestone missed. Consent Order revised to 31 Dec 2014.
Impact on safety and environment		This project will process radioactive liquid waste into a solid waste for disposal.
Impact on cleanup DOE-wide		The process used is one-of-a-kind and could have further application DOE wide when successfully proven.



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# Questions?



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# Integrated Waste Treatment Unit Process

