Double-Shell Tank AY-102 Monitoring

- Riser 83 weekly inspections show some sign of slow changes

- Primary tank liquid level is continuously monitored with no abnormal change

- Annulus liquid level monitors show no indication of liquid

- Annulus Continuous Air Monitor (CAM) shows no sign of change

- Leak Detection Pit sampled twice with no indication of waste outside the secondary liner
Extent of Condition Evaluations

- 100% visual inspection of six similar Double Shell Tanks (DSTs)
  - Currently evaluating three of six DSTs
    - AY-101 completed with no anomalies seen
    - Expect to complete spring 2013

- Review of archived construction documentation for all DSTs
  - Expect to complete by end of 2013

- For the remaining DSTs, evaluating changes to frequency and methods of the current visual inspection program
AY-101 Annulus Inspection
Riser 84 11-28-2012
AY-101 Annulus Inspection
Riser 77 11-30-2012
AY-101 Annulus Inspection
Riser 78 1-2-2013
Status of AY-102 Pumping Preparedness

- Liquid Only
- Procedures developed
- Primary tank to alternate double-shell tank
  - Power supplied to AY-02A Pump
  - Procuring safety significant rigid jumpers that will allow operational flexibility and keep AY-101 connected to the DST transfer system
- Annulus to primary tank
  - Fabricated and tested general service jumpers
  - Inspected pits and tested transfer line
  - Tested and performed maintenance on pump
  - Equipment staged onsite for quick deployment
Initial Recommendations

- Maximize tank space availability by accelerating evaporator campaigns and completing AP Tank Farm level rises
  - Maintain space for retrieval of C-Farm and next 9 tanks as well as AY-102
- Deploy equipment capable of removing sludge/supernatant from AY-102
- Secretary’s team evaluating Tank Farm Waste Pre-Treatment Requirements/Facilities should consider additional tank space for emergency response and operational considerations
- Additional recommendations are forthcoming
  - Alternatives for providing emergency pumping space