BGRR Graphite Removal

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Community Advisory Council
April 8, 2010
Graphite Pile Removal – Status Update

- Installation of equipment – Completed
- Management Self Assessment – Completed
- BSA Readiness Assessment – Completed
- DOE Readiness Assessment – Completed
- Authorization for graphite removal – Issued
- Graphite removal and shipment – Commenced (February-May 2010)
BGRR Graphite Pile Details

• 25' Cube
• 1.4 million lb
• 60,000 graphite blocks - 4” x 4” square by up to 45” long
• Total Activity 787 Ci
  • Predominantly Carbon-14
• Radiation level of an “average” graphite block
  • ~9 mR/hr contact
  • ~2 mR/hr @ 1 foot
  • ~0.4 mR/hr @ 3 feet
Remote Manipulator for Graphite Removal
Contamination Control Enclosure (CCE)
Remote Controls
Graphite Removal
Graphite Removal (V)
Graphite Removal

- Good use of fixative application for dust and contamination control
Transfer of Graphite to Supersack (V)
Moving Supersack with Graphite to Industrial Package (IP) – 1 Box (Dry Run)
IP-1 Box Sealed and Clipped

- ~ 250 boxes of graphite
- Typical box of graphite:
  - ~ 65 mR/hr on contact
  - ~ 0.8 mR/hr at 20 feet
First Graphite Shipment
First Graphite Shipment
Look Ahead

- Complete removal of BGRR graphite pile
- Complete shipment of graphite to DOE’s Nevada Test Site
- Removal of biological shield
- Installation of engineered cap