BGRR/HFBR Decommissioning Projects



Chuck Armitage Director Environmental Restoration Projects



a passion for discovery

Community Advisory Council November 2010





Briefing Topics

- BGRR
 - Graphite removal completion and celebration
 - Biological shield
 - Engineered cap
- HFBR
 - Stabilization
 - Underground utilities
 - Fan houses
 - Stack



Graphite Pile Removal Project in 2 Minutes





Graphite Pile Removal Complete





BGRR Celebration – Press Conference





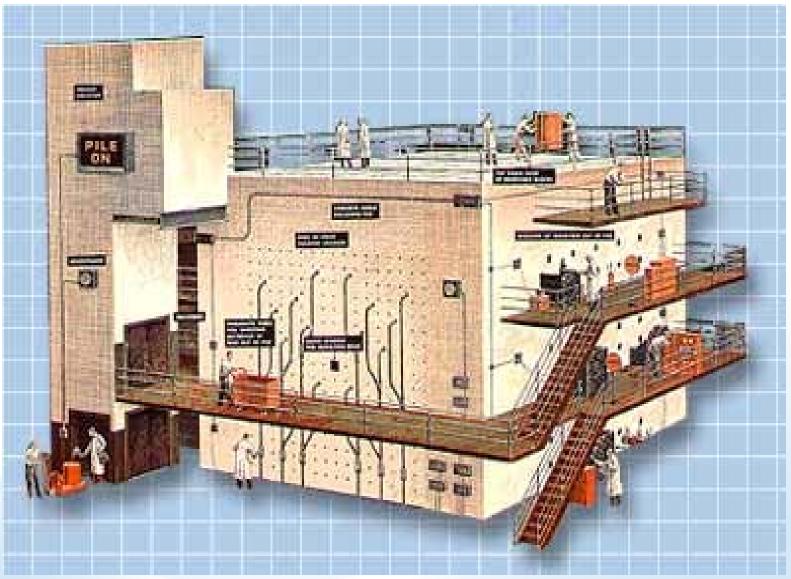
NATIONAL LABORATORY

BGRR Celebration – Tour





BGRR Bioshield



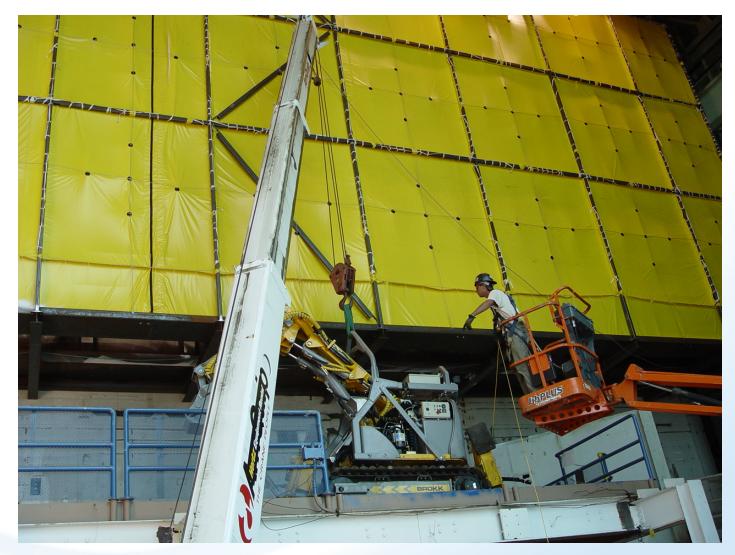


BGRR Preparations for Bioshield Removal





BGRR Preparations for Bioshield Removal







BGRR -- Look Ahead

- Achieve ROD End State by Sept 2011
- Complete by 6/2011
 - Remove biological shield
 - Install engineered environmental cap and monitoring system



HFBR Operations – Reactor Confinement Building – Experimental Level





HFBR Stabilization – Reactor Confinement Building – Experimental Level





HFBR Stabilization – Reactor Confinement Building – Equipment Level





HFBR Stabilization – Reactor Confinement Building – Operations Level





HFBR Stabilization – Reactor Confinement Building – Leak Detection





HFBR Stabilization – Reactor Confinement Building – Lights Off, Door Locked





HFBR Stabilization – Reactor Confinement Building – Lights Off, Door Locked





HFBR Stabilization – Final Status Survey of Outside Area





Excavation of HFBR Underground Air Exhaust Duct





Survey of Excavated HFBR Underground Duct





Fan House (Building 704) Demolition





Fan House Demolition







Fan House Below Ground Structure Demolition





Fan House Site Restoration

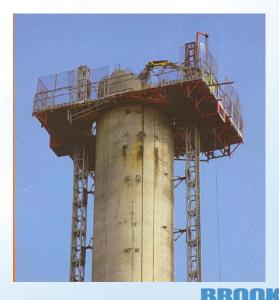




Stack Demolition

- Demolition contract awarded
- Contractor mobilization underway
- Mast climber system to support work platform
- Hoist system to move equipment and personnel





IONAL

HFBR -- Look Ahead

Achieve ROD Long-term Intermediate End State by September 2011

- Completed Confinement Building stabilization and shifted to low maintenance state – 8/25/2010 – complete transition to EPD and SC in 2011
- Completed Fan House 704 demolition (10/2010)
- Complete Underground Utilities (2/2011)
- Stack Demolition start (11/2010) complete (2/2011)
- Fan House 802 demolition start 1/2011 complete (4/2011)



Skyline Changes – September 2011





Brookhaven Science Associates

ARRA Funding – Opportunities and Challenges

- Original ARRA Funding \$42M
- Success has created added ARRA Funding
 - Total ARRA \$70.8M
- Additional funding comes with added scope and accelerated completion
 - Meet HFBR and BGRR ROD states Sept 2011
 - New work sequencing
 - More work simultaneously
 - More integration for common real estate
 - Waste shipment and disposal

