



a passion for discovery

CERCLA Site-Wide Five Year Review

*Presentation to Community Advisory Council
September 9, 2010*

Managed for the U.S. Department of Energy
by Brookhaven Science Associates



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CERCLA Site-Wide Five-Year Review

- **Five-year reviews are required by EPA and NYSDEC under the CERCLA process when contaminants remain**
 - **Prepare no less often than every five years**
- **First Site-wide Review issued July 2006**
http://www.bnl.gov/ltra/5-year_review.asp
 - **Conclusions included**
 - Soil cleanup objectives met
 - Groundwater systems functioning as intended to meet cleanup goals
 - Exposure pathways are being controlled
 - Continue health and safety focus of workers during BGRR pile/bioshield removal
 - Complete remaining work at BGRR and select g-2/BLIP/UST remedy



CERCLA Site-Wide Five-Year Review

- **Second Site-wide Review is being prepared**
 - **Includes all 9 remedies**
 - Groundwater (3)
 - Soil and Peconic River (3)
 - BGRR and HFBR (2)
 - g-2 Tritium Plume, BLIP, and USTs (1)
- **Evaluate implementation and performance of remedies**
- **Determine whether remedies continue to be protective of human health and environment**



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- **Protectiveness Assessment includes three questions**
 - **Is the remedy functioning as intended by the decision documents?**
 - Is it working?
 - Opportunities for optimization, new technologies?
 - **Are the exposure assumptions, toxicity data, cleanup levels, and remedial action objectives used at the time of the remedy selection still valid?**
 - Have standards changed?
 - **Has any other information come to light that could call into question the protectiveness of the remedy?**
 - Has there been a land use change?
 - New ecological risk?



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- **Next steps**
 - Poll CAC
 - Perform interviews
 - Site inspections
 - Technical assessment for each OU and ROD
 - Recommendations for changes
 - Regulator review
 - CAC update
 - Public Availability
- **Schedule**
 - Prepare report, DOE review: Fall 2010
 - CAC update and draft report to regulators: Winter 2010/2011
 - Public Availability: Summer 2011

