



U.S. Department of Energy  
Third CERCLA Five Year Review  
for the Hanford Site  
for the period 2006 - 2010

# Hanford Site Third CERCLA Five Year Review

- CERCLA
  - Comprehensive Environmental Response, Compensation, and Liability Act (Superfund)
    - Requires cleanup (removal actions and remedial actions) of sites where hazardous materials present a threat to human health or the environment.
    - Implemented through the National Contingency Plan (NCP) regulations at 40 CFR 300

# Hanford Site Third CERCLA Five Year Review

- CERCLA, the NCP & Executive Order 12580 direct:
  - Department of Energy (DOE) is the lead agency responsible for conducting the response actions at the Hanford Site
  - As the lead agency, DOE is required to conduct reviews of the status of the response actions no less frequently than once every five years.

# Hanford Site Third CERCLA Five Year Review

- History
  - First Five Year Review completed April 2001
    - For the period 1995 – 2000
  - Second Five Year Review completed November 2006
    - For the period 2001 - 2006
- The Third Five Year Review
  - for the period 2006 – 2010
  - scheduled to be completed November 2011

# Hanford Site Third CERCLA Five Year Review

- EPA guidance:
  - The purpose of the Five-Year review is “to evaluate the implementation and performance of a remedy in order to determine if the remedy is or will be protective of human health and the environment.”
  - For the purposes of this five-year review “Remedy” includes action decisions from the Engineering Evaluation/Cost Analysis/Action Memorandum processes.

# Hanford Site Third CERCLA Five Year Review

- Primary objectives for Five-Year reviews as stated in EPA Guidance:
  - Ensuring the long-term effectiveness of engineered or institutional measures put in place to protect human health and the environment.
  - Optimizing the effectiveness and implementation of remedy requirements.
  - Minimizing duplicative documentation and paperwork

# Hanford Site Third CERCLA Five Year Review

- *DOE Scope of Five-Year Reviews*
  - evaluate whether a remedy is operational and functional;
  - evaluate those assumptions critical to the effectiveness of the remedial measures or the protection of human health and the environment...made at the time of the remedial decision to determine, given current information, whether these assumptions are still valid;
  - determine what corrective measures are required to address any identified deficiencies; and
  - evaluate whether there are opportunities to optimize the long-term performance of the remedy or reduce life-cycle costs.

# Hanford Site Third CERCLA Five Year Review

- The primary objectives for this DOE review are :
  - to evaluate the performance of the selected remedy for each CERCLA decision document (Record of Decision or Action Memorandum).
  - to confirm that immediate threats have been addressed and that the remedy will be protective when complete, where a remedial action has not been completed.
  - to confirm whether the selected remedy remains protective where a site is in the Long-Term Management phase.
  - to recommend actions to improve performance when the Five-Year review indicates that the remedy is not performing as designed.



# Hanford Site Third CERCLA Five Year Review

- This review will include evaluation of CERCLA remedial and removal actions completed or being conducted in the:
  - 100 Area National Priority List (NPL) Site
  - 200 Area NPL Site
  - 300 Area NPL Site
  - 1100 Area NPL Site

# Hanford Site Third CERCLA Five Year Review

- Approach:
  - The third five-year review will meet the scope and objectives of DOE and EPA guidance.
  - The second five year review report will be the foundation on which this review is built. It will be updated to reflect decisions made and activities initiated, continued, and/or completed since 2006.

# Hanford Site Third CERCLA Five Year Review

- RL Lead for Third Five-Year Review
  - Cliff Clark
- Supported by
  - Nick Ceto, Paula Call, Steve Weil, & Boyd Hathaway
  - DOE-RL Federal Project Directors
  - DOE-RL Federal Staff
  - Mission Support Alliance (MSA)
  - CH2MHILL Plateau Remediation Contract
  - Washington Closure Hanford

# U.S. Department of Energy Hanford Site

## Third CERCLA Five Year Review Draft Schedule

<u>Activity</u>	<u>Target Date for Completion</u>
DOE-RL initial coordination and consultation w/regulators	November 23, 2009
EMD & MSA finalize Assessment Plan for DOE Approval	November 30, 2009
Five Year Review Assessment Plan Approved by RL Management	December 2, 2009
Briefings to Wanapum, YIN, Nez Perce, CTUIR, HAB, NRDA, ODOE	November 2009 thru February 2010
Publish Public Notice of Intent to Perform Review	March 8, 2010
Public Feedback on Scope of the Review	March 8, 2010 – April 12, 2010
Briefing to Hanford Advisory Board	April 8, 2010
Five Year Review Kick Off	April 12, 2010
DOE, MSA, & Other Contractor Staff conduct documentation and field reviews of CERCLA Remedial Actions Status	April 12, 2010 – April 1, 2011
EMD briefs RL Management on Review Progress	Quarterly
EMD status briefs to YIN, Wanapum, Nez Perce, CTUIR, HAB, NRDA, ODOE	Quarterly
MSA initiates preparation of 3 <sup>rd</sup> Five Year Review Report	April 4, 2011
Draft of 3 <sup>rd</sup> Five Year Review Report completed	August 19, 2011
EPA & Ecology Coordination	August 23 – September 30, 2011
30-Day Public Feedback Prior to Issuance of the Report	August 23 – September 24, 2011
Final Draft 3 <sup>rd</sup> Five Year Review Report completed by MSA	October 14, 2011
Third Hanford Five Year Review Final Report Must be Issued NLT.	November 5, 2011