



Development of the Hanford Site Chronic Beryllium Disease Prevention Program

**Beryllium Health & Safety
Committee Spring 2010 Meeting
Washington, D.C.
March 15 – 17, 2010**

Presented by: Scott Seydel, CIH

Biography

- **Scott Seydel is currently employed as a Senior Industrial Hygienist by CH2M HILL Plateau Remediation Company. He was a member of the development team for the Hanford Site Chronic Beryllium Disease Prevention Program (CBDPP) and is currently the chair of the Hanford Site CBDPP Committee. Prior to his current job, Scott was the manager of Fluor Hanford's Industrial Hygiene and Chemical Management programs. Scott is a Certified Industrial Hygienist and is a professional member of the American Society of Safety Engineers. Scott has 20 years of environmental, health, and safety experience in a variety of industries, including environmental remediation, semiconductor fabrication, and aircraft manufacturing.**

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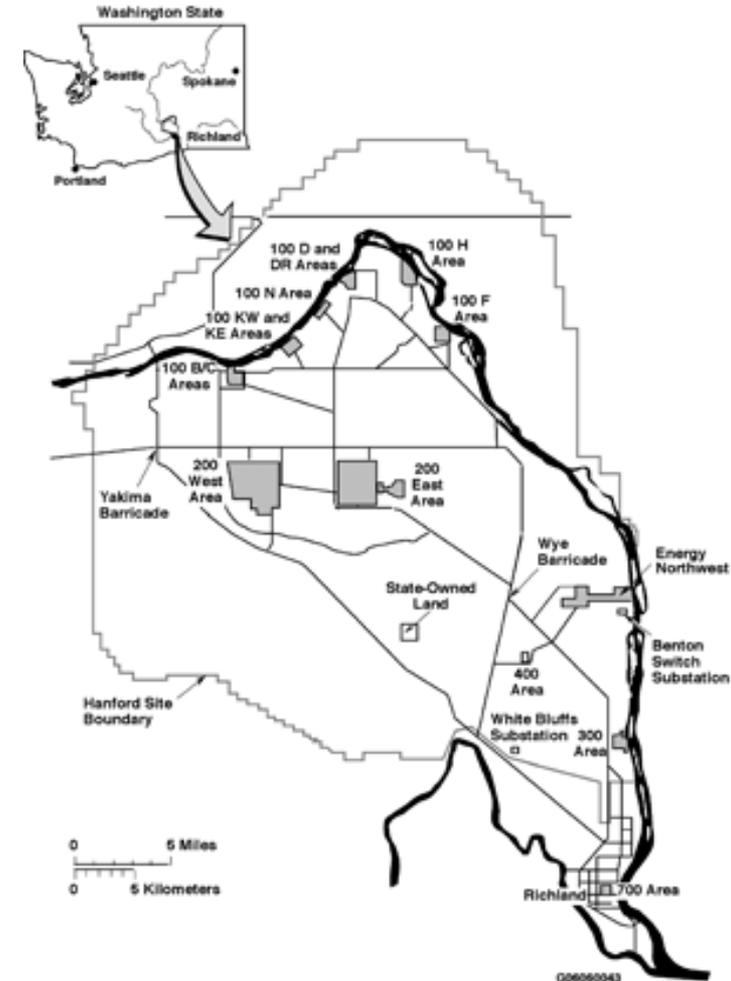
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10 CFR 850 Overview

- **Requires contractors to develop a Chronic Beryllium Disease Prevention Program (CBDPP)**
- **Contractor CBDPP's must be approved by DOE Field Office**
- **Regulation is performance based**
- **Threshold of “potential” exposure**
- **Meeting the expectations of “ensure”**

Beryllium at Hanford

- Limited current beryllium mission activities
- Beryllium legacy contamination
 - Fuel production in 300 Area
 - Rocky Flats ash/oxide
 - Beryllium alloy components
- Distributed command structure
 - Three different DOE field offices
 - Currently eight prime contractors



Purpose of Site-Wide Program

- **10 CFR 850 is a performance based standard**
 - Differences in contractor approaches
- **Mobility of the Hanford workforce**
- **Employee concerns**
 - Level of trust
 - Number of affected workers
 - Inability to determine exposure locations

Original Contractor Participants

- **Fluor Hanford – Project Hanford Management Contract**
- **Washington Closure Hanford – River Corridor Contract**
- **CH2M HILL Hanford Group – Tank Farm Operations Contract**
- **AdvanceMed Hanford – Site Occupational Medical Contract**
- **Battelle – Pacific Northwest National Laboratory Operations**

Final Contractor Participants

- **CH2M HILL Plateau Remediation Company – Plateau Remediation Contract**
- **Mission Support Alliance – Hanford Mission Support Contract**
- **Washington Closure Hanford – River Corridor Contract**
- **Washington River Protection Solutions – Tank Farm Operations Contract**
- **AdvanceMed Hanford – Site Occupational Medical Contract**

Other Participants

- **Hanford Atomic Metals Trade Council**
- **Beryllium Awareness Group**
- **DOE Richland Operations Office**
- **DOE Office of River Protection**
- **HAMMER Training Facility**

Approach to Development

- All meetings facilitated by mediator
- Written ground rules
- “No thumbs down” method of consensus
- Scheduled meetings twice per week
- Special sessions scheduled as necessary

Key Elements of Hanford Site CBDPP

- **Definitions**
- **Building Assessment Process**
- **Beryllium Work Permits**
- **Exposure Monitoring Requirements**
- **Handling of Affected Workers**
- **Training**



Benefits to Employees

- **Standardization between contractors**
- **Improved clarity of Contractor expectations**
- **Employee exposure sampling protocols**
- **Processes to improve trust**
- **Involvement in the CBDPP Committee**

Benefits To Contractors

- Clarified expectations
- Process for working through disputes
- Clear process for characterizing buildings



Lessons Learned - People

- **Identify participants and commitment**
 - Delegates and alternates
- **Define committee authority**
- **Establish ground rules up front**
- **Institute consistent Group Leader/Facilitator throughout process**
- **Ensure Senior Management Teams involved**

Lessons Learned - Paper

- **Clearly defined expectations from DOE Field Offices**
- **Benchmark all contractor procedures/processes**
- **Establish Charters early**
- **Produce timely meeting minutes and updated documents**
 - **Dedicated scribe**

Lessons Learned - Process

- **Consistent direction from all DOE Field Offices is vital**
- **Know whether you are creating a program or a procedure**
- **No hidden deadlines**
- **Keep set meeting times**
- **Engage DOE, Contractor Contracting Officers, and Legal throughout the process**
- **Drive communication back to the stakeholders**