

**Plutonium Finishing Plant (PFP) Demolition Resumption  
Expert Panel Charter  
Revision 2**

BACKGROUND

Under its contract with the Department of Energy's (DOE) Richland Operations Office (RL), the CH2M Hill Plateau Remediation Company (CHPRC) is in the process of demolishing the highly contaminated PFP. The PFP produced approximately 60 percent of the plutonium for the United States and has been in the process of de-inventory, decommissioning and decontamination for the last 20 years. In June 2017 demolition activities resulted in the spread of airborne radioactive contamination outside of established control boundaries, exposure to nearby workers, and a subsequent stop work order by CHPRC and workers. As a result, CHPRC completed a causal analysis and developed several corrective actions to prevent recurrence. In early November 2017 demolition resumed and continued until early December 2017 when there was another spread of airborne radioactive contamination outside of established control boundaries and exposure to nearby workers.

On December 18, 2017, DOE-RL formally communicated to CHPRC that no additional PFP demolition was authorized without DOE's approval. On January 5, 2018, DOE-RL formally reiterated its position that "as previously directed verbally and by letter, no demolition work, rubble/debris load-out or work other than identified stabilization activities, shall be conducted until CHPRC has this situation fully stabilized and has briefed DOE-RL and received concurrence on the path forward." On January 9, 2018, the Washington Department of Ecology (Ecology) and US Environmental Protection Agency (EPA) transmitted a letter to DOE stating that "Ecology and EPA are aware that DOE-RL has stopped work at the PFP (Plutonium Finishing Plant) site at this time. However, given our determination, we hereby invoke Hanford Federal Facility and Consent Order (HFFACO) Article XXXII ("Creation of Danger") and order all work at PFP to stop until Ecology and EPA determine that DOE-RL has taken actions sufficient to allow the remaining work at PFP to continue and informs DOE-RL that work may resume."

CHPRC is conducting a causal analysis of the events and developing a proposed approach for safely completing demolition activities at PFP. Corrective actions from the event and the proposed approach must be approved by DOE prior to resumption of PFP demolition.

## OBJECTIVES

Using a collegial and iterative process, the Panel Members will review and challenge CHPRC's proposed approach to fully recovering from the recent spreads of contamination and safely completing the demolition of the PFP. The Panel Members will continue their review until the Panel Chair, in consultation with the Panel Members, concludes that CHPRC's proposed approach has been adequately considered and that recommendations from the Panel Members have been adequately incorporated into the proposed approach.

## PANEL MEMBERSHIP

The Demolition Resumption Expert Panel consists of federal personnel who are subject matter experts in pertinent scientific and technical disciplines and who have specific operational and assessment experience. These individuals have expertise in operational and radiological controls and evaluation experience, environmental remediation, and environmental management. The panel also has ex officio members from organizations outside of the federal government with similar expertise and experience. The federal personnel on the Panel come from DOE's Environment, Health and Safety community; the National Nuclear Security Administration (NNSA); the Separations Process Research Unit (SPRU); Los Alamos National Laboratory (LANL); and the Nuclear Regulatory Commission (NRC). The ex officio members come from Oregon State University, Vanderbilt University, and AECOM.

### Panel Members:

Mr. Todd Lapointe, Panel Chair, DOE, NNSA

Mr. Jason Armstrong, DOE, NNSA

Mr. Steven Feinberg, DOE, Environmental Management Consolidated Business Center

Mr. William Miller, DOE, Environment, Safety and Health Assessments

Mr. Matthew Moury, DOE Environment, Health, Safety and Security

Mr. John Tappert, NRC Nuclear Material Safety and Safeguards

Mr. Steve Yarbro, DOE, LANL

### Ex Officio Members:

Dr. Kathryn Higley, Oregon State University

Dr. Steve Krahn, Vanderbilt University

Mr. Chip Lagdon, AECOM

The Expert Panel will provide its observations and recommendations to CHPRC and DOE-RL. CHPRC will review them and provide its response to the Panel and the Manager of DOE-RL, Doug Shoop.

## REVIEW APPROACH

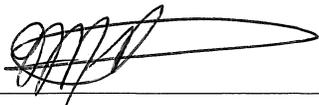
The Panel will be provided with a Panel Administrator who will, at the request of the Panel Chair, formally document recommendations from the Panel and the disposition of these recommendations by CHPRC. The Panel Chair with the assistance of the Administrator will coordinate all logistical and administrative support for the Panel, and make necessary arrangements for the addition of Panel Members from the federal government, Ex Officio Members from other organizations, and technical support as the Panel Chair deems necessary. Webinars and other technologies will be used, to the maximum extent possible, to enable the Panel Members to meet as often as deemed necessary by the Panel Chair, and to consult with individual Ex Officio Members. Arrangements for site tours will be made as deemed necessary by the Panel Chair and coordinated through the Administrator. An initial webinar will be scheduled in late January 2018 to provide the Expert Panel with a comprehensive understanding of PFP activities through December 2017.

The Panel Members should consult with the Ex Officio Members as needed to gain the benefits of their expertise and insight. Panel Members should consult with individual Ex Officio Members as needed and on an individual basis.

Operations of the Panel may be observed by Hanford Labor Leaders, Washington State's Departments of Ecology and Health, and the EPA. The Panel Administrator will coordinate the observations of the Panel by these entities and will facilitate disposition of any questions they may have for the Panel.

## DELIVERABLE

The deliverable from the Panel will be the collective opinion(s) coordinated through and presented by the Chair as to whether the contractor's proposed approach appears technically sound and, if effectively implemented, would protect workers, the public and the environment supported by a robust, comprehensive root cause analysis of the recent spread of contamination events in 2017 and 2018 including identified corrective actions. The opinion(s) of the Panel and Panel Members do not constitute authorization for CHPRC to initiate its proposed approach for resuming PFP demolition; this authorization must come from DOE line management.



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Todd N. Lapointe  
Chair, PFP Demolition Resumption Expert Panel

02/27/2018

Date