

Joyce L. Connery, Chairman  
Jessie H. Roberson, Vice Chairman  
Sean Sullivan  
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**DEFENSE NUCLEAR FACILITIES  
SAFETY BOARD**

Washington, DC 20004-2901



October 26, 2015

The Honorable Ernest J. Moniz  
Secretary of Energy  
U.S. Department of Energy  
1000 Independence Avenue, SW  
Washington, DC 20585-1000

Dear Secretary Moniz:

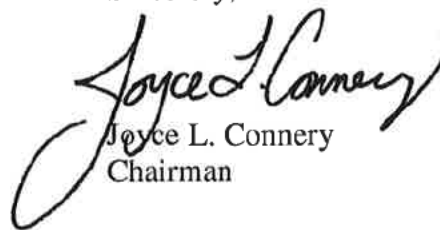
The Defense Nuclear Facilities Safety Board's (Board) staff has performed an evaluation of the Department of Energy's (DOE) progress on Board Recommendation 2012-2, *Hanford Tank Farms Flammable Gas Safety Strategy*. The progress made during fiscal year 2015 is summarized below.

Pursuant to DOE's Implementation Plan (IP), DOE submitted Deliverable 5-1 to the Board on February 6, 2015. The report included with this deliverable evaluated potential methods for reducing the flammable gas inventory at the Hanford Tank Farms to address Sub-Recommendation 5 of Recommendation 2012-2.

In December 2014, the Board sent a letter to the DOE Office of River Protection identifying several issues with a draft of Deliverable 1-2, *Streamlined Approach to Upgrading DST Primary Tank Ventilation*. We are awaiting the revised deliverable from DOE.

Six additional IP commitments remain open at this time, a number of which have been delayed. The enclosure lists these outstanding commitments, the expected completion dates as given in both the original and revised IPs, and the most current dates as communicated by DOE. Given that some of these commitment dates have changed since DOE's last formal communication, the Board requests an update to the IP to reflect the current delivery dates.

Sincerely,



Joyce L. Connery  
Chairman

Enclosure

c: Dr. Monica Regalbuto  
Mr. Kevin W. Smith  
Mr. Joe Olencz

Enclosure

Outstanding Deliverable	Description	Implementation Plan Commitment Date		Most Recently Communicated Delivery Date
		Initial (6/6/13)	Revised (8/29/14)	
1-4	Upgrade remaining double-shell tank active ventilation systems to meet safety significant requirements	Contingent on mixer pump operation (TBD)	No change	No change
2-2	Install safety significant instrumentation for real-time monitoring of the ventilation exhaust flow from each double-shell tank	October 2015	October 2016	Fiscal Year (FY) 2017
2-3	Approve the safety basis amendment revising the flammable gas controls to use safety significant real-time flow monitoring instrumentation	October 2015	October 2016	FY2017
2-4	Implement a safety basis amendment revising the flammable gas controls to use safety significant real-time monitoring	December 2015	January 2017	TBD
3-1	Upgrade the 4 double-contained receiver tank level indicators and the 84 (three for each of the double-shell tanks) annulus level indicators that are used to fulfill safety functions to safety significant	January 2015	July 2016	Late FY2016/ Early FY2017
4-3	Implement double-shell tank Primary Tank Ventilation System Compensatory Measures that will include the applicability of redundant electrical power or a supplemental portable ventilation system	Contingent on mixer pump operation (TBD)	No change	No change