

Bruce Hamilton, Chairman
Jessie H. Roberson
Joyce L. Connery

**DEFENSE NUCLEAR FACILITIES
SAFETY BOARD**

Washington, DC 20004-2901



The Honorable James Richard Perry
Secretary of Energy
U.S. Department of Energy
1000 Independence Avenue, SW
Washington, DC 20585-1000

Dear Secretary Perry:

We received a letter from the Department of Energy's Office of River Protection (ORP) on May 15, 2019, providing notification that DOE has resolved a technical issue related to the design of the pulse-jet mixer (PJM) control system. DOE opened the technical issue, in part, because of concerns raised by the Board regarding (a) the system's ability to prevent frequent overblows in process tanks within the Pretreatment Facility at Hanford's Waste Treatment and Immobilization Plant (WTP), and (b) whether frequent overblows could potentially damage the process vessels and related equipment. ORP's letter documents substantial work, including full-scale testing, performed by DOE to ensure that the PJM control system will work. DOE has made design changes and performed structural analyses that show that PJM overblows, if they occur, will not damage the process vessels or other installed equipment, as currently designed. Based on the results of the testing, DOE determined that the technical issue is resolved.

We acknowledge the work performed by DOE and note that it strengthens the technical foundation for use of PJM systems in black cells. We will continue to follow the design process as DOE further matures it.

Yours truly,

Bruce Hamilton
Chairman

c: Mr. William I. White
Mr. Brian T. Vance
Mr. Langdon Holton
Mr. Joe Olencz

AFFIRMATION OF BOARD VOTING RECORD

SUBJECT: Hanford WTP PJM Resolution Letter

Doc Control#: 2020-100-0005

The Board acted on the above document on 11/14/2019. The document was Approved.

The votes were recorded as:

	APRVD	DISAPRVD	ABSTAIN	NOT PARTICIPATING	COMMENT	DATE
Bruce Hamilton	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/14/2019
Jessie H. Roberson	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/14/2019
Joyce L. Connery	✓	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11/13/2019

This Record contains a summary of voting on this matter together with the individual vote sheets, views and comments of the Board Members.

Nicholas Moore

Executive Secretary to the Board

Attachments:

1. Voting Summary
2. Board Member Vote Sheets

DEFENSE NUCLEAR FACILITIES SAFETY BOARD
NOTATIONAL VOTE RESPONSE SHEET

FROM: Bruce Hamilton

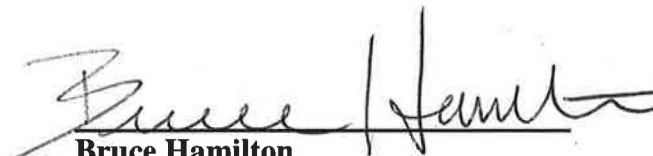
SUBJECT: Hanford WTP PJM Resolution Letter

Doc Control#2020-100-005

Approved X **Disapproved** **Abstain**

Recusal – Not Participating

COMMENTS: **Below** **Attached** **None** X


Bruce Hamilton

14 NOV 2019
Date

DEFENSE NUCLEAR FACILITIES SAFETY BOARD
NOTATIONAL VOTE RESPONSE SHEET

FROM: **Jessie Roberson**


SUBJECT: **Hanford WTP PJM Resolution Letter**

Doc Control#2020-100-005

Approved **Disapproved** _____ **Abstain** _____

Recusal – Not Participating _____

COMMENTS: **Below** _____ **Attached** _____ **None**



Jessie Roberson
Nov 14, 2019

Date

DEFENSE NUCLEAR FACILITIES SAFETY BOARD
NOTATIONAL VOTE RESPONSE SHEET

FROM: Joyce L. Connery

SUBJECT: Hanford WTP PJM Resolution Letter

Doc Control#2020-100-005

Approved

Disapproved

Abstain

Recusal – Not Participating

COMMENTS:

Below

Attached

None



Joyce L. Connery

November 13, 2019

Date