

ARCHIVE: 2018-300-027, FY18 Work Plan RFBA Response  
**Memorandum**

1/22/2018

**TO:** Board Members

**FROM:** S. Stokes

**SUBJECT:** Fiscal Year 2018 Work Plan – Request For Board Action 2018-300-018

**Introduction.** This memorandum responds to Board approved Request for Board Action (RFBA) 2018-300-018 dated December 6, 2017 related to the Office of the Technical Director (OTD) work plan. The RFBA contains the following requested action and justification:

- Brief description of Requested Action:

Task OTD to provide a briefing to the Board and a document for Board approval (in Orange Folder) with a list, description, and justification, for each FY18 OTD work plan item that was added, deleted, or had their ON/OFF status changed since the Board approved the FY18 OTD work plan. Task OTD to complete this action by January 17, 2018.

- Justification:

In accordance with Board Procedures, section 2.2.E (Board Resource Planning):

“Execution. The Chairman shall adhere to the approved staffing plan in making personnel employment and contract decisions. The Chairman and the Office Directors shall adhere to the approved annual work plan in making staff assignments. **Any Board Member or Office Director may bring before the Board a proposal to revise the Board’s current annual work plan. A proposal identifying new staff work should also identify the previously planned work that will be deferred or canceled.**”

It has come to my attention that the OTD work plan is being modified without Board approval and Board awareness of the impact to other approved work. It is important to understand the type and extent of these modifications to develop a common understanding between the Board and the staff on the type of modifications that require Board approval. This action helps ensure that the Board can establish clear expectations, weigh the pros and cons, resource impacts, and impacts to already approved work prior to changing the previously approved work plan.

**Background.** On October 17, 2017, the Board unanimously approved the Fiscal Year 2018 (FY18) OTD Work Plan. The plan represented 38 oversight plans and approximately 280 work activities. During execution of this plan, OTD adjusts the review activities and schedules to reflect the Board’s priorities, manage resources, and maintain the quality of each review. Review plan changes also reflect Department of Energy schedule changes and emerging work priorities including Board RFBA’s.

**Review Plan Changes.** Tables 1 and 2 identify OTD work activities that had their on/off status changed since Board approval of the work plan in October 2017. Tables 3 through 7 identify new reviews added to the work plan. The tables contain the basis for each of the changes. For emergent work, additional detail is provided below.

**Emergent Work Activities.** The following list of emergent work has been added to the work plan since Board approval:

- Y-12 Aging Asset Management Program Scoping Review, Priority 2, August 2017 to December 2017 – this activity was part of an approved review and was separated to allow better tracking of the scoping activity (previous scope defined in Y-12 Aging Asset Management Program Review). The activity adds less than 0.1 Full Time Equivalent (FTE) and does not impact other work plan activities. This review supports evaluation of the safety impact of aging infrastructure and is part of the broader aging management review planned for FY18.
- Pantex Unscreened Hazard Analysis Report (HAR) Scenarios with High Order Consequences, Priority 2, January 2018 to March 2018 – review needed to address deficiency in certain weapon system HARs, which could impact the control set for accident scenarios with high consequence. The activity adds less than 0.1 FTE and has limited impact on other Pantex work plan activities. This review evaluates safety issues associated with unscreened hazard scenarios.
- Pantex High Pressure Fire Loop Lead-in Replacement Review, Priority 3, January 2018 to June 2018 – follow-on review to evaluate replacement activities. The activity adds less than 0.1 FTE and does not impact other work plan activities. This review evaluates potential safety issues associated with the fire loop lead-in replacement. Previous repairs were faulty.
- Los Alamos National Laboratory Transuranic Waste Facility Transition to Operations Phase 2, Priority 3, August 2017 to February 2018 – the federal operational readiness review identified restrictions for starting waste operations. This review will evaluate the process and operational changes to lift the restrictions. The activity adds less than 0.1 FTE and does not impact other work plan activities. This review will evaluate potential safety issues associated with lifting restrictions on waste operations.
- Y-12 Building 9212 Briquette Exothermic Reactions, Priority 4, October 2017 to March 2018 – follow-up on issues raised by the resident inspector. The activity adds 0.1 FTE and does not impact other work plan activities. This review will evaluate potential safety issues associated with briquette exothermic reactions.
- Savannah River Site (SRS) H-Canyon Justification for Continued Operation (JCO) Review, Priority 2, November 2017 to March 2018 – additional scope identified during completion of a structural review. The contractor declared a Potential Inadequacy in the Safety Analysis and submitted the necessary JCO to the Site Office on October 26, 2017. The staff work to review the JCO is being tracked in this emergent work activity. The activity adds less than 0.1 FTE and has limited impact on other SRS work plan activities.

This review will evaluate potential safety issues associated with the JCO adequacy and implementation.

- Changes to DOE directives reviews, Priority 4, November 2017 to March 2018 – added based on changes in focus identified in Amendment 2017-300-115F. The activity supports communication to DOE and revision to internal procedures consistent with Board direction. The activity adds less than 0.1 FTE and has limited impact on other Nuclear Programs and Analysis work plan activities. This activity is needed to communicate to DOE on the new staff approach for review of DOE directives.
- Design and Construction Item Status Report, Priority 2, January 2018 to April 2018 – identified as a new activity to evaluate existing design and construction safety items consistent with Board Policy Statement-6. OTD will propose communication on appropriate design and construction technical issues consistent with the new policy statement. The activity adds less than 0.1 FTE and does not impact other work plan activities. This activity is needed to disposition open safety issues in accordance with Board Policy Statement-6.
- Uranium Processing Facility Airborne Release Fraction and Respirable Fraction, Priority 5, November 2017 to March 2018 – additional scope identified during an existing review. The new scope is to support proposed Board communication (previous scope defined in Uranium Alloys ARF/RF). The activity adds less than 0.1 FTE and does not impact other work plan activities. This activity is needed to prepare communication on a potential safety item.
- Fiscal Year 17 Performance and Accountability Report, Non-Discretionary, October 2017 to November 2017 – added scope to support review and approval of the report. This scope was not identified as part of the Board approved work plan. The activity adds less than 0.1 FTE and does not impact other work plan activities. This activity has been completed and was required to support a non-discretionary work item.
- External Correspondence Working Group, Priority 6, 0.2 FTE, December 2017 to May 2018 – new scope added to improve the external correspondence development process. The activity adds 0.2 FTE and has limited impact on other Engineering Performance work activities (e.g., internal procedure updates). This activity is needed to improve internal staff work processes to support timely and efficient external correspondence.

**Conclusion.** This document is provided for Board approval in accordance with RFBA 2018-300-018 dated December 6, 2017. OTD loss of technical staff and addition of emergent and other work activities has caused the work plan to exceed resource capacity for FY18. OTD will revise the plan to resolve this issue during the next quarter. OTD will update the Board when new activities are added to the plan (i.e., new line items are added to the work plan tool). OTD will update the Board quarterly on the execution of the FY18 work plan including new activities and the status (i.e., schedule, on/off changes) of non-discretionary, priority 1 and priority 2 activities.

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Table 1 – Work Plan On to Off

Group	Project	Title	Priority	Basis for Change
NWP	LANL	CDNS Biennial NA-LA Review Assessment	2	Doc#2017-300-115A, Amendment
NWP	LANL	LANL Resident Inspector Coverage	4	Turned off due to recusal (Burnfield)
NMPS	Idaho	Calcine Waste Transfer Safety Basis Review	5	Project delayed to FY19
NMPS	Idaho	Electrical Programmatic Review at INL	5	Turned off to resolve loading of review members.
NPA	R2014-1	R2014-1 Annual Update	ND	Board closed R2014-1 on September 26, 2017
NPA	DSA Cross Cutting	DOE OE-1: 2015-1 Review	2	Doc#2017-300-115B, Amendment
NPA	Directives	Track and update DOE Directives	6	Doc#2017-300-115B, Amendment
NPA	Directives	DOE-STD-1212-YR, Explosives Safety	3	Doc#2017-300-115B, Amendment
NPA	Directives	DOE-STD-3007-YR, Criticality Safety	2	Doc#2017-300-115B, Amendment
NPA	Directives	DOE-HDBK-1224-YR, Accident Analysis	2	Doc#2017-300-115B, Amendment
NPA	Directives	DOE-STD-5506, Transuranic Waste	2	Doc#2017-300-115B, Amendment
NPA	Directives	Initial RC - DOE G 424.1-1C, USQ Guide	2	Doc#2017-300-115B, Amendment
NPA	Safety Culture	R2011-1 Analysis	ND	Replaced by R2011-1 Effectiveness Review
NPA	Directives	DOE-HDBK-1139/3-YR, Chemical Management	5	Doc#2017-300-115B, Amendment
NPA	Directives	DOE-STD-1146-YR, General Qualification Standard	4	Doc#2017-300-115B, Amendment
NPA	Directives	DOE G 414.1-4A, SQA Guide	4	Doc#2017-300-115B, Amendment
NPA	Directives	DOE G 410.2-1, Nuclear Material Disposition	5	Doc#2017-300-115B, Amendment
NPA	R2014-1	R2014-1 Progress Review	1	Board closed R2014-1 on September 26, 2017
NFDI	WTP	Ammonia Controls Resolution	3	Doc#2017-300-115C, Amendment
NFDI	WTP	Spray Leak Resolution	3	Doc#2017-300-115C, Amendment
NFDI	WTP	PJM Overblows Resolution	3	Doc#2017-300-115C, Amendment
NFDI	WTP	Electrical Resolution	3	Doc#2017-300-115C, Amendment
NFDI	WTP	HLW I&C Review	3	Doc#2017-300-115C, Amendment
NFDI	WTP	Uniform and Localized Corrosion T5 Review Plan	4	Doc#2017-300-115C, Amendment
EP	Training Program	Training Guide - Criticality Safety	ND	Departure of Jerry McKamy

Changes driven by Work Plan amendment

Table 2 – Work Plan Off to On

Group	Project	Title	Priority	Basis for Change
NWP	Pantex	Pantex PSHA Update Review	3	Turned on after reducing the scope and interaction to a teleconference. 10-year PSHA seismic re-evaluation is a decade overdue.
EP	Internal Procedures	OP-530.1-5	4	This review was turned on based on a conversation with the technical director to increase the staff's usage of formal calculations.
NWP	LLNL	Readiness Assessment of B331 Tritium Grinder	6	Review conducted as part of routine Cog. Engineer oversight, Work Plan item turned on for tracking purposes.

Table 3 – Nuclear Weapons Program New Reviews

Group	Project	Title	Priority	Basis
NWP	LANL	RFBA Regarding LANL Criticality Safety	ND	RFBA – Doc#2017-300-113 (Complete)
NWP	ELP	Y-12 Aging Asset Management Program Scoping Review	2	Emergent work – activity divided into multiple phases
NWP	Pantex	Unscreened HAR Scenarios with High Order Consequences	2	Emergent work
NWP	Pantex	W78 Repair Unit NESS	3	Carryover – NNSA delay
NWP	Y-12	Building 9204-2E DSA Review	3	Carryover – NNSA requested interaction delay
NWP	LLNL	CASTLE SQA Implementation at LLNL	3	Carryover – NNSA delay
NWP	Pantex	CASTLE SQA Implementation Review	3	Carryover – NNSA delay
NWP	Pantex	W76 NESS	3	Carryover – review NNSA report (recently received)
NWP	Pantex	HPFL Lead-in Replacement Review	3	Emergent work
NWP	LANL	TWF Transition to Operations Phase 2	3	Emergent work
NWP	LANL	PF-4 Safety Basis Review – Phase 3	3	Carryover – activity divided into multiple phases
NWP	Y-12	Building 9212 Briquette Exothermic Reactions	4	Emergent work
NWP	SNL	POC Testing	5	Carryover – NNSA delay

■ Red text denotes a Board Action

■ Black text denotes a review carryover from FY17

■ Blue text denotes unplanned emergent work (see page 2)

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Table 4 – Nuclear Material Processing and Stabilization New Reviews

Group	Project	Title	Priority	Basis
NMPS	SRS	SWPF DSA and TSR Review Part 1	ND	Carryover – DOE request to delay
NMPS	SRS	SWPF DSA and TSR Review Part 2	ND	Carryover – separated scope
NMPS	SRS	CUI Outline Development	ND	RFBA
NMPS	Hanford-RL	Building 324 Health Physics Review	2	Carryover
NMPS	SRS	H-Canyon JCO Review	2	Emergent Work
NMPS	WIPP	Maintenance Follow Up	2	Carryover – DOE request to delay
NMPS	WIPP	WIPP Safety SSC Review	2	Carryover
NMPS	Hanford-RL	PFP Demolition Oversight	3	Carryover – demolition continues in FY 18
NMPS	Hanford-RL	PUREX Structural and MAR Review	4	Carryover – staff resources, new information
NMPS	SRS	F-Canyon Seismic Reanalysis	4	Carryover
NMPS	Idaho	AMWTP TSR Implementation Review	5	Carryover
NMPS	SRS	TCCR Safety Basis Review	5	Carryover – paused in FY 17
NMPS	Hanford-RL	WESF Develop HEPA Fire Protection	6	Carryover – additional scope

 Red text denotes a Board Action

 Black text denotes a review carryover from FY17

 Blue text denotes unplanned emergent work (see page 2)

Table 5 – Nuclear Programs and Analysis New Reviews

Group	Project	Titles	Priority	Basis
NPA	Emergency Management	Review of EP&R and Assurance at major DNFs (Y-12)	ND	Doc#2017-300-115F
NPA	Emergency Management	Review of EP&R and Assurance at major DNFs (Hanford)	ND	Doc#2017-300-115F
NPA	Emergency Management	Summary of major DNF reviews and lessons learned	ND	Doc#2017-300-115F
NPA	Directives	DOE G 424.1-1, Guide - Unreviewed Safety Question Requirements	2	Doc#2017-300-115B
NPA	Directives	DOE-HDBK-1224, Accident Analysis Handbook	2	Doc#2017-300-115B
NPA	Directives	Changes to DOE directives reviews	4	Emergent Work
NPA	Directives	DOE O 435.1, Radioactive Waste Management	5	Doc#2017-300-115B
NPA	Directives	DOE-STD-1195, Safety Significant Safety Instrumented Systems Used	5	Doc#2017-300-115B
NPA	Directives	DOE STD-3014, Accident Analysis for Aircraft Crash	5	Doc#2017-300-115B
NPA	Directives	DOE-HDBK-3010, Airborne Release and Respirable Fractions	5	Doc#2017-300-115B
NPA	Directives	DOE-STD-1158, Self-Assessment - Criticality Safety Programs	5	Doc#2017-300-115B

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- Blue text denotes unplanned emergent work (see page 2)



Table 6 – Nuclear Facility Design and Infrastructure New Reviews

Group	Project	Titles	Priority	Basis
NFDI	LAWPS	Safety Design Strategy Update	ND	Carryover
NFDI	Performance	Design and Construction Item Status Report	2	Emergent Work
NFDI	Idaho	INL Risk Informed methodology review	4	Carryover – scope split
NFDI	TWF	Dispersion Modeling	4	Carryover – staff analysis
NFDI	LANL Pu	TA-55 Reinvestment Project (TRP) Phase II Review - UPS Electrical	5	Carryover
NFDI	LANL Pu	Evaluation of CFRP Application to PF-4 Roof Beams	5	Carryover – emergent
NFDI	SRS	SWPF SOT Review Part 2 (SIS)	5	Carryover – DOE delay
NFDI	UPF	UPF Preliminary Design Review	5	Carryover
NFDI	UPF	Uranium Alloys ARF/RF	5	Carryover
NFDI	UPF	Staff Safety Issue on ARF/RF	5	Emergent work
NFDI	WTP	WTP HEPA Design Qualification	5	Carryover
NFDI	WTP	LAW I&C Review	5	Carryover

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■ Blue text denotes unplanned emergent work (see page 2)

Table 7 – Engineering Performance New Reviews

Group	Project	Titles	Priority	Basis
EP	Performance	FY17 Performance and Accountability Report	ND	Emergent Work
EP	Internal Procedures	External Correspondence Working Group	6	Emergent Work

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**AFFIRMATION OF BOARD VOTING RECORD**

**SUBJECT: FY18 Work Plan RFBA Response**

**Doc Control#2018-300-027**


The Board, with Board Member(s) Bruce Hamilton, Daniel J. Santos, Joyce L. Connery *approving*, Board Member(s) none *disapproving*, Board Member(s) Jessie H. Roberson *abstaining*, and Board Member(s) none *not participating*, has voted to approve the above document on March 9, 2018.

The votes were recorded as:

	APRVD	DISAPRVD	ABSTAIN	NOT PARTICIPATING*	COMMENT	DATE
Bruce Hamilton	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	03/06/18
Jessie H. Roberson	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	03/08/18
Daniel J. Santos	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	03/09/18
Joyce L. Connery	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	03/06/18

\*Reason for Not Participating:

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

  
 \_\_\_\_\_  
 Executive Secretary to the Board

Attachments:

1. Voting Summary
2. Board Member Vote Sheets

cc: Board Members  
 OGC  
 OGM Records Officer  
 OTD

**DEFENSE NUCLEAR FACILITIES SAFETY BOARD  
NOTATIONAL VOTE RESPONSE SHEET**

**FROM: Bruce Hamilton**

**SUBJECT: FY18 Work Plan RFBA Response**

**Doc Control#2018-300-027**

**Approved   X                        Disapproved                             Abstain**

**Recusal – Not Participating**

**COMMENTS:            Below                   Attached                   None   X**

  
**Bruce Hamilton**

  6 MAR 2018    
**Date**

**DEFENSE NUCLEAR FACILITIES SAFETY BOARD  
NOTATIONAL VOTE RESPONSE SHEET**

**FROM:** Jessie H. Roberson

**SUBJECT:** FY18 Work Plan RFBA Response

**Doc Control#**2018-300-027

**Approved** \_\_\_\_\_

**Disapproved** \_\_\_\_\_

**Abstain** \_\_\_\_\_

**Recusal – Not Participating** \_\_\_\_\_

**COMMENTS:**

**Below** \_\_\_\_\_

**Attached** \_\_\_\_\_

**None** \_\_\_\_\_

  
\_\_\_\_\_  
Jessie H. Roberson

  
\_\_\_\_\_  
Date

**DEFENSE NUCLEAR FACILITIES SAFETY BOARD  
NOTATIONAL VOTE RESPONSE SHEET**

**FROM: Daniel J. Santos**



**SUBJECT: FY18 Work Plan RFBA Response**

**Doc Control#2018-300-027**

**Approved**  **Disapproved** \_\_\_\_\_ **Abstain** \_\_\_\_\_

**Recusal – Not Participating** \_\_\_\_\_

**COMMENTS:** **Below** \_\_\_\_\_ **Attached** \_\_\_\_\_ **None**

  
\_\_\_\_\_  
**Daniel J. Santos**  
  
\_\_\_\_\_  
**Date**

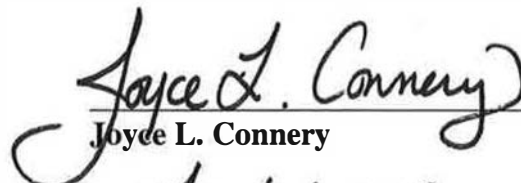
**DEFENSE NUCLEAR FACILITIES SAFETY BOARD  
NOTATIONAL VOTE RESPONSE SHEET**

**FROM:** Joyce L. Connery  
**SUBJECT:** FY18 Work Plan RFBA Response  
**Doc Control#**2018-300-027

Approved   X                        Disapproved                             Abstain         
Recusal – Not Participating       

**COMMENTS:**      Below   X        Attached             None       

I appreciate the update provided by staff and the clarification with regards to work plan activities. I expect that future quarterly reports will be provided but I do not support having an orange folder process each time the Work Plan is updated. The plan needs to be flexible to accommodate both emerging work—Board and staff identified, to react to changes in DOE’s schedule that may impact work, and to be responsive to our staffing levels and capabilities which can fluctuate with retirements, staff details, skills gaps, and training needs. Our technical staff and technical director should keep the Board informed of changes that occur and have altered procedures in order to do so at the request of some Board Members. I believe this is sufficient to provide the Board with the information and insight in needs with regards to the work plan.

  
\_\_\_\_\_  
Joyce L. Connery  
March 6, 2018  
\_\_\_\_\_  
Date