



Department of Energy

Washington, DC 20585

March 7, 2006

The Honorable A. J. Eggenberger
Chairman
Defense Nuclear Facilities Safety Board
625 Indiana Avenue, N.W.
Suite 700
Washington, D.C. 20004-2941

Dear Mr. Chairman:

This letter provides the National Nuclear Security Administration (NNSA) and the Office of Environmental Management (EM) *Listing of Hazard Category 3 Defense Nuclear Facilities with an Active Confinement Ventilation System* consistent with Commitment 8.4 of the Department of Energy's (DOE) Implementation Plan for Defense Nuclear Facilities Safety Board (DNFSB) 2004-2, *Active Confinement Systems*.

These listings were prepared at the sites, and were reviewed and approved by NNSA and EM line management and the Central Technical Authorities.

The next actions in the Implementation Plan require confinement ventilation system reviews in accordance with the *Ventilation System Evaluation Guidance for Safety-Related and Non-Safety-Related Systems* that was previously submitted as Deliverables 8.5.4 and 8.7. We are considering revising the review schedules that are established in the Implementation Plan. DOE will continue to work with your staff to coordinate this proposed revision and to complete the actions in the Implementation Plan.

If you have any questions, please contact me at (301) 903-0104.

Sincerely,

A handwritten signature in black ink that reads "Richard Black".

Richard Black

Director

Office of Nuclear and Facility Safety Policy

Enclosure

cc:

M. Whitaker, DR-1
J. McConnell, NA 2.1
C. Lagdon, US-1
D. Chung, EM-24





Department of Energy
National Nuclear Security Administration
Washington, DC 20585



FEB 28 2016

MEMORANDUM FOR: Richard L. Black
Director
Office of Nuclear and Facility
Safety Policy

FROM: Jerald S. Paul *Jerald S. Paul for Jerry Paul*
NNSA, Central Technical Authority

SUBJECT: National Nuclear Security Administration Input for
Commitment 8.4 of Defense Nuclear Safety Board
Recommendation 2004-2

The attached listing provides the National Nuclear Security Administration (NNSA) *Listing of Hazard Category 3 Defense Nuclear Facilities with an Active Confinement Ventilation System* as delineated in Commitment 8.4 of the Implementation Plan (IP) for Defense Nuclear Facilities Safety Board (DNFSB) Recommendation 2004-2, *Active Confinement Systems*.

The appropriate concurrences are included under each site office as specified in the Commitment 8.4 deliverable, and in the IP that states "The CTA and PSO will review and concur with the facilities listed".

If you have any further questions, please contact Mr. James McConnell, NNSA Chief of Defense Nuclear Safety, at (202) 586-4379.

Attachment

cc: M. Whitaker, DR-1

U. S. Department of Energy
National Nuclear Security Administration

*Listing of Hazard Category 3 Defense Nuclear Facilities
With an Active Confinement Ventilation System*

**Commitment 8.4 of
Implementation Plan for Defense Nuclear
Facilities Safety Board Recommendation 2004-2**



Washington, D.C. 20585

February 2006

Introduction:

This document represents the National Nuclear Security Administration (NNSA) *Listing of Hazard Category 3 Defense Nuclear Facilities with an Active Confinement Ventilation System*, to satisfy Commitment 8.4 in DOE's Implementation Plan for Board Recommendation 2004-2.

Section 7.5 of the DOE's Implementation Plan states: "*For hazard category 3 defense nuclear facilities with an active confinement ventilation system that are not excluded in the Recommendation 2004-2 Exclusion Report, a facility listing will be prepared and submitted for site or field office review and approval. The appropriate CTA and PSO will review this listing and provide concurrence. No further evaluation as part of this implementation plan is required for these facilities since these facilities have only localized consequences, and therefore the safety function of a ventilation system is primarily for in-facility workers, not as a confinement for protection of collocated workers. The 2004-2 Core Team will oversee the adequacy of this process.*"

The facility listing was tabulated and submitted for NNSA site office review and approval and Central Technical Authority (CTA) and Program Secretarial Office (PSO) concurrence. These signatures are displayed as part of the Table below.

The format for the NNSA Table the *Listing of Hazard Category 3 Defense Nuclear Facilities with an Active Confinement Ventilation System* provides the following information:

- Facility name
- Brief description of the facility and summary of system classification for the ventilation system
- Current Status
- Comments, as needed.

Los Alamos National Laboratory

Facility	Description and System Classification	Current Status	Comments
LANSCE 1L Target (TA-53-7)	The 1L target consists of two tungsten targets producing neutrons from a linear accelerator beam of 800Mev protons at 150µa. Building HVAC and HEPA filters are designated as Safety Significant systems.	Active Facility	

Submitted By:

Charles Schly NNSA/LASO 2/10/06

Signature

Organization

Date

Approved By:

Charles Schly for E. W. ... NA-2.1 2/10/06

Signature

Organization

Date

PSO Concurrence:

[Signature] NNSA/NA-70 2/10/06

Signature

Organization

Date

CTA Concurrence:

[Signature] NA-2.1 for Jerry Paul 2/10/2006

Signature

Organization

Date


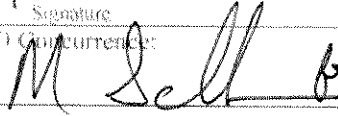
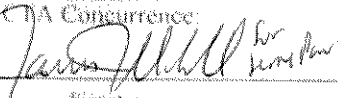
Lawrence Livermore National Laboratory

Facility	Description and System Classification	Current Status	Comments
Building 331 (includes Tritium Facility Modernization)	Glovebox exhaust for H3 is an active defense in depth system. Tritium gloveboxes are safety significant passive systems, and the structure, containers/drums are passive defense in depth systems. B331, the Tritium Facility, is currently being used primarily for tritium recovery and for some actinide experiments.	Undergoing a major modification. Active Facility	Building structure is being considered for upgrade to a TSR Design Feature, and those portions of the structure that support the SS gloveboxes will be designated as SS.
Building 334	Active building ventilation system is not safety related. HEPA filters and associated ducting is a passive safety significant system. Containers are a passive defense in depth system. B334 is an engineering test facility.	Active Facility	
B696S	Active HEPA ventilation system is a defense in depth system. Glovebox is a passive safety significant system. Glovebox room and drum crusher are passive defense in depth systems. B696S and B695 have a single DSA and together are considered a single facility, which is used for decontamination and treatment of radioactive waste.	Active Facility	Glovebox is planned only for LLW at this time. Glovebox operations have not been authorized pending completion of RA. Only LLW is allowed in Drum Crusher.
B695	Active HEPA ventilation system is a defense in depth system. Passive systems include the TRU Waste Container (SS), Chopper/shredder (JID), and Radioisotope Glovebox, Inert Atmosphere Glovebox and Combination Hazards Glovebox all of which are not safety related. B696S and B695 have a single DSA and together are considered a single facility, which is used for decontamination and treatment of radioactive waste.	Active Facility	Workers will use PPE when Chopper/shredder batches exceed 0.52 PE-Ci. Chopper/shredder operations have not been authorized pending completion of RA. Only small quantities of LLW are allowed in these gloveboxes, which are used for sampling. Gloveboxes have HEPA filtration.

Submitted By: [Signature] TECHNICAL SERVICES 2/9/06
 Signature: _____ Organization: _____ Date: _____
 PSO Concurrence: [Signature] by NNSA/NA-10 2/22/06
 Signature: _____ Organization: _____ Date: _____

Approved By: [Signature] 2/9/06
 Signature: [Signature] N. Natchane Organization: _____ Date: 2/9/06
 CFA Concurrence: [Signature] NA-21 for Jerry Post 2/16/06
 Signature: _____ Organization: _____ Date: _____

Y12 Site

Facility	Description and System Classification	Current Status	Comments
9201-5 Complex	The 9201-5 complex manufactures and stores depleted uranium and other hazardous material components. Active ventilation system with HEPA is a defense in depth system. The building structure is a passive safety significant system and containers are a passive defense in depth system.	Active Facility	Active CVS is a partial system referring to a system that provides ventilation to a process area, a process, or a glovebox
Submitted By: <i>Anisa Polubias</i> Y-12 Site Office 2/13/06 <small>Signature Organization Date</small>		Approved By:  Y-12 S.L. Office 2/13/06 <small>Signature Organization Date</small>	
PSO Concurrence:  NNSA/NA-10 2/27/06 <small>Signature Organization Date</small>		NA Concurrence:  NA-2.1 2/16/2006 <small>Signature Organization Date</small>	



Department of Energy
Washington, DC 20585

JAN 26 2006

MEMORANDUM FOR RICHARD L. BLACK

DIRECTOR, OFFICE OF NUCLEAR
AND FACILITY SAFETY POLICY
OFFICE OF ENVIRONMENT,
SAFETY AND HEALTH

FROM:

DR. INÉS R. TRIAY *Inés Triay*
CHIEF OPERATING OFFICER FOR
ENVIRONMENTAL MANAGEMENT

SUBJECT:

Transmittal of List of Office of Environmental
Management Hazard Class 3 Facilities with Active
Confinement Ventilation Systems

The purpose of this memorandum is to transmit the List of Office of Environmental Management (EM) Hazard Class 3 Facilities with Active Confinement Ventilation Systems to satisfy Commitment 8.4 of the *Department of Energy Implementation Plan for Defense Nuclear Facilities Safety Board Recommendation 2004-2, Active Confinement Systems*, August 2005. The attached lists were developed in accordance with the guidance and criteria contained in *Listing of Hazard Category 3 Defense Nuclear Facilities with an Active Confinement Ventilation System*, August 2005. The lists were prepared and approved at each of the EM sites. My office has approved the submittal with the concurrence of the Chief of Nuclear Safety.

If you have any questions, please call me at (202) 586-0738 or Mr. Dae Y. Chung, Acting Deputy Assistant Secretary for Integrated Safety Management and Operations Oversight, at (202) 586-5151.

Attachment

cc: R. Lagdon, CNS-ESE
D. Chung, EM-3.2



Listing of Hazard Category 3 Defense Nuclear Facilities with an Active Confinement Ventilation System

Savannah River Site

Facility Segment/Section	BLDG.	Description	EXCLUSION CRITERIA	COMMENTS JUSTIFICATION	Owner
Analytical Labs NR Facilities	772001F	Process Control 772-1F Laboratory	Haz 3 Active Ventilation	Confinement ventilation is passive with active GS components (Main and Off Gas Exhaust Systems (SS passive components))	F/H Lab
H/H-Other	299000H	W/M Maintenance Facility	Haz 3 Active Ventilation	Active high bay ventilation system (PS) Passive WCT (PS) WCT Cell (PS)	LWDP
SRNL Technical NR Facilities	776003A	Strainer Change House	Haz 3 Active Ventilation	Active confinement ventilation (GS)	SRNL
SRNL Technical NR Facilities	776002A	Tank Building	Haz 3 Active Ventilation	Active confinement ventilation (GS)	SRNL
SRNL Technical NR Facilities	776004A	High Level Vent Filter House	Haz 3 Active Ventilation	Active confinement ventilation (GS)	SRNL
SRNL Technical NR Facilities	776005A	Tank Building Vent Area	Haz 3 Active Ventilation	Active confinement ventilation (GS)	SRNL
SRNL Technical NR Facilities	776006A	Waste Loading Station	Haz 3 Active Ventilation	Active confinement ventilation (GS)	SRNL
Saltstone Process/Control NR Facilities	210000Z	Process Building	Haz 3 Active Ventilation	Active confinement ventilation	Waste Solidification
Saltstone Process/Control NR Facilities	704000Z	Saltstone Operations Building	Haz 3 Active Ventilation	Actual inventories are below Haz Cat 3 thresholds, typical of a Radiological Facility.	Waste Solidification

Hazard Category Key:

- 1. Hazard Category 1
- 2. Hazard Category 2
- 3. Hazard Category 3
- R Radiological Facility
- High High Hazard Chemical
- Low Low Hazard Chemical
- OI Other Industrial Fac.

(3) Supports a Nuclear Facility

Does not contain any inventory

Owner Key

- DP - Defense Programs
- F/H Lab - F/H Area & Ops Project
- F-Area CP - F Area Closure Project
- FSS - Field Support Services Business Unit
- H-Area CP - H Area Completion projects
- I&S - Infrastructure & Services
- LWDP - Liquid Waste Disposition Project
- NMM - Nuclear Materials Management
- NNP - Nuclear Nonproliferation Program
- PD&CS - Projects Dept & Construction Services

SFP - Spent Fuels Project

- SGCP - Soil & Groundwater Closure Project
- SRNL - Savannah River National Laboratory
- SUD - Site Utilities Department
- SWMF - Solid Waste Management Facility


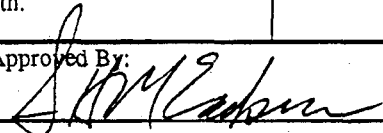
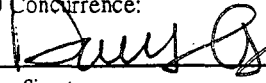
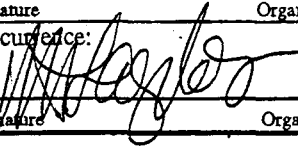
S&M - Surveillance & Maintenance

Listing of Hazard Category 3 Defense Nuclear Facilities with an Active Confinement Ventilation System

Submitted by: <i>J. D. TOWNSEND FOR M. S. MILLER</i> <hr/> Signature: <i>[Signature]</i> Organization: <i>WASTE SOLIDIFICATION</i> Date: <i>12/7/05</i>	Submitted by: <hr/> Signature: <i>NA</i> Organization: <i>NA</i> Date:
Submitted by: <hr/> Signature: <i>[Signature]</i> Organization: <i>LWDP</i> Date: <i>12/7/05</i>	Submitted by: <hr/> Signature: <i>NA</i> Organization: <i>NA</i> Date:
Submitted by: <hr/> Signature: <i>[Signature]</i> Organization: <i>SRNL</i> Date: <i>12/7/05</i>	Submitted by: <hr/> Signature: <i>NA</i> Organization: <i>NA</i> Date:
Submitted by: <hr/> Signature: <i>[Signature]</i> Organization: <i>FHLLAB</i> Date: <i>12/16/05</i>	Submitted by: <hr/> Signature: <i>NA</i> Organization: <i>NA</i> Date:
Submitted by: <hr/> Signature: <i>NA</i> Organization: <i>NA</i> Date:	Submitted by: <hr/> Signature: <i>NA</i> Organization: <i>NA</i> Date:

Approved by:		
Signature	Organization	Date
<i>[Signature]</i>	<i>ENR 3.2</i>	<i>1/23/06</i>
PSO Concurrence:	Signature	Date
<i>[Signature]</i>	<i>[Signature]</i>	<i>1/24/06</i>
CTA Concurrence:	Signature	Date
<i>[Signature]</i>	<i>[Signature]</i>	<i>1/24/06</i>

Listing of Hazard Category 3 Defense Nuclear Facilities with an Active Confinement Ventilation System

Oak Ridge Office - Environmental Management				
Facility	Site/ Location	Description	Current Status	System Classification
3038 Isotope Development Laboratory	ORO/ORNL	Former radio-chemical laboratory consisting of gloveboxes and hotcells. Differential pressure instrumentation for the alpha handling facility hot cell glove box process off-gas system is safety significant. Building ventilation and HEPA filters are defense-in-depth.	Surveillance and Maintenance	Safety Significant
Submitted By:		Approved By:		
				
Signature		ORO-EM	Date	Date
12/1/2005		12/1/05		
PSO Concurrence:		CTA Concurrence:		
				
Signature		EM3.2	Date	Date
1/23/06		33 1/24/06		

Listing of Hazard Category 3 Defense Nuclear Facilities with an Active Confinement Ventilation System


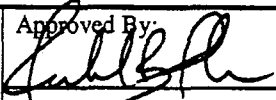

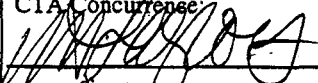
Office of River Protection - Office of Environmental Management				
Facility	Site/ Location	Description	Current Status	System Classification
Demonstration Bulk Vitrification Facility*	Hanford / 200 Area	Process Low Activity Waste into glass	In design	Safety significant
222-S Laboratory	Hanford/200 Area	Active waste analytical laboratory/building	Operational	Non Safety Related
Submitted By:			Approved By:	
<i>Jeanie H. Leiby</i> ORP-AMTF 12/17/05 <small>Signature Organization Date</small>			<i>Shirley J. Olgin</i> DOE-ORP 12/17/05 <small>Signature Organization Date</small>	
PSO Concurrence:			CTA Concurrence:	
<i>Dwight S</i> EM3.2 1/23/06 <small>Signature Organization Date</small>			<i>[Signature]</i> 33 1/24/06 <small>Signature Organization Date</small>	

* Demonstration Bulk Vitrification Facility Hazard Categorization per DOE Memo 05-TPD-117

Listing of Hazard Category 3 Defense Nuclear Facilities with an Active Confinement Ventilation System

Office of River Protection - Office of Environmental Management				
Facility	Site/ Location	Description	Current Status	System Classification
WTP Analytical Laboratory	Waste Treatment Plant	Analytical Laboratory	Under construction	Ventilation system only credited for passive confinement function
WTP Low Activity Waste Facility	Waste Treatment Plant	Process Low Activity Waste into glass	Under construction	Non-safety related
Submitted By:		Approved By:		
<i>[Signature]</i>		<i>[Signature]</i>		
Signature	Organization	Date	Signature	Organization
	DOE-ORP-AMWTP	12-12-05	DOE-ORP	12/13/05
PSOC Concurrence:		CTA Concurrence:		
<i>[Signature]</i>		<i>[Signature]</i>		
Signature	Organization	Date	Signature	Organization
		1/23/06	S3	1/24/06

**Listing of Hazard Category 3 Defense Nuclear Facilities with an Active Confinement Ventilation System
 Per DNFSB Recommendation 2004-2 Commitment 8.4**

Idaho Cleanup Project				
Facility	Site/ Location	Description	Current Status	System Classification
CPP-666, FAST Fluorinel Dissolution Process Area (FDPA)	INL/INTEC	Current FDPA facility operations are limited to routine maintenance and surveillance, with one exception: the sampling, storage, repackaging, and removal of contaminated dissolver off-gas and cell off-gas filters.	In Transition. Awaiting D&D.	Not classified as safety-significant but identified as equipment important to safety. System shared with the Fuel Storage Area of CPP-666, which has a HC2 categorization.
Remote Analytical Laboratory (RAL)	INL/INTEC	These INTEC laboratories are primarily analytical and developmental facilities designed for chemical and radiochemical analyses and for bench scale development work. These facilities receive and process both radioactive and nonradioactive samples.	Operational	Not classified as safety-significant but identified as equipment important to safety.
Submitted By:		Approved By:		
				
Signature	Organization	Date	Signature	Organization
	CWE	12/5/05	DOE-10	12/8/05
PSO Concurrence:		CTA Concurrence:		
				
Signature	Organization	Date	Signature	Organization
	EM3.2	1/23/06	S3	1/24/06