

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,

Richard Black

Director

Office of Nuclear and Facility Safety Policy

Enclosure

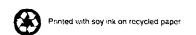
cc:

M. Whitaker, DR-1

J. McConnell, NA 2.1

C. Lagdon, US-1

D. Chur.g, EM-24



SEPARATION PAGE



Department of Energy National Nuclear Security Administration

Washington, DC 20585

FE6 2 8 2008

MEMORANDUM FOR:

Richard L. Black

Director

Office of Nuclear and Facility

Safety Policy

FROM:

Jerald S. Paul Jan Jell Il har Juny Par 1

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 an	d System Cla	ssification	Current Status	Comm	ents		
LANSCE L Target (TA-53-7)	The 1L target consists on neutrons from a linear a protons at 150µa. Build designated as Safety Sig	ccelerator beam ling HVAC and	of 800Mev HEPA filters are	Active Facility				
Submitted By: Submitted By: Approved By: Subley prewater 2/10/04								
PSO Concurrence:	Organization NNSA/NA%	2/32/6k	Signature CPA Concurrence	What Jeny la	İ	Date /16/2006		
Signature	Organization	Date	Signature	Organi	zation	Date		

	Lawrenc	Lawrence Livermore National Laboratory	boratory	
Facility	Description and System Classification	a Chasilication	Current Status	Comments
Building 331 (anchodes Teirium Pscility Medemizstion)	Glovebox exhaust for H3 is an active defense in depth system. Trithun gloveboxes are safety rignificant passive systems, and the structure, containers draws are passive defense in depth systems. B331, the Tritium Fachity, is currently being used primarily for tritium recovery and for some activide experiments.	Ernse in depth system. Thislum systems, and the structure, depth systems. Sopth systems. Sopth systems ity for tritium one.	Undergoing a major codification. Active Facility	Builting structure is being considered for upgrade to a TSR Design Feeture, and these peribess of the structure that support fire SS gloveboxes will be designated as SS.
Building 3]¢	Active building ventilation system is not safety related. HEPA Gibers and associated ducting its a parrive asfety significant system. Containers are a passive defease in depth system.	safety related, HEPA fahers / significant system. 1 System.	Active Facility	
	3.334 is an engineering test facility.			
B6963	Active HBPA ventlation system is a defence in depth system. Glovebox is a passive rafety significant system. Glovebox room and draw cursing are passive defence in depth systems. B 696S and B 695 have a single DSA and together are considered a single facility, which is used for decombinisation and treatment of radioactive waste.	rase in depth system. yaken. Gioveben room and it system. lagether are considered a relation and treatment of	Active Facility	Gieverbox is planned only for LLW at this time. Glovebea operations have not been subtained pending completion of BA. Only LLW is allowed in Drum Gradies.
) B495	Activo HEPA ventilation system is a defense in depth system. Passive systems include the TRU Waste Container (SS), Chopperfacedder (JID), and Radio inchape (Hovebox, Lacit Atransphere Giovebex and Combination Harards Giovebox all of which are not safety related. B696S and H695 have a single USA and together are considered a single facility, which is used for decontamination and traducate and multoseffive waste.	zee in depth system. Passive ir (SS), Chopportatrodder Atmosphere Giovebex and sich are sot safety related. together are considered a together and trackagas of	Active Facility	Workers will use PPE when Chapperhiteddar betcher exceed 0.52 PE-Ci. Chapper / shedder opmeisers have not been emborized pending completion of BA. Only small quentiles of LLW are allowed in these gloveboxes, which are used for escriping. Gloseboxes have HEPA Iditation.
Schmilled By	on recently seemiles	18 17 mater 90/4/2	W. X	May
Signature	Organization	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	N. Nake	Organization 2/9/00 Dare
PSO MACHINERICA:	by MUSALUA-10 2/28/20	CFA Constant	uno Mu	Let for demotion 2/4/eac
Signature	Опройганіст	Date Signature	//	and and an adjustment of

Y12 Site							
Facility	Description and System Classification	Current Status	Comments				
9201-5 Complex	The 9201-5 complex manufactures and stores depleted transium 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 glovehox				
Submitted By: Approved By: Approved By: U-125, L. Office 2/13/06 Segment Organization Date Signature Organization Usu: PS(1) Genfeurrence: A Consurrence: A Consurrence:							
September 1	MUSA/NATO 2/20/06 Jano HAN ganization Date Signature	~XII	-2.1 2 /1/2006 HEXIVAL 12.115				

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SEPARATION



Department of Energy

Washington, DC 20585

JAN 2 6 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

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

R. Lagdon, CNS-ESE

D. Chung, EM-3.2

Facility Segment/Section	BLDG	Description	EXCLUSION CRITERIA	COMMENTS JUSTIFICATION	Owner -
Analytical Labs NR Facilities	772001F	Process Control 772-1F Laboratory	1	Confinement ventilation is passive with active GS components Main and Off Gas Exhaust Systems (SS passive components)	F/H Lab
HTF-Other	299000H	VVM Maintenance Facility		Active high bay ventilation system (PS) Passive WCT (PS) WCT Cell (PS)	LWOP
SRNL Technical NR Facilities	77600JA	Strange Change House	Haz 3 Active Ventilation	Active confinement ventilation (GS)	SRNL
SRNL Technical NR Focilities	776002A	Tank Building	Haz 3 Active Ventilation	Active confinement ventilation (GS)	SRNL
SRNL Technical NR Facilities	776904A	High Lovel 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 verifiation (GS)	SRNL
SRNL Technical NR Facilities	776006A	Waste Looting Station	Haz 3 Active Ventilation	Active confinement ventilation (GS)	SRNL
Suitstone Process/Control NR Facilities	210000Z	Process Building	Haz 3 Active Ventilation	Active confinement ventilation	Waste Solidification
Saltstone Process/Control NR Facilities	704000Z	Satistone Operations Building		Actual inventiones are below Haz Cat 3 thresholds, typical of a Radiological Facility.	Waste Solidification

Hazard Category Key:

T. Hazard Calegory 1

2 Hazard Category 2

3. Hazard Calegory 3

R Radiological Facility

High High Hazard Chemical

Low, Low Hazard Chemical Of Other Industrial Fac.

[3] Supports a Nuclear Escility

Does not contain any inventory

Owner Key

DP - Defense Programa

F/H Lab - F/H Ares & Ops Project

F-Area CP - F Area Clasura Project

FSS - Field Support Services Business Unit

H-Area CP - H Area Completion projects

18S - Infrastructure & Services

LWDP - Liquid Waste Disposition Project

NMM - Nuclear Materials Management

NNP - Nuclear Nonproliteration Program

PD&CS - Projects Dept & Construction Services

SFP - Spont Fuels Project

SGCP - Soil & Groundwater Closure Project

SRNL - Sevannah River National Laboratory

SUD - Site Utilities Department

SWMF - Solid Waste Management Facility

S&M = Surveillance & Maintenance

Submitted by: J.	D. TOWNSOND FOR M.S. MIL	ike	Submitted by:		
Monad Signature	WASTE SalAGRATION Organization	/2/-/63* Date	Signature	NA Organization	Date
Submitted by:			Submitted by:		
	LWDP	12/7/05		NA	
Signature	Organization	Date	Signature	Organization	Date
Submitted by:	Λ .		Submitted by:		
Court	FATTE SRNL	12/7/05		NA	
Signature	Organization	Date	Signature	Organization	Date
Submitted by:			Submitted by:		
Resal- zzort	OR R. Classer FIHLAS	b/8/65		NA	·
Signature Duto	lacon Organization	Date	Signature	Organization	Date
Submitted by:			Submitted by:		
	NA			NA	
Signature	Organization	Date	Signature	Organization	Date

Approved by:		
Signature	Organization	Date
PSO Cancurrence	En 32	1/23/06
Signature	Organization	Date
CTA Conditions Signature	Creanization	1/24/06 Date

Oak Ridge Office - Environmental Management							
Facility	Site/ Location	Description		Current Status	System Classification		
3038 Isotope Development Laboratory	ORO/ORNL	Former radio-chemical laboratory consisting Differential pressure instrumentation for the cell glove box process off-gas system is safe ventilation and HEPA filters are defense-in-	alpha handling facility hot ty significant. Building	Surveillance and Maintenance	Safety Significant		
Submitted By:	all &	ORO-EM 12/1/2005 Organization Date	Approved By:	ORD-EM Organization	12/1/05 Date		
PSO Concurrence	y B	GM 3.2 1/28/06 Organization Date	CTA Concurrence:	Organization	1/24/06 Date		

	Office of River Protection - Of	fice of Environmental Managemen	t
Site/ Location	Description	Current Status	System Classification
Hanford / 200 Area	Process Low Activity Waste into glass	In design	Safety significant
Hanford/200 Area	Active waste analytical laboratory/building	Operational	Non Safety Related
l. slely	Organization Date	Signature CTA Construction / 2	00E-028 12/3/05 Organization Date 33 1/24/06
	Location Hanford / 200 Area Hanford/200 Area	Site/ Location Hanford / 200 Area Process Low Activity Waste into glass Hanford/200 Active waste analytical laboratory/building Area laboratory/building Location 12/13/65 Organization Date 1/23/65	Hanford / 200 Area Hanford/200 Active waste analytical laboratory/building Operational Approved By: Organization Date Signature CTA Consumerates: CTA Consumerates: CTA Consumerates: And Approved By: CTA Consumerates: CTA Consumerates: CTA Consumerates: Approved By: CTA Consumerates: Approved By: CTA Consumerates: CTA Consumerates: CTA Consumerates: Approved By: CTA Consumerates: CTA Consumerates: Approved By: CTA Consumerates: CTA Consu

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

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:		DOE -ORP-AMWTP 12-12 Organization Date	Signature	DOE-DRP 12/13/05- Organization Date					
ASO Concurrence Signature	uje	Organization Date	CTA Concurrence:	— S3 1/24/06 Organization Date					

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: Signature PSO Concurrence Signature	·	CWE 12/5/55 Approved By: Organization Date Signature CTA Concurrence: Organization Date Signature	Organization Organization)2/8/05 Date //24/06				