

TO: G.C. COMFORT
FROM: B.J. HOFFMAN

WV-52 TEL: 716 942-4572

NRC HEADQUARTERS

DATE: 01/23/97
PAGE: 1

TRANSMITTAL NUM: 000008796

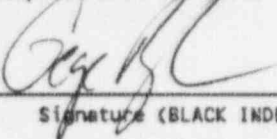
CONTROLLED COPY TRANSMITTAL / RECEIPT ACKNOWLEDGEMENT

Attached is a CONTROLLED COPY of the following document(s) and its applicable index. Add or replace your existing copy with the attached.

CONTROLLED COPY#	PROC ID	REV#	FC#	ISSUE DATE	PROCEDURE TITLE
010	PSR-8	1	1	01/23/97	FIRE PROTECTION SYSTEMS REQUIREMENTS

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I have complied with the above instructions:



Signature (BLACK INDELIBLE INK ONLY)

1/22/97

Date

RETURN BY: 02/06/97

FOR YOUR CONVENIENCE, A SELF-ADDRESSED, STAMPED ENVELOPE HAS BEEN INCLUDED.

9702040298 970120
PDR PROJ
M-32 PDR

DATE: 01/23/97
TIME: 13:15

PROCESS SAFETY REQUIREMENTS
WVDP-218
INDEX

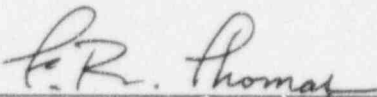
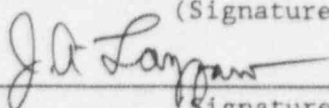
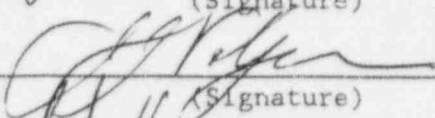
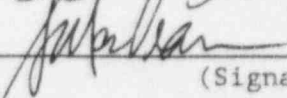
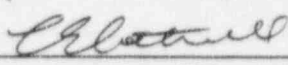
PAGE: 1

<u>PROC ID</u>	<u>REV</u>	<u>FC</u>	<u>PROCEDURE TITLE</u>	<u>STATUS</u>	<u>ISSUE DATE</u>	<u>COGNIZANT MANAGER</u>
WVDP-218	7		PREFACE FOR PROCESS SAFETY REQUIREMENTS	ACTIVE	08/09/96	LAZZARO, J.A.
WVDP-218	7	1	PREFACE FOR PROCESS SAFETY REQUIREMENTS	ACTIVE	11/19/96	LAZZARO, J.A.
PSR-1	1		REQUIREMENTS FOR LIQUID TRANSFERS OF FISSILE MATERIAL	ACTIVE	03/15/96	POTTS, W.J.
PSR-2	1		MAIN PLANT STACK AIRBORNE EFFLUENT SAMPLING SYTEM REQUIREMENTS	ACTIVE	03/15/96	POTTS, W.J.
PSR-3	1		BUILDING AND VESSEL VENTILATION SYSTEM REQUIREMENTS	ACTIVE	03/15/96	POTTS, W.J.
PSR-5	1		STANDBY AND BACKUP POWER REQUIREMENTS	ACTIVE	03/15/96	POTTS, W.J.
PSR-6	1		FISSILE MATERIAL PACKAGING AND STORAGE REQUIREMENTS	ACTIVE	07/10/96	KLAMIAN, P.S.
PSR-7	1		EVACUATION ALARM, EMERGENCY PAGING SYSTEM, AND SHELTERING ALARM REQUIREMENTS	ACTIVE	03/15/96	WINGER, P.G.
PSR-8	1		FIRE PROTECTION SYSTEMS REQUIREMENTS	ACTIVE	03/15/96	WINGER, P.G.
PSR-8	1	1	FIRE PROTECTION SYSTEMS REQUIREMENTS	ACTIVE	01/23/97	WINGER, P.G.
PSR-10	2		HIGH-LEVEL WASTE TANK LEAK DETECTION SYSTEM REQUIREMENTS	ACTIVE	05/08/96	MEESS, D.C.
PSR-11	1		HIGH-LEVEL WASTE TANK SPARE CAPACITY REQUIREMENTS	ACTIVE	03/15/96	MEESS, D.C.
PSR-12	2		VITRIFICATION FACILITY VENTILATION AND OFF-GAS SYSTEMS REQUIREMENTS	ACTIVE	03/28/96	MEESS, D.C.
PSR-12	2	1	VITRIFICATION FACILITY VENTILATION AND OFF-GAS SYSTEMS REQUIREMENTS	ACTIVE	07/11/96	MEESS, D.C.
PSR-12	2	2	VITRIFICATION FACILITY VENTILATION AND OFF-GAS SYSTEMS REQUIREMENTS	ACTIVE	10/07/96	MEESS, D.C.
PSR-13	2		VITRIFICATION FACILITY STANDBY POWER REQUIREMENTS	ACTIVE	03/28/96	MEESS, D.C.
PSR-13	2	1	VITRIFICATION FACILITY STANDBY POWER REQUIREMENTS	ACTIVE	05/24/96	MEESS, D.C.
PSR-13	2	2	VITRIFICATION FACILITY STANDBY POWER REQUIREMENTS	ACTIVE	07/11/96	MEESS, D.C.
PSR-15	2		VITRIFICATION FACILITY NON-RADIOLOGICAL SYSTEM MONITORING REQUIREMENTS	ACTIVE	05/16/96	MEESS, D.C.
PSR-16	4		ANHYDROUS AMMONIA REQUIREMENTS	ACTIVE	10/30/96	MEESS, D.C.
PSR-16	4	1	ANHYDROUS AMMONIA REQUIREMENTS	ACTIVE	12/20/96	MEESS, D.C.
PSR-17	1		MINIMUM STAFFING LEVELS FOR SAFE FACILITY OPERATION	ACTIVE	08/05/96	LAZZARO, J.A.
PSR-9	1		TN-BRP AND TN-WEG SHIPPING CASK LID INSTALLATION	CANCELLED	03/15/96	LAZZARO, J.A.
PSR-14	1		VITRIFICATION FACILITY CONFINEMENT BARRIER REQUIREMENTS	CANCELLED	03/15/96	LAZZARO, J.A.

WEST VALLEY NUCLEAR SERVICES CO., INC.
RECORD OF FIELD/PAGE CHANGE

Document ID No. PSR-8 Rev. No. 1 FC/PC No. 1
Cognizant Author F. R. Thomas Date 1-14-97 Page 1 of 2

Approval Signatures:

<u>F. R. Thomas</u>	<u></u>	<u>1-16-97</u>
Cognizant Author (Printed Name)	(Signature)	Date
<u>J. A. Lazzaro</u>	<u></u>	<u>01/17/97</u>
Cognizant Manager (Printed Name)	(Signature)	Date
<u>J. J. Volpe</u>	<u></u>	<u>1/21/97</u>
R&SC (Printed Name)	(Signature)	Date
<u>S. A. MacVean</u>	<u></u>	<u>1/20/97</u>
(Printed Name)	(Signature)	Date
<u>T. E. Cottrell</u>	<u></u>	<u>4/12/97</u>
(Printed Name)	(Signature)	Date
_____	_____	_____
(Printed Name)	(Signature)	Date
_____	_____	_____
(Printed Name)	(Signature)	Date

1. USQD, WV-3306: ☐ Attached
☒ Not Attached; USQD Safety Exclusion Previously completed and sent to Records Management (per WV-914).
2. Cognizant Manager ☒ if FC/PC Constitutes a Periodic Review: ☒
3. Are other documents impacted by these changes: ☒ No
☐ Yes If Yes, complete WV-2006.

OPERATIONS PROCEDURES (SOPs/SIPs/DVPs) ONLY:

1. ☐ The following changes are Waste Form Acceptance Impacting.
☐ The following changes are Waste Form Acceptance Non-Impacting.
2. Walk-through Required on WV-3802 (Optional): ☐ No ☐ Yes
If Yes, signature indicating walk-through complete:

Operations Manager/Designee (Printed Name)	(Signature)	Date
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3. Training Required: ☐ No ☐ Yes

If yes, contact responsible Training Coordinator (if applicable) & initiate WV-1719.

WEST VALLEY NUCLEAR SERVICES CO., INC.
RECORD OF FIELD/PAGE CHANGE CONTINUATION FORM

Document ID No. PSR-8
FC/PC No. 1

Rev. No. 1
Page 2 of 2

[illegible]

WVNS RECORD OF REVISION

DOCUMENT

If there are changes to the controlled document, the revision number increases by one. Indicate changes by one of the following:

- Placing a vertical black line in the margin adjacent to sentence or paragraph that was revised.
- Placing the words GENERAL REVISION at the beginning of the text.
- Placing either FC#> or PC#> (whichever applies) in the left-hand margin at the beginning of the paragraph or section where the field/page change has been made AND placing a vertical black line in the margin adjacent to the actual change.

Example:

The vertical line in the margin indicates a change.

FC1> The FC#> in the margin along with the vertical line
line (redline) indicates a change.

Rev. No.	Description of Changes	Revision On Page(s)	Dated
0	Document approved - Reference Letter WD:95:0195, J. A. Lazzaro to T. J. Rowland "WVDP Process Safety Requirements (PSRs)," dated 03/03/95. Original document approved, but not issued through controlled distribution.	All	03/03/95
1	Incorporate DOE-WV comments received from review of Rev. 0. General Revision. DOE approval contained in Letter DW:96:0202, Dated 03/13/96	All	03/15/96
PC1	Incorporate DOE-WV comments received from DOE-WV surveillance S97-013E. Reference letter WFH:032:96-2009:96:01 (DW:96:1061) from W. F. Hamel to W. G. Poulson, "DOE West Valley Demonstration Project (DOE-WV) Surveillance S97-013E-DOE-WV Facility Representatives' Monthly Surveillance for November 1996", dated December 13, 1996. These changes are insignificant modifications per WV-365, Section 7.11, DOE approval is not required.	4	01/22/97

WVNS RECORD OF REVISION CONTINUATION FORM

<u>Rev. No.</u>	<u>Description of Changes</u>	<u>Revision On Page(s)</u>	<u>Dated</u>
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BASIS

FIRE PROTECTION SYSTEMS at the WVDP have been provided to mitigate the consequences of fires involving hazardous materials and to satisfy the life safety requirements specified by NFPA 101 "Code for Safety to Life from Fire in Buildings and Structures" (Life Safety Code) and fire protection program audits.

The New Warehouse, the Nitric Acid Day Tank at the Cold Chem Building, the External Ammonia Storage Tank at the 01-14 Building, and the External Sulfuric Acid Tank at the 02 Building are included in this PSR under PSR Criterion 2 because those areas are the only ones for which inventories of hazardous materials exceed the THRESHOLD PLANNING QUANTITY (TPQ).

The selection of the Administration Building (Annex), Trailer City, and the Main Plant Office Areas in PSR Criterion 3.f for inclusion in this PSR is based upon a variety of factors, such as human population density and residency times; and accessibility of a means of egress that permits safe and rapid evacuation to outside areas well away from the hazards posed by a burning structure.

It should be noted that the OPERABILITY statement for the wet pipe sprinkler systems, deluge sprinkler system, and fire hydrant also includes those systems, structures, and components necessary for storage and distribution of fire water.

ATTACHMENT

TABLE 1: Summary of Fire Protection Systems

REFERENCES

WVDP-177, WVDP Fire Protection Manual

40 CFR 355, Emergency Planning and Notification

NFPA 101, Code for Safety to Life from Fire in Buildings and Structures

Table 1: SUMMARY OF FIRE PROTECTION SYSTEMS

PC1>

AREA	TYPE OF FIRE PROTECTION	REASON FOR FIRE PROTECTION
Main Plant Office Area	Fire Detection, Alarms, and Wet Pipe Sprinkler System	Notification, automatic detection, and automatic fire suppression for means of egress.
Administration Building (Anner:)	Fire Detection, Alarms, and Wet Pipe Sprinkler System	Notification, automatic detection, and automatic fire suppression for means of egress.
DELETED		
Trailer City	Fire Detection, Alarms, and Dry Pipe Sprinkler System	Notification, automatic detection, and automatic fire suppression for means of egress.
New Warehouse	Wet Pipe Sprinkler System	Mitigate consequences of fire in a facility storing extremely hazardous materials exceeding the TPQ.
Cold Chem Building (Nitric Acid Day Tank 65-D-05)	Wet Pipe Sprinkler System	Mitigate consequences of fire in a facility storing extremely hazardous materials exceeding the TPQ.
External Ammonia Storage Tank 64-D-004 (01-14 Building)	Deluge Sprinkler System	Mitigate consequences of fire in a facility storing extremely hazardous materials exceeding the TPQ.
External Sulfuric Acid Tank 35157 (02 Building)	Fire Hydrant (No. 12)	Mitigate consequences of fire in a facility storing extremely hazardous materials exceeding the TPQ.