

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

WV-52 TEL: 716 942-4572

WRC HEADQUARTERS

DATE: 12/23/96

PAGE: 1

TRANSMITTAL NUM: 000008681

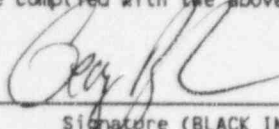
CONTROLLED COPY TRANSMITTAL / RECEIPT ACKNOWLEDGEMENT

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-16	4	1	12/20/96	ANHYDROUS AMMONIA REQUIREMENTS

Copies made from a controlled document MUST be marked UNCONTROLLED before distribution. Signature below signifies all previous revisions, if applicable, have been destroyed or marked superseded.

I have complied with the above instructions:



Signature (BLACK INDELIBLE INK ONLY)

1/27/97

Date

RETURN BY: 01/06/97

040052

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

9702040281 961218
PDR PROJ
M-32 PDR

DATE: 12/23/96
TIME: 10:53

PROCESS SAFETY REQUIREMENTS
WVDP-218
INDEX

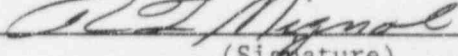
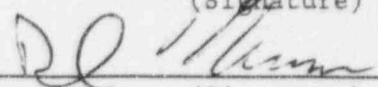
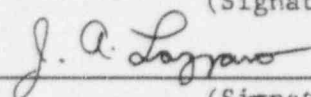
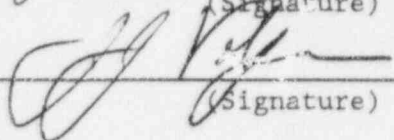
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<u>PROC ID</u>	<u>REV</u>	<u>FC</u>	<u>PROCEDURE TITLE</u>	<u>STATUS</u>	<u>ISSUE DATE</u>	<u>COGNIZANT MANAGER</u>
WVDP-218	7		PREFACE FOR PROCESS SAFETY REQUIREMENTS	ACTIVE	08/09/96	LAZZARO, J.A.
WVDP-218	7	1	PREFACE FOR PROCESS SAFETY REQUIREMENTS	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	KLANIAN, 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-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-REG 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-16 Rev. No. 4 FC/PC No. PC1
Cognizant Author R. F. Mignoli Date 12/17/96 Page 1 of 2

Approval Signatures:

<u>R. F. Mignoli</u>	<u></u>	<u>12/17/96</u>
Cognizant Author (Printed Name)	(Signature)	Date
<u>D. C. Meess</u>	<u></u>	<u>12-18-96</u>
Cognizant Manager (Printed Name)	(Signature)	Date
<u>J. A. Lazzaro</u>	<u></u>	<u>12/18/96</u>
(Printed Name)	(Signature)	Date
<u>J. J. Volpe (R&SC)</u>	<u></u>	<u>12/18/96</u>
(Printed Name)	(Signature)	Date
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(Printed Name)	(Signature)	Date
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(Printed Name)	(Signature)	Date
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(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

3. Training Required: ☐ No ☐ Yes

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

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.	A	03/03/95
1	Incorporate DOE-WV comments received from review of Rev. 0.	All	08/16/95
2	Expansion of Table 1, "Ammonia Monitoring System Locations"	6	10/06/95
3	Removed ANSI K61.1 requirements, replaced with NFPA requirements Added NFPA and PSR-8 references Added alarm setpoints and alarm locations Added tag numbers for 01-14 System NH3 sensors	3 5 6 6	06/13/96
	DOE approval on letter DW:96:0461, dated May 31, 1996		

WVNS RECORD OF REVISION CONTINUATION FORM

Rev. No.	Description of Changes	Revision On Page(s)	Dated
PC1	Table 1 - NH ₃ sensor #1, #3, #4, #5, #6 and #8 changed "A1" to "AI" due to typographical error. These changes are insignificant modifications per WV-365, Section 7.11; DOE approval is not required.	6	07/31/96
4	Added Applicability statements to Table 1 for clarification. Changed title of WVDP-082. Added SOP 00-04 to references. Changed drawing numbers in Table 1. These changes are insignificant modifications per WV-365, Section 7.11, DOE approval is not required.	6 3, 5 3, 5 6	10/30/96
PC1	Change ammonia monitor number from 64-AI-7215 to 64-AI-7215A. These changes are insignificant modifications per WV-365, Section 7.11, DOE approval is not required.	6	12/20/96

environment. The high-level switch which actuates the high-level alarm has a design set-point of 950 gallons.

ATTACHMENTS

Table 1 - Ammonia Monitoring System Locations

REFERENCES

29 CFR 910.111. Storage and Handling of Anhydrous Ammonia.

40 CFR 355, Appendix A. Emergency Planning and Notification.

WVDP-082. DOE Hoisting and Rigging Handbook.

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

PSR-8, Fire Protection Systems Requirements

SOP 00-04, Lock, Tag and Confirm Procedure

PC1>

TABLE 1
AMMONIA MONITORING SYSTEM LOCATIONS

Monitor	Elevation (ft)	Location	(Dwg. No.)
VF Ex-Cell Off-gas System, 01-14 Building ¹ (Applicable when Tank 64D-004 contains NH ₃)			
NH ₃ Sensor #1 (64-AI-7211)	144.0	Blower Room Extension	(906D-008)
NH ₃ Sensor #3 (64-AI-7213)	130.0	Third Floor (Near HEPA Room)	(906D-008)
NH ₃ Sensor #4 (64-AI-7214)	124	Instrument Room	(906D-008)
NH ₃ Sensor #5* (64-AI-7215A)	114.0	01 Cell	(906D-008)
NH ₃ Sensor #6* (64-AI-7216)	117.0	Ammonia Valve Gallery	(906D-008)
NH ₃ Sensor #8 (64-AI-7218)	100.5	01-14 Stairwell	(906D-008)
Vitrification Test Facility ² (Applicable when the Ammonia Storage Room (ASR) contains NH ₃)			
NH ₃ Continuous Air Monitor (61-AIT-096)	NA	Ammonia Storage Room	(900D-3096) Sheet 1of2
Site Area Sensors ³ (Applicable when either Tank 64D-004 or the ASR contains NH ₃)			
MSA Chillgard NH ₃ Sensor (64-AE/AI-8200)	NA	Trailer Z-04	(906B-305 Sheet 188)
MSA Chillgard NH ₃ Sensor (64-AE/AI-8201)	NA	Trailer F	(906B-305 Sheet 189)
MSA Chillgard NH ₃ Sensor (64-AE/AI-8202)	NA	Trailer B	(906B-305 Sheet 190)
MSA Chillgard NH ₃ Sensor (64-AE/AI-8203)	NA	Ammonia Storage Tank	(906B-305 Sheet 191)
MSA Chillgard NH ₃ Sensor (64-AE/AI-8204)	NA	Main Plant	(906B-305 Sheet 192)

- 1 35ppm alarm (local, at Vitrification Process Control Room (VPCR) 01-14 general alarm and at AMS)
- 2 25ppm, 100ppm, and 200ppm alarms (local and at AMS)
- 3 25ppm and 200ppm alarms (at AMS)
- * Local and VPCR alarms only