

Department of Energy

Idaho Operations Office West Valley Project Office P.O. Box 191 West Valley, NY 14171

March 29, 1994

Mr. Gary C. Comfort Headquarter U. S. Nuclear Regulatory Commission Washington, DC 20555

SUBJECT: Transmittal of Information for the Vitrification Facility NRC Readiness Notebook

Dear Mr. Comfort:

An aspect of the West Valley Demonstration Project (WVDP) Vitrification Operational Readiness activities is the development of the Vitrification Facility NRC Readiness Notebook (Notebook) for the Nuclear Regulatory Commission (NRC). The purpose of the Notebook is to ensure the NRC is provided with the necessary information to support their effort in assessing the operational readiness to commence radioactive vitrification operations at WVDP. The documentation provided as enclosures includes revised P&ID drawings, HLW Solidification Facility Description and Canister Welding System Description. Enclosure A provides instructions for incorporating the information into the Notebook. Enclosure B provides the revised schedule for anticipated release of information for the Notebook.

It is the goal of the West Valley Demonstration Project to ensure the NRC is provided with the necessary information in a timely manner to support their effort in assessing the operational readiness of radicactive vitrification operations at WVDP. If there are any questions regarding this matter, contact J. J. May at (716) 942-2161 or W. S. Ketola at (716) 942-4314.

Sincerely.

T. J. Rowland, Director

West Valley Project Office

Enclosures: A- Instructions for Updating the Contents of the Vitrification Facility NRC Readiness Notebook Volume I (3 copies)

B- Vitrification Facility NRC Readiness Notebook Schedule (3 copies)

C- P&ID Drawing List with Drawings (3 copies)

D- HLW Solidification Facility Description (3 copies)

E- Canister Welding System Description (3 copies)

NF13 1

cc: J. Furia, NRC Region I, w/enc. (1 copy)

T. W. McIntosh, EM-343, TREV II, w/enc. (1 copy)

W. S. Ketola, WVPO, w/o enc.

F. W. Damerow, WVNS, MS 51, w/o enc.

JJM:006:94 - 0024:94:10

JJM/jam

Instructions for Updating the Contents of the Vitrification Facility NRC Readiness Notebook Volume I

Attached you will find one drawing list, one drawing package, and two system descriptions. Please follow the instructions detailed below to update the Vitrification Facility NRC Readiness Notebook. Note that the vertical lines appearing to the left of the drawing number on the drawing list indicate the drawings to add or replace ir your NRC Readiness Notebook.

In Section 1.2: P&IDs, of your NRC Notebook, replace the list of P&ID drawings, dated 1/25/94, with the attached list of drawings titled, Section 1.2: P&IDs, dated 2/24/94.

The drawings in your #1 package will go into this section behind the drawing list. Drawing numbers, names, and number of sheets per drawing are identified in the title block which appears on the bottom right corner of each drawing. Carefully match the drawing numbers (paying particular attention to the number of sheets per drawing) to the drawings in your NRC Notebook and replace each drawing with its updated version. Some drawings in this package are in addition to those issued in your original notebook and should be added in the sequence indicated on the drawing list.

After you have completed adding and replacing drawings, you may wish to compare the drawing list included in the front of Section 1.2: P&IDs to the actual order of drawings in your NRC Notebook.

In Volume II of your notebook series, add the High-Level Waste Solidification Facilities Description, WVNS-FD-001, behind the Section 1.4.1 tab.

In Volume III of your notebook series, add the Canister Welding System Description, WVNS-SD-63L, behind the Section 1.4.8 tab.

The Table of Contents in the front of each volume may be used to verify the correct sequence of documents.

Vitrification Facility NRC Readiness Notebook

		DATE	PREVIOUS
ECTION	TITLE	ANTICIPATED	TRANSMITTALS
.0	Design Information		
1	Process Flow Diagrams		
	Cold Chemical System	07/16/93	7/16/93
	Vitrification	06/30/94	
2	Process & Instrumentation Diagrams	07/16/93	2/25/94
.3	General Arrangement Drawings		
.3.1	Vitrification Facility	07/16/93	1/5/94
.3.2	Tank Farm	07/16/93	1/5/94
.3.3	High Level Waste Interim Storage (CPC & EDA)	07/16/93	7/16/93
.3.4	Ex-Call Off-Gas Areas of the 01-14 Building	07/16/93	7/16/93
.4	System Descriptions		
.4.1	High-Level Waste Vitrification Facilities Description	01/16/94	2/25/94
.4.2	55 - Sludge Mobilization and Transfer	TBD	
.4.3	63G - Wasie Header	07/16/93	7/16/93
.4.4	63H - In-Cell Off-Gas and Vessel Vent	07/16/93	7/16/93
.4.5	631 - Vitrification Main Process	11/01/93	CE-Charles at the stronger on one
.4.6	63J - Canister Decontamination	01/16/94	8/30/93
.4.7	63K - In-Cell Remote Handling, Maintenance and Viewing	TBD	A CONTRACTOR OF THE PARTY OF TH
4.7	63L - Canister Weiding	06/15/94	2/25/94
	63M - Vitrification Load In & Load Out	TBD	
.4.9	63P - Vitrification Process Chemistry	TBD	
.4.10	63CW - Vitrification Cooling Tower Water	02/28/94	
.4.11	63DV - Vitrification Crain, Waste, Vent (Sanitary)	TBD	
1.4.12	63DW - Vitrification Demineralized Water	11/01/93	11/30/93
1.4.13	63ED - Vitrification Electric Power Distribution	04/30/94	
1.4.14	A TOTAL CONTROL OF THE PROPERTY OF THE PROPERT	09/30/94	
1.4.15	63FO - Fuel Oil 63FP - Fire Detection and Protection	11/01/93	
1.4.16		12/01/93	
1.4.17	63IA - Vitrification Instrument Air	11/01/93	
1.4.18	63PW - Vitrification Potable Water	01/31/94	
1.4.19	63SC - Vitrification Steam and Condensate	12/01/93	
1.4.20	63UA - Vitrification Utility Air	and an experience have been been been been been been been be	A Property of the Control of the Con
1.4.21	63UW - Vitrification Utility Water	11/01/93	
1.4.22	63VH - Vitrification Vent Header	TBD 01/31/94	
1.4.23	63WW - Vitrification Drains		
1.4.24	64 - Vitrification Ex-Cell Off-Gas	01/31/94	
1.4.25	65 - Vitrification Cold Chemical	11/01/93	A STATE OF THE PARTY OF THE PAR
1.4.26	66 - Vitrification Closed Loop Cooling Water	11/01/93	PARTIES AND ADDRESS OF A STREET AND ADDRESS OF A STREE
1.4.27	67 - Vitrification HVAC	TBD	
1.4.28	68 - High-Level Waste Interim Storage	TBU	
1.4.29	69A - Vitrification Sampling	TBC	
1.4.30	69B - Vitrification Sample Transfer	01/16/94	
1.4.31	90 - Analytical and Environmental Laboratory	TBC	
1.4.32	200A - Instrumentation Hardware	TBC	
1.4.33	200B - Instrumentation Software	TBC)
2.0	Operational Readiness Review (ORR)		
2.1	ORR Plan	07/30/93	7/30/93
2.2	ORR Tree		
3.0	Readiness Logic		
3.1	Integrated Logic Diagram	07/30/9	3 7/30/93
4.0	Testing		
4.1	Test Program Plan (WVNS-TPL-63-001)	07/30/9	ATT STREET, AND THE RESIDENCE AND ADDRESS OF THE PERSON OF
4.2	Overall Test Schedule	TBI	
4.3	Integrated Test Plan	TBI)
4.4	Performance Tests		
4.4.1	Specifications	Per Test Pla	n
4.4.2	Reports	Per Test Pla	n

Note: Shaded sections have been previously transmitted or are included with this transmission.

2/24/94

900-D-2318	Sht:001	Rev:009	Title: Waste Mobil. Pump PaID 8D-1-M6
900-D-2318	Sht:002	Rev: 007	Title: Waste Mobil Pump P&ID 8D-1-M4
900-D-2318	Sht:003	Rev: 006	Title: Waste Mobil Pump P&ID 8D-1-M3
900-D-2318	Sht:004	Rev:006	Title: Waste Mobil Pump P&ID 8D-1-M2
900-D-2318	Sht:005	Rev:006	Title: Waste Mobil Pump P&ID 8D-1-M1
900-D-2318	Sht:006	Rev: 006	Title: Waste Mobil Pump P&ID 8D-2-P
900-D-2318	Sht:007	Rev: 006	Title: Waste Mobil Pump P&ID 8D-2-M5
900-D-2318	Sht:008	Pev:007	Title: Waste Mobil Pump P&ID 8D-2-M3
90J-D-2318	Sht:009	Rev:006	Title: Waste Mobil Pump PAID 8D-2-M2
900-D-2318	Sht:010	Rev:008	Title: Waste Mobil Pump P&ID &D-Z-M1
906-D-2791	Sht:001	Rev: 002	Title: VF STACK SAMPLING SYSTEM P AND ID
900-D-2803	Sht:001	Rev:000	Title: Cold Chemical building H&V air flow diagram and P&ID
900-D-4072	Shr : 001	Rev:000	Title: + 2 INTERIM CHEM. & SLUDGE WASH WATER ADD. SYS P&ID
900-D-4525	Sht:001	Rev. 113	Title: WTF INTERIM CHEM & SLUDGE WASH WATER ADDITION SYS PAID
900-E-705	Sht:D1A	Rev:006	Title: CTS ARB & LEGEND PROCESS & INSTRUM DIA
	Sht:018	Rev:000	Title: JET CONTROL
900-E-705	Shr. 10	Rev: 000	Title: JET CONTROL

	the second second	
Sht:01D	Rev:000	Title: MFHT BUBBLER CONTROL
Sht:018	Rev:000	Title: CFMT BUBBLER CONTROL
Sht:01F	Rev:000	Title: INDEX VIT & 01/16
Sht:002	Rev: 018	Title: CTS concentrator feed makup tk. 63 v001 P&ID
Sht:003	Rev: 015	Title: CTS melter feed hold tk 63 v011 PAID
Sht : 054	Rev:014	Title: CTS waste header V-945 vit. cell P4ID
Sht:005	Rev:009	Title: CTS - ADS sample pump & P&ID
Sht : 006	Rev:010	Title: CTS fht ads pump 63g011 P&ID
Sht: 007	Rev:011	Title: CTS INTERNAL MELTER THERMOCOUPLES
Sht :008	Rev: 013	Title: CTS MELTER COOLING SYSTEM
Sht:009	Rev: 018	Title: CTS MELTER PNEUMATIC INSTRUMENTATION
Sht : 010	Rev:013	Title: CTS MELTER AND HEATER POWER SUPPLY AND CONTROLS
Sht : 011	Rev: 213	Title: SAMPLER FOR VOOL & VOLL PROCESS & INSTR. DIA.
Sht 1012	Rev: 014	Title: CTS TURNTABLE
Sht:014	Rev:016	Title: CTS PRIMARY SCRUBBER SCRUB SECTION
Sht:015	Rev:014	Title: CTS PRIMARY SCRUBBER RECEIVER TANK
Sht:016	Rev: 004	Title, CTS GLASS LEVEL DETECTOR SYSTEM
	Sht:01E Sht:01E Sht:01F Sht:002 Sht:003 Sht:004 Sht:005 Sht:005 Sht:005 Sht:007 Sht:007 Sht:007 Sht:007	Sht:01E Rev:000 Sht:01F Rev:000 Sht:002 Rev:018 Sht:003 Rev:016 Sht:005 Rev:009 Sht:006 Rev:010 Sht:006 Rev:010 Sht:007 Rev:011 Sht:008 Rev:013 Sht:010 Rev:013 Sht:011 Rev:013 Sht:012 Rev:014 Sht:012 Rev:014

900-8-705	Sht:019	Rev:013	Title: CTS VESSEL VENT SYSTEM
900-2-705	Sht:021	Rev:012	Title: CTS melt off gas sys preheater > hemes P&ID
900-E-705	Sht:022	Rev:017	Title: CTS vessel off gas filters & heaters P&ID
900-6-705	Sht:023	Rev:011	Title: canister decontamination Tank 63-V-044 P&ID
900-E-705	Sht:024	Rev: 007	Title: CTS-MAINTENANCE & CAPPING STATION PAID
900-E-705	Sht:025	Rev:004	Title: Ex-Cell Vent Header P&ID
903-D-013	Sht = 001	Rev: 006	Title: PAID STS UTILITY WATER SYSTEM
903-D-014	Sht:001	Rev:016	Title: P&ID STS UTILITY & INSTRUMENT AIR
903-D-014	Sht:002	Rev:011	Title: STS P&ID (V&S Bldg) UTILITY & INST. AIR
903-D-016	Sht:001	Rev: 015	Title: STS P&ID FILTRATION & COOLING SECTION
903-D-017	Sht :001	Rev:011	Title: STS P&ID ION EXCHANGE SECTION SHEET 1
903-0-018	Sht:001	Rev: 011	Title: STS P&ID ION EXCHANGE SECTION SHEET 2
903-D-019	Sht:001	Rev: 013	Title: STS P&ID FINAL FILTRATION & STORAGE
903-D-020	Sht : 001	Rev:011	Title: STS P&ID ZEOLITE FILL & SLUICE SECTION
903-D-021	Sht:001	Rev:009	Title: STS PAID VENTING/CHILLER SECTION
904-D-011	Sht:001	Rev:008	Title: P&ID sludge mobilization sys. 8Q-4Pit
904-D-012	Sht -001	Rev: 008	Title: P&ID Sludge mobilization system 8Q-1 pit

Rev-005 Title: PAID COLD CHEMICAL FIRE PROTECTION

Sht 001 Rev 004 Title: P&ID secondary filter, diesel gen & crane maintenance room

905-D-024

2/24/94

A RESIDENCE OF THE PARTY OF THE				
905-D-026	Sht:001	Rev: 003	Title: I	P&ID Vitrification facility utility water system
905-D-027	Sht:001	Rev:004	Title: I	P&ID vitrification facility non rack cold chemical decon system
905-D-028	Sht:001	Rev:004	Title: 1	P&ID vitrification facility steam system
905-D-029	Sht: 901	Rev:013	Title:	P&ID vitrification facility instrument & utility air sys
908-D-044	Sht:001	Rev:002	Title:	VF SFR & CMR HIGH PRESSURE AIR SYSTEM P&ID
905-D-045	Sht:001	Rev: 004	Title:	P&ID Vitrification facility instrument rack 3W2-1A
905-D-045	Sht:002	Rev: 005	Title:	PAID Vitrification facility instrument rack 3E8-7A
905-D-045	Sht:003	Rev: 005	Title:	PWID Vitrification facility instrument rack 2N7-6
905-D-045	Shc:004	Rev:004	Title:	P&ID Vitrification facility Instrument rack 2N6-5
905-D-045	Sht:005	Rev:004	Title:	PAID Vitrification facility
905-D-045	Sht : 006	Rev: 004	Title:	PAID Vitrification facility instrument rack 2E9-8
905-D-045	Sht:007	Rev:002	Title:	PAID Vitrification Facility instrument rack 2W3-2
905-D-045	Sht :008	Rev:003	Title	PAID Vitrification facility instrument rack 3E9-7B
905-D-045	Sht:009	Rev:005	Title:	PAID Vitrification facility instrument rack 3W7
905-D-045	Sht:010	Rev:006	Title	PAID Vitrification facility instrument rack 2N8
905-D-045	Sht:011	Rev: 007	Title	P&ID Vitrification facility instrument rack 3W4
905-D-045	Sht:012	Rev:006	Title:	PaID Vitrification facility instrument rack 3WS sheet 1

905-D-045	Sht:013	Rev:006	Title	P&ID	Vitrification	facility	instrument	rack	3W6
905-D-045	Sht:014	Rev:003	Title	PAID	Vitrification	facility	instrument	rack	3W3
905-D-045	Sht:015	Rev: 002	Title	PAID	Vitrification	facility	instrument	rack	381
905-D-045	Sht:016	Rev:005	Title:	PRID	Vitrification	facility	instrument	rack	2W4
905-D-045	Sht:017	Rev:003	Title:	PaID	Vitrification	facility	instrument	rack	2W5
905-D-045	5ht:018	Rev: 004	Title:	PAID	Vitrification	facility	Instrument	rack	3E10
905-D-045	Shc: 019	Rev:001	Title:	Paid	Vitrification	facility	instrument	rack	2E10
905-P-045	Sht:020	Rev:004	Title:	PAID	Vitrification	facility	instrument	rack	3W5 Sheet 2
905-D-046	Sht:001	Rev:021	Title:	PGID	vitrification	facility	utility si	r sys	tem
905-D-046	Sht:002	Rev:010	Title:	PAID	vitrification	facility	instrument	air	system
905-D-046	Sht : 003	Rev:011	Title:	PAID	vitrification	facility	instrument	air	system
905-D-046	Sht:004	Rev:001	Title:	VF P	&ID UTILITY AI	R SYSTEM			
905-D-047	Sht:001	Rev: 012	Title:	Pa .	vitirificatio	n facilit	y steam sys	tem	
905-0-047	Sht : 002	Rev: 013	Title	PAID	vitrification	facility	condensate	syst	een.
905-D-047	Sht :003	Rev: 011	Title:	PAIR	vitrification	facility	steam syst	em	
905-D-048	Sht : 003	Rev:008	Title	PAIL	vitrification	facility	otility we	iter s	ystem
905-D-048	Sht : 002	Rev:011	Tiple:	PAIL	vitrification	: facility	deminerali	zed v	vater system