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**Department of Energy**

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

January 13, 1994

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

SUBJECT: Transmittal of Updated Information for the West Valley Demonstration Project  
Vitrification Facility NRC Readiness Notebook

- REFERENCES: 1) Letter JJM:033:93 (1671:93:10), T. J. Rowland to Gary C. Comfort,  
"Transmittal of the West Valley Demonstration Project (WVDP)  
Vitrification Facility Nuclear Regulatory Commission (NRC) Readiness  
Notebook, Volumes III - VI," dated September 20, 1993
- 2) Letter JJM:022:93 (1671:93:10), T. J. Rowland to Gary C. Comfort,  
"Transmittal of the West Valley Demonstration Project (WVDP)  
Vitrification Facility Nuclear Regulatory Commission (NRC) Readiness  
Notebook, Volumes I - II," dated August 12, 1993

Dear Mr. Comfort:

The West Valley Demonstration Project (WVDP) Vitrification operational readiness activities include 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 of radioactive vitrification operations at WVDP. References 1 and 2 delineate the overall strategy of the Notebook. Also, as discussed in the references, updates to the Notebook will be provided to the NRC periodically by the West Valley Project Office (WVPO). Enclosure A provides the revised schedule for anticipated release dates of updated information for the Notebook.

The WVPO is providing as an enclosure to this letter, updated documentation to be incorporated into the Notebook. In an effort to conserve time and resources, only the updated drawings in Volume I are being provided instead of replacing the entire two hundred drawings originally issued. Enclosure B provides instructions for updating the Notebook.

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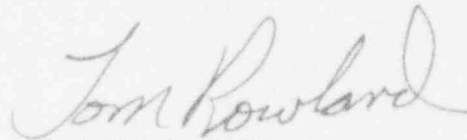
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Ltr. Encl.

It is the WVPO goal to ensure the NRC is provided with the necessary information in a timely manner to support their effort in assessing the operational readiness of radioactive 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. Vitrification Facility NRC Readiness Notebook Schedule (3 copies)
  - B. Instructions for Updating the Contents of the Vitrification Facility NRC Readiness Notebook Volumes I, III (3 copies)
  - C. Revised Drawing List (3 copies)
  - D. Revised Drawings (3 copies)
  - E. System Description WVNS-SD-002, Rev. 0 (3 copies)

- cc: J. Furia, NRC Region I, w/enc. (3 copies)  
T. W. McIntosh, EM-343, TREV II, w/enc. (1 copy)  
W. S. Ketola, WVPO, w/o enc.  
J. A. Yeazel, WVPO, w/o enc.  
F. W. Damerow, WVNS, MS 51, w/o enc.

JJM:049.93 - 1671:93.10

JJM/smn

## Vitrification Facility NRC Readiness Notebook

SECTION	TITLE	DATE ANTICIPATED	PREVIOUS TRANSMITTALS
1.0	Design Information		
1.1	Process Flow Diagrams		
	Cold Chemical System	07/16/93	7/16/93
	Vitrification	06/30/94	
1.2	Process & Instrumentation Diagrams	07/16/93	10/27/93
1.3	General Arrangement Drawings		
1.3.1	Vitrification Facility	07/16/93	7/16/93
1.3.2	Tank Farm	07/16/93	7/16/93
1.3.3	High Level Waste Interim Storage (CPC & EDR)	07/16/93	7/16/93
1.3.4	Ex-Cell Off-Gas Areas of the 01-14 Building	07/16/93	7/16/93
1.4	System Descriptions		
1.4.1	High-Level Waste Vitrification Facilities Description	01/16/94	
1.4.2	55 - Sludge Mobilization and Transfer	TBD	
1.4.3	63G - Waste Header	07/16/93	7/16/93
1.4.4	63H - In-Cell Off-Gas and Vessel Vent	07/16/93	7/16/93
1.4.5	63I - Vitrification Main Process	11/01/93	
1.4.6	63J - Canister Decontamination	01/16/94	8/30/93
1.4.7	63K - In-Cell Remote Handling, Maintenance and Viewing	TBD	
1.4.8	63L - Canister Welding	06/15/94	
1.4.9	63M - Vitrification Load In & Load Out	TBD	
1.4.10	63P - Vitrification Process Chemistry	TBD	
1.4.11	63CW - Vitrification Cooling Tower Water	02/28/94	
1.4.12	63DV - Vitrification Drain, Waste, Vent (Sanitary)	TBD	
1.4.13	63DW - Vitrification Demineralized Water	11/01/93	
1.4.14	63ED - Vitrification Electric Power Distribution	04/30/94	
1.4.15	63FO - Fuel Oil	09/30/94	
1.4.16	63FP - Fire Detection and Protection	11/01/93	
1.4.17	63IA - Vitrification Instrument Air	12/01/93	
1.4.18	63PW - Vitrification Potable Water	11/01/93	
1.4.19	63SC - Vitrification Steam and Condensate	01/31/94	
1.4.20	63UA - Vitrification Utility Air	12/01/93	
1.4.21	63UW - Vitrification Utility Water	11/01/93	8/30/93
1.4.22	63VH - Vitrification Vent Header	TBD	
1.4.23	63WW - Vitrification Drains	01/31/94	
1.4.24	64 - Vitrification Ex-Cell Off-Gas	01/31/94	
1.4.25	65 - Vitrification Cold Chemical	11/01/93	
1.4.26	66 - Vitrification Closed Loop Cooling Water	11/01/93	8/30/93
1.4.27	67 - Vitrification HVAC	TBD	
1.4.28	68 - High-Level Waste Interim Storage	TBD	
1.4.29	69A - Vitrification Sampling	TBD	
1.4.30	69B - Vitrification Sample Transfer	01/16/94	
1.4.31	90 - Analytical and Environmental Laboratory	TBD	
1.4.32	200A - Instrumentation Hardware	TBD	
1.4.33	200B - Instrumentation Software	TBD	
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	07/30/93	7/30/93
4.0	Testing		
4.1	Test Program Plan (WVNS-TPL-63-001)	07/30/93	7/30/93
4.2	Overall Test Schedule	TBD	
4.3	Integrated Test Plan	TBD	
4.4	Performance Tests		
4.4.1	Specifications	Per Test Plan	
4.4.2	Reports	Per Test Plan	

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

**Instructions for Updating the Contents of the  
Vitrification Facility NRC Readiness Notebook Volumes I, III**

Attached you will find one system description, one drawing list and one drawing package. 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 in your NRC Readiness Notebook.

In Section 1.2: P&IDs, of your NRC Notebook, replace the list of P&ID drawings, dated 10/22/93, with the attached list of drawings titled, Section 1.2.: P&IDs, dated 11/22/93.

The drawings in your 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.

The System Description, VF Demineralized Water System (63DW), should be added behind the tab of Section 1.4.13 tab in Volume III of your NRC Notebook.

## Attachment B

Remove:		Replace with:	
Dwg.	Sht.	Dwg.	Sht.
900E-7005	23 - 25	900E-705	1A, 1B, 1C, 1D, 1E, 1F, 01 - 12, 14 - 16, 19, 21 - 25
905D-015	01	905D-015	01
905D-016	01	905D-016	01
905D-017	01	905D-017	01
905D-018	01	905D-018	01
905D-019	01	905D-019	01
905D-020	01	905D-020	01
905D-021	01	905D-021	01
905D-022	01	905D-022	01
905D-045	S02	905D-045	S02
905D-045	S05	905D-045	S05
905D-045	S09	905D-045	S09
905D-045	S13	905D-045	S13
905-D-046	S01, S02	905-D-046	S01, S02
905D-046	S04	905D-046	S04
905-D-052	S02	905-D-052	S02
905D-058	1 of 2	905D-058	1 of 2