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CENTER FOR NUCLEAR WASTE REGULATORY ANALYSES

TRIP REPORT

SUBJECT: Meeting with NRC and DOE on West Valley Demonstration Project
Status and SRA
(20-3706-001)

DATE/PLACE: West Valley Demonstration Project
West Valley, New York
June 6, 1991

AUTHOR(S): Hengameh Karimi

DISTRIBUTION:

CNWRA:

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CNWRA Directors
CNWRA Element Managers
H. Karimi

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J. Funches
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S. Rowe
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SUBJECT: Meeting with NRC and DOE on West Valley Demonstration Project
Status and SRA
(20-3706-001)

DATE/PLACE: West Valley Demonstration Project
West Valley, New York
June 6, 1991

PERSONS PRESENT: Hengameh Karimi
Also please see attached list of persons from NRC, DOE,
NYSERDA, WHC-PTSO, BDM, AND WVNS

BACKGROUND AND PURPOSE OF TRIP:

The Division of Industrial and Medical Nuclear Safety (IMNS) has established a Program Element at the CNWRA to provide technical assistance support for the evaluation of safety of the Waste Solidification Systems at the West Valley Demonstration Project (WVDP) under Mr. Davis Hurt. Three tasks have been assigned to the CNWRA for performance in Fiscal Years 1991 and 1992. The purpose of the trip was to review the status of activities at WVDP and to understand the proposed change plans for waste solidifications systems that are being installed at the site. CNWRA, NRC, and DOE staff members were given an overview of the project status and proposed plans. The presentation and meeting agenda is attached.

SUMMARY OF PERTINENT POINTS:

The meeting began with a briefing of:

- 1 - Status of resumption waste tank operations schedule
- 2 - Status of evaporator cleaning
- 3 - Status of TRG SAR review
- 4 - Status of Waste Solidification (cement) Program

The above presentations were made by the staff of the West Valley Nuclear Services Company, Inc. (WVNS) which is the operational contractor at the site.

These status reports reflected the change in operation in order to remove P₄ from West Valley high-level liquid waste. This presentation was followed by a table top discussion on the content of the SAR. Sample stations were determined and the frequency of samples taken at different locations were addressed. Some examples of selected accident scenarios were discussed. Another topic covered in the course of discussion was the present operational changes and its impact.

The second half of the day was used for vitrification off-gases. Dr. D. E. Carl (WVNS) provided detailed information of the chemistry of the process, and Mr. R. F. Vance (WVNS) gave a presentation on equipment layouts and related P&IDs.

IMPRESSIONS/CONCLUSIONS:

Overall, the meeting was very useful both in presenting the current status of the project and introducing the cognizant off-gases contacts at the site. The WVNS provided me with all the requested materials--even an early draft of SAR for our review and SER development. This draft shows all the changes made to the earlier review, and very little future changes are anticipated. The main concern, presently, are the problems with column D and the fact that the operation requires a shutdown every week. Most of the equipment for high-level waste vitrification process has arrived at the site, and the assembly is scheduled for August 1991. Also, a system description on vitrification off-gases will be published in July 1991.

SIGNATURES



Hengameh Karimi

CONCURRENCE:



Prasad K. Nair
Element Manager

6/21/91

Date

Attendance list 6/6/91

Name	Affiliation	Telephone
Al Steinberg	VSI for EM-23(DOE)	(PT) 233-6090
SOB LAWRENCE	WVNS - VIT. PROJ MGR	942-4390
Joe Johnson	WVNS - SPEA	4064
Sid Harrison	NYSERDA	842-4373
Richard B. Provender	DOE-WVPO	FTS-473-4101
Gay C. Comfort, J.	NRC/INNS	FTS-492-0667
Mary T. Adams	NRC/INNS	FTS 992-0505
Imai Ryo	WVNS - SPEA	942-4370
Mark J. Eisen	DOE-ID	FTS 583-5277
ALAN YEAGER	DOE-WVPO	FTS 473-4780
W. STEPHEN KETOLA	DOE-WVPO	FTS 473-4314
HENGAMEH KARIMI	CHWRA - SRI	(512) 522-5253
Ted McIntosh	DOE-HQ-EM343	FTS 233-7189
DAVE FAUTH	WVNS - LABORATORIES MGR.	FTS 473-4536
John Matholey	WVNS - IETS Engineering	FTS 473-4183
JEFF Yocum	BDM	(301) 601 1293
Lyle Roberts	WVNS - SPEA (O&M)	FTS 473-4271
Chris Eckert	DOE - WVPO	FTS 473-4783
Laurent Pansier	WNC - PT30 (SAR-TRF)	FTS 444-8123
Jan Carl	WVNS - VIT. TAG	FTS 444-4373
Rich Vance	WVNS - VIT. SYSTEMS ENGINEERING	FTS 444-4348
	1716 242 - FTS	

AGENDA FOR JUNE 6, 1991
NRC REVIEW MEETING IN DOE CONFERENCE ROOM

0800	Arrive on site	
0815 - 0845	Status of Resumption Waste Tank Operations schedule	P. S. Klanian
0845 - 0915	Status of Evaporator Cleaning	J. C. Cwynar
0915 - 0930	Status of TRG SAR Review	V. Panesko
0930 - 1030	Waste Solidification (Cement) Program Status. After initial discussion on 129 " vs 32" heel impacts, a separate meeting on LWTS / STS SARs (see attached agenda) will be held.	J. L. Mahoney
1030 - 1045	Break	
1045 - 1200	Table Top Discussion	P. S. Klanian J. C. Cwynar J. L. Mahoney D. J. Fauth
	<ul style="list-style-type: none">• Review WVNS response to April 22, 1991 NRC questions• Discuss need for new Topical Report• Provide additional documents for the Cement Qualification notebook.• Discuss status and plans for PCP• General question / answer period	
1200 - 1300	Lunch - Cafeteria	
1300 - 1500	Vitrification Off Gas	D. E. Carl R. F. Vance
1500 - 1615	Close out	

AGENDA FOR JUNE 6, 1991

NRC CONSULTANT'S REVIEW OF LWTS & STS SARs

0915 - 1200 The purpose of this review is to familiarize the NRC consultants with the content of these SARs. This is being done in advance of the final version of these documents being issued to the NRC for their review and SER development.

WVNS attendees :

R. J. Johnson
J. J. Prowse
C. J. Roberts

Location : J. J. Buggy Conference Room

WASTE TANK FARM PROCESSING



WASTE TANK FARM PROCESSING

OPEN PLAN (tm)

Report: NOFLOWAY
Project: HLWSTARY
Time Now: 25MAY91
Date: 06JUN91
Time: 07:39:23
Page: 3

ACT	NUM	ESDATE	EDATE	DUR	STATUS
ACOUSTIC ADDITION SYSTEM					
CH000001	25MAY91	12SEP91		107	Future
CH000020	19APR91	20JUN91		30	Started
CH000050	21JUN91	16AUG91		40	Future
CH000060	13SEP91	12SEP91		0	Future
CRITICALITY MONITOR DESIGN					
CR100001	25MAY91	11NOV91		167	Future
CR100020	18MAY91	19APR91		15	COMPLETE
CR100040	14JUN91	05JUL91		15	Future
CR100130	26SEP91	09OCT91		10	Future
CR100150	02NOV91	11NOV91		10	Future
EVAPORATOR RECOVERY					
EV000001	25MAY91	22JUL91		55	Future
EV000020	18FEB91	01MAY91		10	COMPLETE
EV000080	11MAY91	27MAY91		10	COMPLETE
EV000282	27MAY91	07MAY91		20	COMPLETE
EV000255	24JUN91	28JUN91		5	Future
CEMENT / WASTE QUALIFICATION					
WM000001	25MAY91	02OCT91		127	Future
WM000006	22APR91	02MAY91		3	COMPLETE
WM000032	01MAY91	02MAY91		2	COMPLETE
WM000410	06MAY91	22MAY91		5	COMPLETE
WM000212	18JUL91	18JUL91		1	Future
WM000145	19JUL91	25JUL91		5	Future
WM000100	29JUL91	09AUG91		10	Future
WM000400	21AUG91	13NOV91		60	Future

Legend:

- ACTIVITY: Solid rectangle
- CRITICALITY MONITOR: Wavy line
- EVAPORATOR RECOVERY: Dashed line
- CEMENT / WASTE QUALIFICATION: Dotted line
- DEPENDENCY: Solid line
- CRITICALITY MONITOR: Wavy line
- EVAPORATOR RECOVERY: Dashed line
- CEMENT / WASTE QUALIFICATION: Dotted line

Legend
 ■ = in progress
 ▨ = planned
 ▩ = Critical

All characters represent 7 time units (1


Significance




ACT	NUM	ESTATE	EFDATE	DBF	STATUS
-----	-----	--------	--------	-----	--------

West Valley
New Leaf
Services

00000001	29MAY91	07OCT91	132	CRITICAL	🔒
00000020	17APR91	31MAY91	10	CRITICAL	🔒
00000040	17JUNE91	12AUG91	40	CRITICAL	🔒
00000200	28AUG91	04SEP91	5	CRITICAL	🔒
00000210	05SEP91	18SEP91	10	CRITICAL	🔒
00000300	24SEP91	07OCT91	10	CRITICAL	🔒

PMP00001	2MAY91	05SEP91	70	Future
PMP00700	27MAR91	27MAR91	20	COMPLETE
PMP00180	01APR91	04APR91	4	COMPLETE
PMP00290	05APR91	16MAY91	15	COMPLETE
PMP00204	12APR91	15APR91	4	COMPLETE
PMP00195	05JUN91	08JUN91	4	Future
PMP00210	01JUL91	15JUL91	10	Future
PMP00256	09JUL91	22JUL91	10	Future
PMP00405	16JUL91	17JUL91	2	Future
PMP00412	18JUL91	19JUL91	2	Future
PMP00422	22JUL91	23JUL91	2	Future
PMP00442	02AUG91	05AUG91	2	Future
PMP00432	05AUG91	05AUG91	2	Future
PMP00452	16AUG91	20AUG91	3	Future
PMP00460	03SEP91	30AUG91	0	Future
PMP00720	05SEP91	05SEP91	1	Future

SIS00001	29MAY91	07OCT91	132	CRITICAL	
INT00142	20AUG91	22AUG91	3	Future	
INT00144	23AUG91	04OCT91	30	Future	

 = In progress
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 = Critical

All characters represent 7 time unit (s)

Signatures

Prep. 5. 4. 2004.

Approved for Release by NSA on 08-25-2013 pursuant to E.O. 13526

OPEN PLAN (tm)

Report NOFLDAY
Project HLWSTART
Time Now 29MAY91
Date 06JUN91
Time 07 38 23
Page 3

ACT NUM ESDATE EFDATE DNR STATUS

WASTE TANK FARM PROCESSING



West Valley
Nuclear
Services

STS SAR UPDATES AND APPROVALS

STS	NUM	ESDATE	EFDATE	DNR	STATUS
STS00015	27MAR91	23APR91	15	1	COMPLETE
STS00030	03MAY91	10MAY91	10	1	COMPLETE
STS00040	06JUN91	07JUN91	2		Future
STS00045	06JUN91	12JUN91	5		CRITICAL
STS00060	05JUN91	18JUN91	10		CRITICAL
STS00140	23JUN91	26JUN91	4		CRITICAL
STS00160	10SEP91	07OCT91	20		CRITICAL

IRTS STARTUP

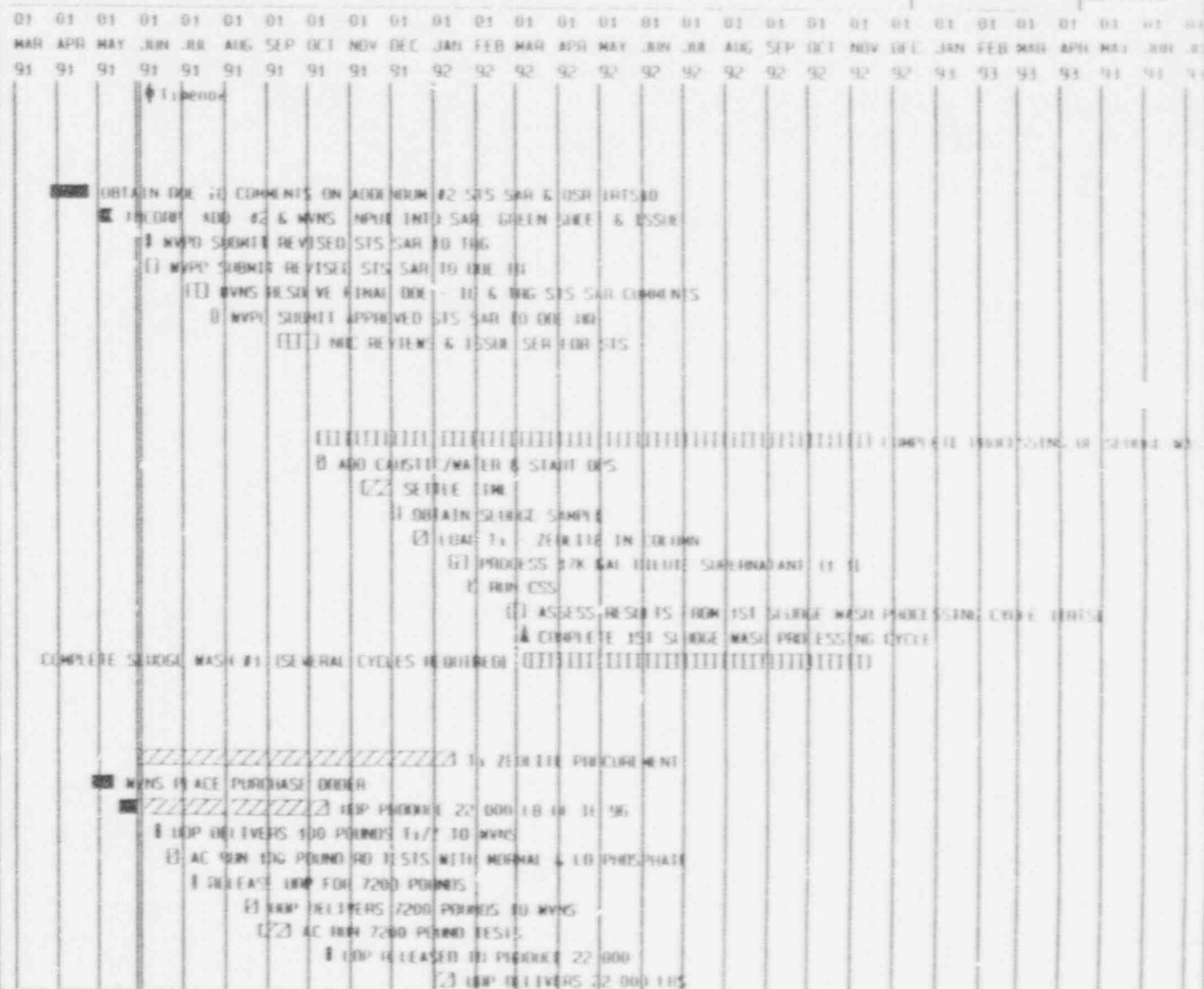
SUP	NUM	ESDATE	EFDATE	DNR	STATUS
SUP00001	08OCT91	13NOV92	403		CRITICAL
SUP00110	08OCT91	12OCT91	5		Future
SUP00220	10NOV91	30NOV91	21		Future
SUP00250	02DEC91	06DEC91	5		CRITICAL
SUP00100	18DEC91	26DEC91	5		Future
SUP00270	13JAN92	24JAN92	10		CRITICAL
SUP00300	27JAN92	31JAN92	5		Future
SUP00400	24FEB92	06MAR92	10		CRITICAL
SUP00500	07MAR92	06MAR92	0		CRITICAL
SUP00605	07MAR92	13NOV92	252		CRITICAL

TITANIUM ZEDLITE

TIT	NUM	ESDATE	EFDATE	DNR	STATUS
TIT00001	29MAY91	15JAN92	232		Future
TIT00150	26APR91	10MAY91	1	1	COMPLETE
TIT00115	16MAY91	14OCT91	100		Started
TIT00180	12JUN91	13JUN91	2		Future
TIT00210	20JUN91	26JUN91	7		Future
TIT00220	09JUN91	09JUN91	1		Future
TIT00240	16AUG91	23AUG91	6		Future
TIT00270	26AUG91	16SEP91	15		Future
TIT00266	15OCT91	16OCT91	2		Future
TIT00312	02JAN92	15JAN92	10		Future

Legend

■ = In progress
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□ = Critical



All characters represent 7 time unit (s)

Signatures

FRED S. K. Andrus

APRIL P. S. Kabanian