



U.S. Department of Energy

Office of River Protection

0056572

P.O. Box 450
Richland, Washington 99352

02-EMD-020

MAR 06 2002

Mr. Michael A. Wilson, Program Manager
Nuclear Waste Program
State of Washington
Department of Ecology
1315 W. Fourth Avenue
Kennewick, Washington 99336

RECEIVED
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EDMC

Dear Mr. Wilson:

STABILIZATION AND ISOLATION OF CATCH TANK 241-AX-152

The Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) Milestone M-48-07, "Submit to Ecology a Disposition Plan for all DST Components Not in Use Post 2005," requires that stabilization, isolation, and monitoring of Double-Shell Tank (DST) System components occur within twelve months of removal from service and that the final disposition of the component be provided to the State of Washington Department of Ecology (Ecology). The Tri-Party Agreement Milestone M-48-07 was developed from Administrative Orders 00NWPKW-1251 and 00NWPKW-1252 corrective actions. Per Corrective Action 1.A of the administrative orders, the U.S. Department of Energy, Office of River Protection and CH2M HILL Hanford Group, Inc. were required to submit a description of the DST System. Catch Tank 241-AX-152 was included in the DST description as a DST component as it supported a transfer route for DST-derived condensate from Catch Tank 241-A-417 to the 241-AZ tank farm. The preceding terms are defined, per the milestone, as:

- **Stabilization:** liquids and waste removed within twelve months, or sooner, from the date of removal from service.
- **Isolation:** administrative and/or engineering controls in place to prevent use within twelve months, or sooner, from the date of removal from service.
- **Monitoring:** equipment and frequency to be employed to ensure each component remains free of liquids and waste upon removal from service, to be in place within twelve months, or sooner, from the date of removal from service.
- **Final Disposition:** final disposition means that the component will be included within a Resource Conservation and Recovery Act (RCRA) Closure Plan.

Catch Tank 241-AX-152 was suspected of being a "leaker" on February 28, 2001. The tank was stabilized by the removal of all liquid on March 1, 2001. Subsequently, it was declared to be a "leaker" on March 23, 2001, and the tank was removed from service on that date.

The catch tank was stabilized in March 2001 by the removal of all liquid. Consistent with the requirements of the Milestone M-48-07, Catch Tank 241-AX-152 has been isolated using both administrative and engineering controls. Isolation controls now in place are as follows:

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- An administrative lock was established on January 18, 2001, on the water supply to the Catch Tank 241-AX-152 water jet, which isolates the water supply.
- The Catch Tank 241-A-417 to Catch Tank 241-AX-152 transfer line isolation valve was closed in March 1998.
- Transfer procedures affecting Catch Tank 241-AX-152 that establish transfer routes utilizing Diversion Box AX-152 and Catch Tank 241-AX-152 (TO-200-464, TO-200-465, and TO-260-505) were canceled on April 23, 2001.
- The floor drain in the 702A Building was plugged and grouted on November 29, 2001, because the floor drain was a direct path to the catch tank.
- An assessment of level history from March 1998 to December 2001 was performed. The assessment indicated that the catch tank was not subject to intrusion. A plot of the liquid level in Catch Tank 241-AX-152 is provided as Enclosure 1. The tabulation of daily levels is provided as Enclosure 2.

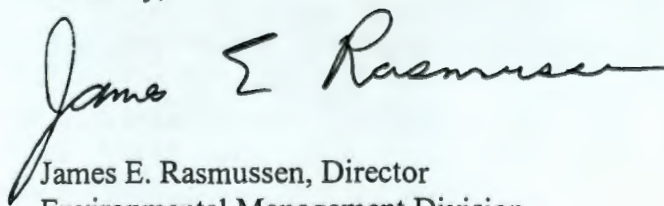
Catch Tank 241-AX-152 is currently monitored twice daily for intrusion using a manual tape. The monitoring frequency is being changed to once per day since the tank level history indicates that there are no active intrusion routes to the tank. The tank level has been at zero inches since the tank was pumped in March 2001. Prior to adding liquid to the tank in August 2000 for the leak test, the Catch Tank 241-AX-152 level had been at zero inches since January 1, 1999.

The catch tank has been included in the Single-Shell Tank System Closure Work Plan that, per Tri-Party Agreement Milestone M-45-06-T05, will be delivered to Ecology by June 30, 2002. Catch Tank 241-AX-152 has been declared inactive and listed as such in the monthly Waste Tank Summary Report, HNF-EP-0182.

Consistent with Milestone M-48-07, actions required to stabilize and isolate Catch Tank 241-AX-152 have been completed, the tank has been removed from service, and declared inactive. Daily monitoring of Catch Tank 241-AX-152 will continue.

If you have any questions, please contact me, or your staff may contact Mike Royack, (509) 376-4420.

Sincerely,


James E. Rasmussen, Director
Environmental Management Division

EMD:WR

Enclosures (2)

cc: See page 3

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Mr. Michael A. Wilson
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-3-

cc w/o encl:

W. T. Dixon, CHG

J. Richards, CTUIR

M. Brown, Ecology (w/encl)

J. Lyon, Ecology

D. B. Bartus, EPA c/o Ecology (w/encl)

J. S. Hertz, FHI

O. S. Kramer, FHI

T. Martin, HAB

P. Sobotta, NPT

M. L. Blazek, Oregon Energy

E. Mattlin, RL

R. Jim, YN

TPA Administrative Record (w/encl)

02-EMD-020
ENCLOSURE 1

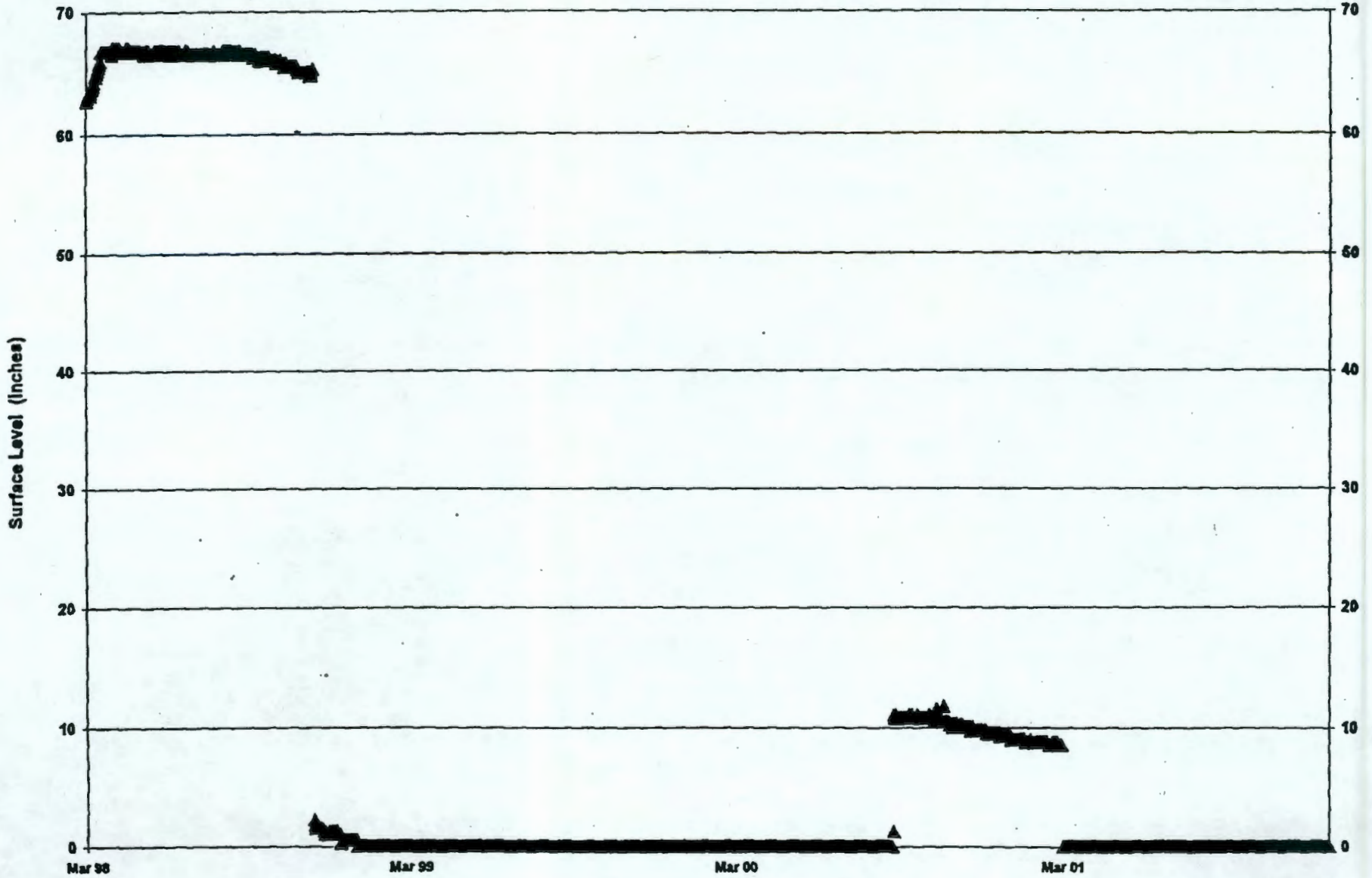
241-AX-152 LIQUID LEVEL

Retrieval Date: 12/27/01
Start Date: 3/1/98
End Date: 12/27/01

Tank AX152

Data Types:
GOOD
SUSPECT
TRANSCRIBED

EMD:WR
FEBRUARY 2002



▲ Manual Tape

02-EMD-020
ENCLOSURE 2

241-AX-152 DAILY LEVELS

Tank Name	AX152
Retrieval Date	12/27/01
Starting Date	3/1/98
Ending Date	12/27/01
Good	X
Suspect	X
Transcribed	X

DATE	Manual Tape	QI
3/1/98	62.25 G	
3/2/98	62.75 G	
3/3/98	62.75 G	
3/4/98	63 G	
3/5/98	63.25 G	
3/6/98	63.25 G	
3/7/98	63.25 G	
3/8/98	63.5 G	
3/9/98	63.75 G	
3/10/98	64 G	
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3/24/98	66.75 G	

3/25/98	66.75 G
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4/5/98	66.75 G
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4/9/98	67 G
4/10/98	66.75 G
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FEBRUARY 2002