

START

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DON'T SAY IT --- Write It!

DATE: December 6, 1993

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FROM: J. R. Robertson

H6-30

Telephone: (509)376-8162

SUBJECT: REVISION TO JULY 13, 1993, PUREX DEACTIVATION MEETING MINUTES

On July 13, 1993, a meeting was held between the Washington State Department of Ecology, the U.S. Department of Energy, Richland Operations Office, and the Westinghouse Hanford Company. The purpose of the meeting was to discuss deactivation of the Hanford Site PUREX Plant. Proposed treatment processes for process solutions currently in the plant were discussed at this meeting. Signed meeting minutes issued for the meeting erroneously report a part of this discussion.

The error appears in the second paragraph of the signed meeting minutes. Revised text, more accurately reflecting what was actually stated in the meeting, is attached. Please place this information with your records of the July 13, 1993 meeting.



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DOE-RL/CCC

9413135.1729

Transmittal of Revised Meeting Minute Information

PUREX DEACTIVATION MEETING
345 Hills Street, Room 28
Richland, Washington

July 13, 1993
12:30 p.m. - 4:00 p.m.

The undersigned indicate by their signatures that these meeting minutes reflect the actual occurrences of the above-dated meeting.

Randall N. Krekel Date: 12-13-93
Randall N. Krekel, DOE-RL, EAP

D. J. Washenfelder Date: 12-8-93
D. J. Washenfelder, WHC, PUREX

M. Jaraysi Date: 12-13-93
M. Jaraysi, Ecology

Purpose: Discuss PUREX Deactivation Process

Revised meeting minute page is attached.

9413135-1730

Attachment 2

PUREX DEACTIVATION MEETING
345 Hills Street, Room 28
Richland, Washington

July 13, 1993
12:30 p.m. - 4:00 p.m.

Summary of Discussion and Commitments/Agreements

PROPOSED DEACTIVATION ACTIVITIES

9413135.1731

Mr. G. LeBaron (WHC) distributed a handout and gave a presentation regarding proposed PUREX deactivation activities (Attachment 5). Mr. LeBaron stated that WHC/RL's goal is to deactivate the PUREX Plant by September 1996. WHC/RL's objective during deactivation is to minimize waste going to Tank Farms and minimize waste constituents that will eventually go to grout or vitrification. Three proposed activities will be particularly important to the waste minimization effort: co-precipitation of plutonium/uranium (Pu/U) residues currently in Tanks D5 and E6, sugar denitration of nitric acid, and concentration of solutions in the F11 Concentrator. Without co-precipitation, the residue would have to be greatly diluted to meet Tank Farm specifications. Co-precipitation would generate 150 to 300 55-gallon drums of material that would be stored at the Central Waste Complex (or another appropriate location).

Sugar denitration would greatly reduce the amount of waste that would have to be neutralized and diluted before transfer to Tank Farms; it would also reduce the number of moles of sodium transferred to Tank Farms. However, sugar denitration would result in the release of approximately 300 metric tons of NO_x from the stack over the duration of the activity. Additional treatment of the denitrated waste in the F11 Concentrator is also being explored as an option to further reduce the quantity of waste sent to Tank Farms. Mr. LeBaron said that WHC has reservations about the possibility of sending the denitrated waste to F11. Mr. T. Tebb (Ecology) requested elaboration on WHC's reservations, and Mr. LeBaron responded that there were two reasons. During past sugar denitration activities with a different material, which contained aluminum nitrate, the resulting consistency of the material was already very thick, and even difficult to sample. However, there is no aluminum in the solution that will be sugar denitrated during deactivation, and it may be possible to send it through F11 after sugar denitration. The second reason involves time constraints. Sugar denitration would be carried out in approximately 80 batches, taking around five days per batch, and WHC has a three-year timetable to meet.

Use of the F11 Concentrator for waste minimization is proposed for other wastes currently in the plant. It may also be used to recycle flush solutions, minimizing the amount of clean water that would have to be added to the plant for flushing process cells and equipment.

Distribution:

9413135.1732

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G. J. LeBaron	WHC	S6-19
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W. A. Peiffer	WHC	S6-18
S. M. Price	WHC	H6-23
J. E. Rasmussen	RL	A5-15
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J. O. Skolrud	WHC	H6-20
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S. D. Stites	RL	A5-15
G. T. Tebb	Ecology, Kennewick	
R. L. Walser	WHC	S6-17
J. F. Williams Jr	WHC	H6-24
B. D. Williamson	WHC	B3-15

ADMINISTRATIVE RECORD: PUREX, TS-2-6 [Care of EPIC, WHC (H6-08)]

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