0047095

MEMORANDUM

TO: Joan Young

FROM: Dave Murray

February 9, 1995
95-DM-003

SUBJECT: DATA REQUEST FOR RISK ASSESSMENT MODELING

The following is a reply to your memo of January 24, 1994, same subject. The discussion of the source inventories is in the same order as your attached memo.

a) Tank Farms - Attached is a copy of the calculation entitled "Flux From Tanks During Retrieval" that has been sent to Phil Rogers, ESE. It shows the concentrations of ions that will be released from the tanks, the time that release will commence after a Hanford Barrier has been placed over the tanks; and the duration of release from each tank group. The air emissions from the tanks can safely be assumed to be zero for the two alternative PDEIS that we are currently working on.

b) Process Facilities - According to Blaine Barton, WHC Project Manager for the Engineering Data Packages, the closure of the processing facilities will consist of removal of the process equipment; D&D of the facility; after which the facility will be "entombed" (presumably covered with an engineered barrier). The inventory in the closed process facilities will be negligible compared to the inventory in the tanks or vaults, and for the purposes of the two alternative PDEIS that we are now working on, the process facility inventory can safely assumed to be zero for both air and water emissions. Environmental impacts of D&D are outside the scope of the TWRS EIS.

c) LLW Disposal Facility - Also attached is a copy of a calculation entitled "Flux From TPA LLW Vaults" that has been sent to Phil Rogers, ESE. It shows the time required for release to commence from the LLW vaults; the duration of release; and the concentrations of ions that will be released from the vaults. One can safely assume zero air emissions from the LLW vaults for the purposes of the two alternative PDEIS that we are currently working on.

d) Miscellaneous Underground Storage Tanks - At present we have no inventory data concerning the contents of the MUST's. The available data indicates that in all fifty of the MUST's there is slightly more than 35,000 gal of supernate, and slightly more that 205,000 gal of sludge. The total volume of sludge and supernate in 25 of these tanks would be expected to be on the order of 120,000 gal. Leaving 5% of the inventory in these tanks as a residue would amount to 6,000 gal (22710 liters). Compared to the inventory of the SST's and DST's, the air and water emissions from the MUST's can safely be assumed to be zero for the purposes of the two alternative PDEIS that we are currently working on. To date, we have not been informed of the number and locations of the MUST's that will be included in the TWRS EIS.

cc: Project File

Attachments: Engineering Information Request 029
Engineering Calculation: Tank Post Remediation Flux
Engineering Calculation: Flux from TPA LLW Vaults

DM:dm