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Interoffice Memorandum

SRR-CWDA-2013-00135

May 14, 2012

TO: K. H. ROSENBERGER, 705-1C

FROM: S. P. HOMMEL, 705-1C

DATASET FOR THE TANK 5/TANK 6 SPECIAL ANALYSIS MODELING

References:

1: SRR-CWDA-2012-00106, *Tanks 5 and 6 Special Analysis for the Performance Assessment for the F-Area Tank Farm at the Savannah River Site*, Rev. 1, Savannah River Site, January 15, 2013.

2: E-mail J. J. Monahan to S. P. Hommel, *Release of Information (PORFLOW and GoldSim Calculations)*, May 14, 2012.

This memo describes the dataset that was prepared for transmittal to the U. S. Nuclear Regulatory Commission (NRC) in support of their review of the *Tanks 5 and 6 Special Analysis for the Performance Assessment for the F-Area Tank Farm at the Savannah River Site* (Reference 1).

This data represents a number of scientific and engineering modeling activities developed to support waste tank closures at the Savannah River Site (SRS). The NRC has provided the U. S. Department of Energy (DOE) with an external hard drive upon which the data will be transmitted. The external hard drive contains approximately 1 TB of data in more than 200,000 files[1]. A number of the datasets have been zipped to conserve disk space and to reduce the amount of time it takes to transfer the data to a working directory.

This memo is used to generate a unique identifier number to support the ROI request submittal.

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[1] This file count represents the contents of each zipped directory as a single file (e.g., a zipped directory that may contain 40 files is only counted as one file). Therefore, the actual file count may exceed.

Based on an e-mail sent by John Monahan, SRNS Classification Officer, dated May 14, 2012 (Reference 2 - attached), the data files described below present no Information Security concerns and may be released to the NRC without restriction.

This dataset contains the model files that were developed during the preparation of Reference 1. Table 1 provides a summary of the various file types included in this dataset. Table 2 provides the summary directory and file listing. None of these files relate to the sale of items or technology.

Table 1. Summary of File Types in the Dataset

File Extension(s)	Description
.doc (or .docx), .pdf	Document files
.txt	Text files
.xls (or .xlsx)	Excel files
.zip, .gz	Zipped directories
.ACR	PORFLOW read files
.dat	Data files
.loc, .sh, .skr, .sp	PORFLOW read files
.out, .tab, .tec	PORFLOW output files
.flx	PORFLOW flux output files
.lst	PORFLOW list files
.end, .f, .f90, .pbs, .phy, .ply, .py, .sav, .sum, .tmp	Other PORFLOW process files
.in	PORFLOW input files
.log	PORFLOW log files
.ps, .dos	Process scripting files
.ppt	Presentation files
.png, .wmf	Figure files
.plt, .lay,.mcr	Tecplot figure files

Table 2. Summary of Directory and File Listing

Location (FTF_T5T6_SA_PORFLOW_Files)	Description
..\AquiferFTF	PORFLOW modeling results from transport runs at 100m boundary and closer.
..\AquiferGSA	PORFLOW modeling results from transport runs at the seepline
..\Common	Data used for setting up PORFLOW runs.
..\GoldSim	PORFLOW flow fields used as inputs to parametric flow modeling in GoldSim.
..\TimelineFlow	PORFLOW flow timing result data.
..\TimelineTransport	PORFLOW transport timing result data.
..\VadoseAncillaryEquipI	PORFLOW flow and transport files, specific to Ancillary Equipment I.
..\VadoseAncillaryEquipII	PORFLOW flow and transport files, specific to Ancillary Equipment II.
..\VadoseAncillaryEquipIII	PORFLOW flow and transport files, specific to Ancillary Equipment III.
..\VadoseAncillaryPipe	PORFLOW flow and transport files, specific to transfer lines.
..\VadoseTypeI	PORFLOW flow and transport files, specific to Type I waste tanks.
..\VadoseTypeIII	PORFLOW flow and transport files, specific to Type III waste tanks.
..\VadoseTypeIIIA	PORFLOW flow and transport files, specific to Type IIIA waste tanks.
..\VadoseTypeIV	PORFLOW flow and transport files, specific to Type IV waste tanks.

Note: A complete file listing has been provided at the root of the directory for this dataset
(in the file: "*filelisting.txt*")

cc: M. Layton, 705-1C
 L. Romanowski, 705-1C
 J. J. Monahan, 703-45A