SRR-CWDA-2021-00059

July 2, 2021

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DATASET FOR THE TYPE I AND II TANKS SPECIAL ANALYSIS MODELING FOR H-AREA TANK FARM

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 *Type I and II Tanks Special Analysis for the Performance Assessment for the H-Tank Farm at the Savannah River Site* (Reference 1).

This data represents a number of scientific and engineering modeling activities developed to support waste disposal activities at the Savannah River Site (SRS). The U. S. Department of Energy (DOE) will provide the NRC with approximately 2 GB of data in 4 model files.

This memo is used to generate a unique identifier number to support the Request for Information Review and Release.

Based on an e-mail sent by John Monahan, former 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 several of 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 a list of the model files included along with a brief description of each. None of the files relate to the sale of items or technology.

Table 1. Summary of File Types in the Dataset

File Extension(s)	Description
.gsm	GoldSim model files

Table 2. Summary of Files

GoldSim Model File	Description
HTF_Transport_Model_v4.000_Rad_AFZ4_T9.gsm	• Type I Tank • Lined • FZOption = 4 • See Figure 6.7-6 of SRR-CWDA-2016-00078
HTF_Transport_Model_v4.000_Rad_AFZ4_T12.gsm	• Type I Tank • No Liner • FZOption = 4 • See Figure 6.7-9 of SRR-CWDA-2016-00078
HTF_Transport_Model_v4.000_Rad_AFZ2_T13a.gsm	• Type II Tank • Lined • FZOption = 2 • See Figure 6.7-11 of SRR-CWDA-2016-00078 • To reproduce Figure 6.7-16 change FZOption = 2 to FZOption = 1 in Container \SimulationSettings\Switches • To reproduce Figure 6.7-20 change FZOption = 2 to FZOption = 3 in Container \SimulationSettings\Switches
HTF_Transport_Model_v4.000_Rad_AFZ2_T16a.gsm	• Type II Tank • No Liner • FZOption = 2 • See Figure 6.7-14 and Figure 6.7-15 of SRR-CWDA-2016-00078 • To reproduce Figure 6.7-19 change FZOption = 2 to FZOption = 1 in Container \SimulationSettings\Switches • To reproduce Figure 6.7-23 change FZOption = 2 to FZOption = 3 in Container \SimulationSettings\Switches

References:

1. SRR-CWDA-2016-00078*, Type I and II Tanks Special Analysis for the Performance Assessment for the H-Tank Farm at the Savannah River Site*, Rev. 0, Savannah River Site, August 2016.

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

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