SRR Savannah River
Remediation

AECOM |BECHTEL | CH2M | B&W | AREVA

INTEROFFICE MEMORANDUM

November 30, 2015

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

FROM: J. E. MANGOLD, 705-1C

DATASET FOR THE TANK 12 SPECIAL ANALYSIS MODELING

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 *Tank 12 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 a DVD upon which the data will be transmitted. The DVD contains approximately 6 GB of data in approximately 30 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, 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 a list of the directory structure. 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
.doc (or .docx), .pdf	Document files
.xls (or .xlsx)	Excel files
.gsm	GoldSim model files

Table 2. Summary of Directory and File Listing

Location (Tank12_SA)	Description
..\Section6.4_Tank_12_Rad_Delta_Analysis/ GoldSimRunFiles_Rad	GoldSim (*.gsm) model files representing dose calculations and rad modeling performed for the Tank 12 SA.
..\Section6.4_Tank_12_Rad_Delta_Analysis/ QA_ModelCheckForms_Rad	Changed Model Check Forms (.pdf) used for QA purposes
..\Section6.4_Tank_12_Rad_Delta_Analysis/ Supporting_Files_Rad	Legend file (.docx) outlining each rad GoldSim simulation, and an analysis file (.xlsx) of rad model outputs
..\Section6.5_Tank_12_Chem_Delta_Analysis/ GoldSimRunFiles_NonRad	GoldSim (*.gsm) model files representing non-rad modeling performed for the Tank 12 SA.
..\Section6.5_Tank_12_Chem_Delta_Analysis/ QA_ModelCheckForms_NonRad	Changed Model Check Forms (.pdf) used for QA purposes
..\Section6.4_Tank_12_Rad_Delta_Analysis/ Supporting_Files_NonRad	Legend file (.docx) outlining each non-rad GoldSim simulation, and an analysis file (.xlsx) of rad model outputs

References:

1. SRR-CWDA-2015-00073, *Tank 12 Special Analysis for the Performance Assessment for the H-Tank Farm at the Savannah River Site*, Rev. 0, Savannah River Site, August 2015.

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

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

Release of Information (PORFLOW and GoldSim Calculations)

John Monahan   to: Steven Hommel   05/14/2012 12:59 PM

Dorinda Fountain, Kent Rosenberger, Richard Sheppard, Barry
Cc: Lester, Joann Wingard, Daniel Campbell, George Rodrigues, Michael
Burch, Reginald Waltz

Over the past few years, the Classification Office has performed several information release reviews of
data files associated with calculations for radiation dose to a theoretical person that builds their house on
top of an SRS decommissioned waste tank. These models will be required for each waste tank as we
proceed through the decommissioning and closure process. The modeling software and tables containing
basic science information for the residual radioisotopes in the tanks are unclassified subject areas.

Updates to the GoldSim and PORFLOW modeling files and programs, used for the calculations described
above, do not require further review by the Classification Office. This also applies to modeling data for
other waste tanks as we move through the decommissioning and closure process.

As we discussed, please generate a Request for Information Review and Release and attach this email
when updates or new tanks are modeled and require submission to the regulators.

NOTE: If any technical discussion of SNM processing or how SNM is used in nuclear weapons is
included, then the full document must be reviewed for information security concerns.

John J. Monahan
SRNS Classification Officer