Rockwell International
Rockwell Hanford Operations
Energy Systems Group

No. 10300-83-131

COPIES TO		TELEPHONE CONFERENCE
E. B. Ash-Rockwell	O. L. Olson-DOE	Time 11:00 a.m. Date 12/13/83
L. R. Fitch-Rockwell	F. R. Cook-NRC	☒ Incoming ☐ Outgoing
J. H. LaRue-Rockwell	P. Justus-NRC	With Dr. Clyde Clayborne
P. F. Salter-Rockwell	R. J. Wright-NRC	Representing Oak Ridge National Laboratory/NRC
M. J. Smith-Rockwell	LB/Records Retention	With P. F. Salter for M. J. Smith
R. T. Wilde-Rockwell		Representing Rockwell

Commitment Made ☐ Yes ☒ No File

Purpose Of Telecon

Codes Being Used by the Engineered Barriers Department for Waste Package Analyses

Text Of Telecon

Dr. Clayborne is preparing a review document on methodologies (computer codes) for predicting environmental parameters of import to waste package performance. He had several questions relative to the codes we are using or planning to use. Particularly, he wanted to know if the Performance Assessment Plan (BWI-SD-PAP-001) was referenceable; I stated that I thought it was referenceable, but would check with licensing to make sure and get back with him on this point. He also wanted to know which codes we were considering for evaluating T, P, radiation, and water chemistry. I stated that we were looking at modifying WAPPA or using parts of WAPPA in the development of our waste package analyses code. HEATING5 was being used to estimate temperature, and pressure was assumed to be either atmospheric or hydrostatic. Dr. Clayborne agreed that HEATING5 was one of the better codes to use for temperature. He also stated that he didn't feel modeling of the pressure regime was necessary for waste package. Several codes were still being evaluated for estimating the radiation field expected in near-field environment and for evaluating the groundwater chemistry changes due to interaction of groundwater with waste package components. I also stated that Tom Woolery's (LLL) modification of EQ3EQ6 to handle metastable phases and some kinetics was a prime contender for our geochemical model.

P. F. Salter, Manager, Near-Field Geochemistry (Signature)

12-13-83 (Date)

54-6000-120 (R-6-78)