NWTRB PRESENTATION AGENDA
JANUARY 18-19, 1990

WASTE PACKAGE ENVIRONMENT AND CONTAINERS

JANUARY 18

8:30	Technical Review Board Introductory Remarks	Price/Verink
8:45	Department of Energy Remarks	Isaacs
9:00	Introduction Introductory Remarks Organizational Summary Repository Underground Configuration	Jardine

Waste Package, Environment (near field) (Dale)

9:30	Introduction	Wilder
9:45	Hydrologic Interactions Undisturbed conditions Physical effects of waste package emplacement Modeling studies (non-isothermal), including validation Fracture/matrix interactions	Buscheck/ Nitao
10:15	Geochemical Interactions Undisturbed conditions Physiochemical effects of waste package emplacement Stability of minerals in repository temperature field Characteristics of near-field geochemistry Radionuclide behavior at elevated temperatures Modeling studies (non-isothermal), including validation	Glassley
10:45	Mechanical Attributes of the Waste Package Environment Borehole stability Rock properties Fracture properties Thermomechanical effects of waste package emplacement Modeling and validation	Blair
11:10	G-Tunnel Prototype Temperature field Moisture content changes Permeability changes Vapor-steam inflow to borehole Hydrothermal flow models Instrumentation performance	Ramirez
11:40	Interaction of Radiation with the Waste Package Environment Radiolysis in moist air Interaction of radiolysis products with the rock, container, and waste form	Van Konynenburg

JANUARY 18 (Cont)

12:00	Lunch	
1:30	Tour of LLNL Facilities (NWTRB members and invitees only)	

JANUARY 19

8:30	Discussion of Lab Tour	

Waste Package Container

9:00	Introduction	Clarke
9:15	Strategy for Container Material Selection Objectives Initial selection criteria Interim screening Current criteria Peer review	Halsey
10:30	Candidate Material Performance Phase stability Oxidation and Corrosion Localized corrosion Stress corrosion cracking Hydrogen effects Weldability	McCright
12:00	Lunch	
1:00	Corrosion Properties Testing: Stress corrosion cracking Electrochemistry Fracture Toughness Radiolytic Effects	Farmer
2:00	Modeling: Existing Models Evaluation/Selection Model Development Parameter Determination Test Requirements	
3:00	Alternative Materials and Concepts Rationale Option Description	Clarke
4:00	Board Summary Discussion (closed)	
5:00	Adjournment	