

Focus Of Ongoing Evaluations: Integrate ESSE, TPT, and PA Results by Evaluating the Ability of "Tests" to Detect Unsuitable Site Conditions

	Technical issues to be Resolved (from ESSE Results)						
"Tests" (from SCP)	Sustained Flow	Ground Water Travel Time	Radionu- clide Retradation	Colloidal Species	Gaseous Migration	Ability to Detect Unsuitable Conditions	
Geohydrology/Hydrochemistry Unsaturated zone surface-based package 8.3.1.2.2.1 Unsaturated zone (UZ) Infiltration 8.3.1.2.2.3 Surface/based UZ percolation 8.3.1.2.2.7 UZ hydrochemistry 8.3.1.2.2.8 UZ fracture flow 8.3.1.2.2.9 UZ modeling and synthesis	Assessments of indicators 0 Negligible contribution 1 Marginal contribution 2 Potential contribution as part of p 3 Sufficient single test				 		
Weights for combining columns Probability condition is present Probability site is unsuitable, given condition Weight (TPT report)		actors ext ppropriate	racted from T	PT report	, where		

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General Spreadsheet Mode

(Adapted From Test Prioritization Task, Mattson et al. 1991)

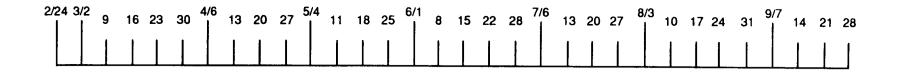
	Ability to	Crit	eria			[· · · · · · · · · · · · · · · · · · ·
	Detect Unsuitable Site Conditions	Provide Regulatory Assurance (NRC)	Build Scientific Confidence	Maintain Constitutent Confidence	Cost/ Schedule	Ranked Benefit
Surface-Based Tests Geohydrology/Hydrochem. Geochemistry Gas Flow Rock Characteristics Climate/Paleoclimate Erosion Post Closure Tectonics Human Int./Nat. Res. Site Meteorology Surface Characteristics Preclosure Hydrology Preclosure Tectonics EBS Underground Tests Exploratory Drifting Geomechanics Hydrology Geochemistry Geology Thermal Response Waste-package Envir. Seals Construction-phase test			assessed dir I assessmer	rectly or com	nputed	
Weight						
Normalized Weights						

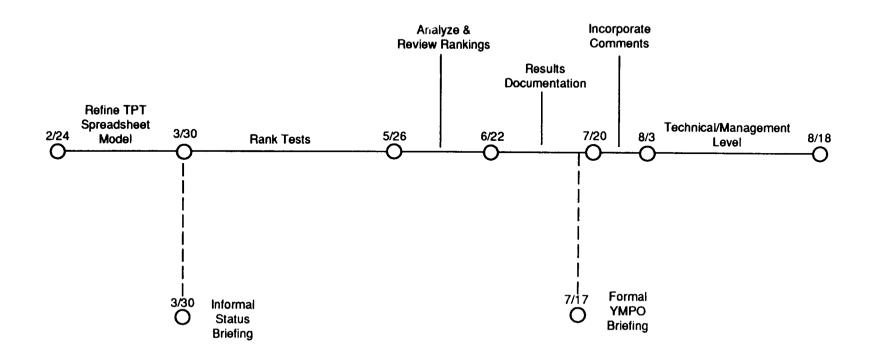
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Resource Summary for Current Prioritization Effort

Organization	Expertise		
T&MSS	Geotechnical (Mineral Resources) Geological Engineer		
M&O	Task Manager Geotechnical Engineering Performance Assessment		
SNL	Performance Assessment		
LANL	Geotechnical/Geochemist		
USGS	Geologist Hydrologist		
LLNL	Engineered Barrier System		

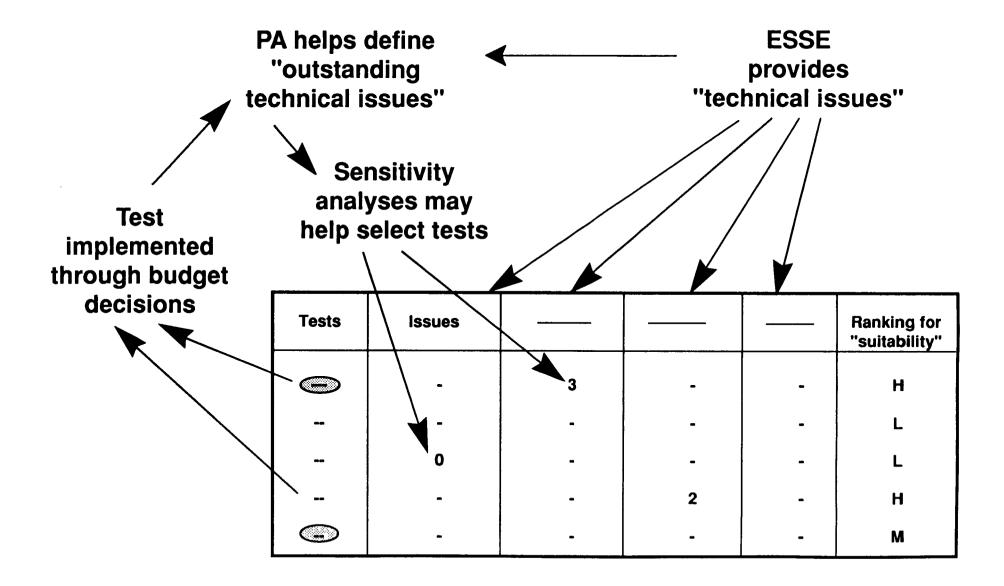
Logic and Schedule for Ongoing Prioritization Task





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Integration of PA, ESSE, and Site Characterization



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Use of Prioritization Results

- FY93 allocation of budget to site studies
 and activities
- Input/interface with long-range program planning
- Spreadsheet model can be used to consider other priorities and trade-offs, as appropriate