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426.1/AE/95/11/04

Dr. Allan Jelacic
 Geosciences & Technology Division
 Office of Civilian Radioactive
 Waste Management
 Department of Energy
 Washington, DC 20585

Dear Dr. Jelacic,

Enclosed are points for discussion with your staff at the December 3-4, 1985 meeting regarding the rationale for seismic/tectonic investigations for licensing a nuclear waste repository. The list of points should be considered in developing an agenda.

Please contact me (FTS 427-4728) if you have any questions.

Sincerely,

Seth M. Coplan, Section Leader
 Repository Projects Branch
 Division of Waste Management
 Office of Nuclear Material Safety
 and Safeguards

Enclosure:
 Points for Discussion

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1.

Points for Discussion with
DOE on "Rationale for Seismic/Tectonic
Investigations for Licensing a
Nuclear Waste Repository"

1. The logic flow in the Table of Contents.
2. Section II B: the intended application of terms identified in the provisional list of definitions.
3. Section III A: criteria to be used to identify significant seismic/tectonic processes.
4. Section III A: methods for evaluating potential impact of seismic/tectonic processes on pre-closure and post-closure performance objectives.
5. Section III A and C: clarification of the terms processes, phenomena, and events.
6. Section III C: inclusion of groundwater travel time in pre-closure as well as post-closure issues.
7. Section IV B: limitations of the ground motion models and the distribution functions.
8. Section IV B: the difference between remnant and residual stress.
9. Section IV C: the consideration of thermal effects on tectonic processes.
10. Section IV D: the role of consensus opinion in reducing conceptual and numerical uncertainties.
11. Section V B: what is meant by complementary earthquake approaches acceptable for other nuclear facilities.
12. Section V B: the specific structures, systems and components important to safety that would be vulnerable to the process.
13. Section V B: the proposed method of fragility analysis that will be used to evaluate the impact based on a pre-conceptual level of design of such structures, system and components.

14. Section VI C: inclusion of shaft and borehole seals in the list of items that should have effects of seismic/tectonic phenomena examined.
15. Section VII B: the adequacy of the conceptual design to allow meaningful analysis.

FROM HKnapp		DATE OF DOCUMENT 10/8/85	DATE RECEIVED 10/10/85	NO WM-85903
TO HJMiller		LTR	MEMO XX	REPORT OTHER
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DESCRIPTION (Must Be Unclassified)		FILE CODE:	426-1 109.3	DATE ANSWERED BY 10/24
Annotated Outline of Rationale for Seismo-Tectonic Investigations for Licensing a Nuclear Waste Repository		REFERRED TO	DATE	RECEIVED BY / DATE
		HJMiller	10/14	10/10
		SCoptan	10/15	
		hinchon	10/17	
ENCLOSURES				
REMARKS				
Closed 11/6/85 Letter to Dr. A. J. Jelicic				