1093 	MAR 0 8 1985 /07	WM Record File	WCA Proje Docket Na PC L7:	: :
		(Return to Will, 623-83)	 	
MEMORANDUM FOR:	Myron Fliegel, Section Leader Geotechnical Branch Division of Waste Management	DISTRI WM 310 NMSS r WMGT r	DISTRIBUTION: WM 3108.12 s/f JBr NMSS r/f LKo WMGT r/f PJu	
FROM:	Richard Codell Hydrology Section Geotechnical Branch Division of Waste Management	RCodel MKnapp JOBunt MJBell	, l & r/f ing	1043243

SUBJECT: RESULTS OF ANALYSES FOR SILICA DISSOLUTION

I have performed several calculations to assess the fractional change in porosity of rock near a repository caused by the dissolution of silica in flowing groundwater. Results of the analyses using typical HLW repository dimensions, heat loads, and typical to conservative groundwater fluxes indicate that increase in porosity because of the solution of silica would be expected to be a small fraction of the initial rock porosity. The small change in porosity is probably negligible in defining the disturbed zone. The following report describes the models used to perform the analyses.

Dick

Richard Codell Hydrology Section Geotechnical Branch Division of Waste Management

Enclosure: Analysis of the Dissolution of Silica Near HLW Repositories

		85041 PDR	70346 85030 WASTE	B		
	RC	WM-1	P)	DR		 
FC	:WMGT kd	:	:	:	•	
AME	:RCode11					 
ATE	:85/03/07			:		 ,