

Geosciences Management Institute, Inc.
1000 Nevada Highway, Suite 106
Boulder City, NV 89005-1828
Voice: (702) 294-3064; FAX: -3065

MEMORANDUM

31 October 2000

To: Yucca Mountain File, Nye Co. N.W.R.P.O.
From: Don L. Shettel
Subject: Review of AMR/PMR: ANL-EBS-MD-000005 Rev 00.

Title: Stress Corrosion Cracking [SCC] of the Drip Shield, the Waste Package Outer Barrier, and the Stainless Steel Structural Material.

Too much reliance is placed on models with very little site specific data to support them. Only assumptions are made about welds.

Aqueous phase chloride ion is believed to be the culprit for SCC, but recent work outside of DoE (State contractors) suggests that trace deleterious elements (such as lead and mercury) may be more important.

This report will ultimately require major revisions.