

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

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**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-000023 Rev 00.

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Title: Analysis of Mechanisms of Early Waste Package Failure.

This entire analysis of early failures is based on literature evaluation of other metals used to make containers (of any type). None of these had anything to do directly with alloy C-22 and the Yucca Mountain repository. DoE has extremely limited experience working directly with alloy C-22 and has not built a prototype canister of any scale with welds.

Therefore, this report/analysis is non-material, non-site specific and should be largely ignored until major revisions are made based on realistic experience with the proper material.