

Center for Nuclear Waste Regulatory Analyses

6220 CULEBRA ROAD • P.O. DRAWER 28510 • SAN ANTONIO, TEXAS, U.S.A. 78228-0510
(210) 522-5160 • FAX (210) 522-5155

July 8, 1998
Contract No. NRC-02-97-009
Account No. 20-1402-471

U.S. Nuclear Regulatory Commission
ATTN: Philip S. Justus
Office of Nuclear Material Safety and Safeguards
Two White Flint North
Mail Stop 7 C6
Washington, DC 20555

Subject: Constant Thickness Deformation Above Curved Normal Faults (IM 20-1402-471-733)

Reference: (1) Transmittal letter—McKague to Justus dated June 19, 1997
(2) Acceptance letter—Justus to McKague dated July 9, 1997

Dear Dr. Justus:

Enclosed is IM 20-1402-471-733 entitled Constant thickness deformation above curved normal faults. This milestone was originally submitted June 19, 1997 as IM 20-5708-471-733. In the July 9, 1997 acceptance letter NRC staff suggested "...that substantial and significant simplifications to at least two equations could be made...". The inputs of Drs. Budhi Sagar and Lee Abramson on the development of the equations have been incorporated into this version of the manuscript. In addition comments by the Journal of Structural Geology peer reviewers have been incorporated into the current version of the manuscript. Resolution of the journal reviewers' comments, in general, required clarification of the logic used by the authors. A short section on fault trajectory prediction using a minimum deformation approach was added to this version of the manuscript.

If you have any questions please contact Dr. David Ferrill at (210) 522-6082 or me at (210) 522-5183.

Sincerely,

H. Lawrence McKague
Manager, Geology and Geophysics

9808070220 980708
PDR WASTE PDR
WM-11

/adm
Enclosure

- | | | | |
|-----|-----------------|----------------|--------------------------------|
| cc: | J. Linehan | M. Bell | CNRA Elem. Mgrs. |
| | D. DeMarco | J. Thoma | S. Boyanowski (SwRI Contracts) |
| | B. Stiltenspole | D. Brooks | A. Morris |
| | B. Meehan | K. Stablein | D. Ferrill |
| | J. Greeves | W. Patrick | J. Stamatakos |
| | M. Weber | CNRA Directors | D. Sims |
| | J. Austin | | |

NIH 15/11
426.1
wm-11

D:\McKague\Letmem\lm069804lm



Washington Office • Twinbrook Metro Plaza, #210 • 12300 Twinbrook Parkway • Rockville, Maryland 20852-1606

070000 delete all distribution except: File Center, NRC PDR & NRC docs
July kept