



Department of Energy

Nevada Operations Office
P. O. Box 98518
Las Vegas, NV 89193-8518

WBS #1.2.5.2
"QA: N/A"

SEP 07 1989

Paul T. Prestholt
Site Representative
U.S. Nuclear Regulatory Commission
1050 East Flamingo - Suite 319
Las Vegas, NV 89119

STATUS OF U.S. NUCLEAR REGULATORY COMMISSION (NRC) REQUEST FOR REFERENCE IN
REPORT SAND85-0598

Reference: Letter, Hunter to Dobson, dtd. 5/16/89

This letter is in response to your request for copies of eight cross-sections used in support of the flooding analyses documented in "Analyses to Evaluate the Effect of the Exploratory Shaft on Repository Performance of Yucca Mountain", SAND85-0598 (Fernandez et al.). Two of the eight cross-sections are shown in the report. The NRC requested that all eight cross-sections be provided in larger scale.

All but two of these sections (Figures 3-1 and 3-2 in the subject report) were used simply as back-up information to assure that flow channels were in reasonable locations. However, the information necessary to plot all of the sections, including the location and the contours of the eight cross-sections, is provided in the enclosed referenced letter. We trust this letter will provide the information you require.

If you have any questions, please contact David C. Dobson of my staff at 794-7940, or Joseph A. Fernandez of Sandia National Laboratories at (505) 844-2365.

Maxwell B. Blanchard, Director
Regulatory and Site Evaluation Division
Yucca Mountain Project Office

YMP:DCD-5370

Enclosure:
Ltr 5/16/89 Hunter to Dobson

cc w/encl:
Gordon Appel, HQ (RW-331) FORS
J. A. Fernandez, SNL, 6310, Albuquerque, NM
M. L. Brown, SAIC, Las Vegas, NV, 517/T-27
M. A. Glora, SAIC, Las Vegas, NV, 517/T-27
J. L. King, SAIC, Las Vegas, NV, 517/T-03
M. D. Voegelé, SAIC, Las Vegas, NV, 517/T-03
A. R. Jennetta, W, Las Vegas, NV, 517/T-27

8909150056 890911
PDR WASTE
WM-11 PDC

Sandia National Laboratories

Albuquerque, New Mexico 87185

May 16, 1989

WBS: 1.2.4

QA: N/A

Dave Dobson
Yucca Mountain Project Office
U.S. Department of Energy
Nevada Operations Office
P.O. Box 98518
Las Vegas, NV 89193-8518

Dear Dave:

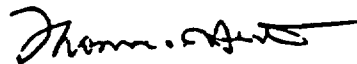
Subject: Information for Cross-Section Development Supporting Flooding
Evaluation in SAND85-0598

Mike Glora and Mary Lou Brown have contacted us recently regarding a request by the NRC for information on cross-sections used in support of the flooding analyses documented in SAND85-0598. As mentioned on page 26 of SAND85-0598, a total of 8 cross-sections were used in the flow evaluations. The 2 cross-sections directly used in the flooding evaluations are documented in Figures 3-1, 3-2, 3-4, and 3-5. The other 6 cross-sections were strictly used as backup information to assure that the flow channels were in reasonable locations throughout Figures 3-1 and 3-2. [A ninth cross-section (I-I') was added to provide additional confirmation to the flood map.] Since all but 2 of these sections were only used as backup or confirmatory information, they were not documented in the report.

To aid the NRC staff in their evaluations, the information necessary for the cross-sections is attached. The attachment indicates the location of the cross-sections and provides the contours necessary for plotting the sections. This information is considered to be sufficient to allow technical evaluations to be made of the report. We trust that you will transmit the information to Paul Prestholt.

If you have questions regarding this submittal, please contact Joe Fernandez or Joe Tillerson.

Sincerely,



Thomas O. Hunter, Manager
Nuclear Waste Repository Technology
Department 6310

JRTillerson:6314:11

ENCLOSURE

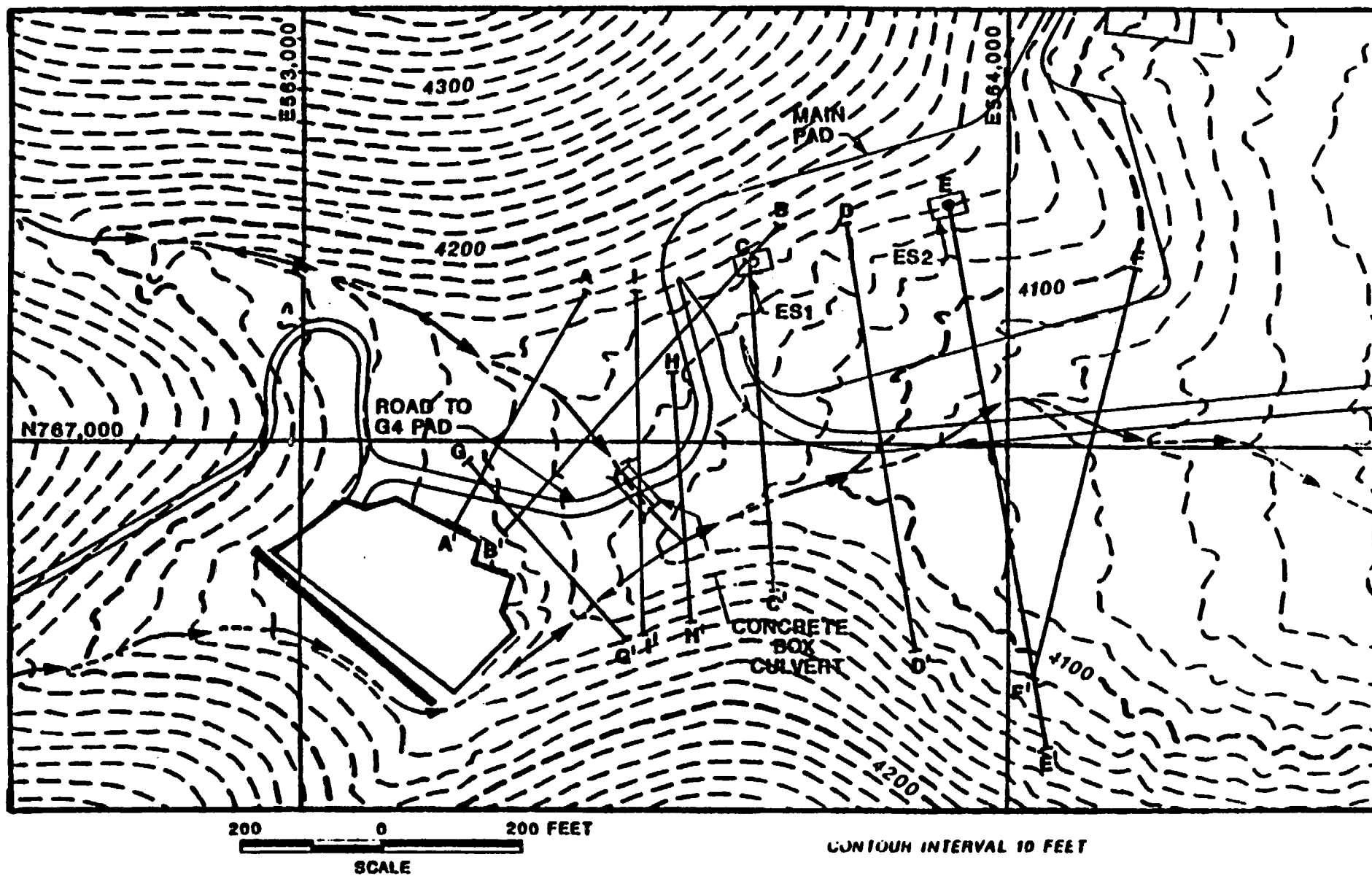


FIGURE 2 LOCATIONS OF TOPOGRAPHIC CROSS SECTIONS

Dave Dobson, YMPO

-2-

May 16, 1989

Copy to:

M. Glora, SAIC

M. Brown, SAIC

6310 T. O. Hunter

7x7 6314 J. R. Tillerson

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