



**Department of Energy**  
Office of Civilian Radioactive Waste Management  
Yucca Mountain Site Characterization Office  
P.O. Box 98608  
Las Vegas, NV 89193-8608

JUN 23 1995

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Recovery Projects Branch  
Division of Waste Management  
Office of Nuclear Material Safety  
and Safeguards  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

EXPLORATORY STUDIES FACILITY (ESF) TITLE II DESIGN EXTERNAL  
REVIEW: ESF LAYOUT CALCULATION (SCPB: N/A)

Reference: Ltr, Brocoum to Holonich, dtd 6/8/95

Enclosed for your information (enclosure 1) is the second of a series of design analyses that are part of the ESF Title II Main Drift design (Design Package 8A). The sequencing and approximate delivery date for each installment of the series of design analyses comprising Design Package 8A were identified in the transmittal letter for the first design analysis (reference). We again provide this enclosure for your convenience (enclosure 2). As for the first design analysis, we encourage the U.S. Nuclear Regulatory Commission (NRC) to participate as an observer and ask that you forward any observations you wish to provide to us within one week of receipt of this letter.

We have sought to enhance the efficiency and effectiveness of our design review process, and to that end, we have made some changes to past practices. The most significant change in our process is the conversion of design packages into individual design analyses. We believe this change provides for a review process that is conducive to our phased approach to ESF design and that still allows us to benefit from external input. Further, shifting to design analyses decreases our reproduction costs and decreases travel expenses for observers because analysis packages will not need review meetings.

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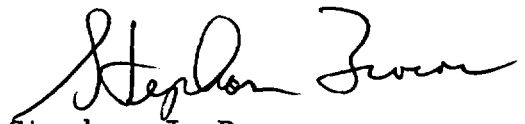
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These changes to our process improve our internal management of the design process, and provide the NRC and other external parties a chance to bring forward observations while each design analysis is under U.S. Department of Energy review at the Yucca Mountain Site Characterization Office.

If you have any questions, please contact either Thomas W. Bjerstedt of my staff at (702) 794-7590 or Philip R. Hammond of the Civilian Radioactive Waste Management System Management and Operating Contractor at (702) 794-5153.



Stephan J. Brocoum  
Assistant Manager for  
Suitability and Licensing

AMSL:TWB-3592

Enclosures: (NOT RECORD MATERIAL)

1. ESF Layout Calculation
2. Proposed Schedule

cc w/encls:

L. H. Barrett, HQ (RW-2) FORS  
R. A. Milner, HQ (RW-30) FORS  
A. B. Brownstein, HQ (RW-36) FORS  
C. E. Einberg, HQ (RW-36) FORS  
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W. D. Barnard, NWTRB, Arlington, VA  
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W. L. Belke, NRC, Las Vegas, NV  
C. J. Glenn, NRC, Las Vegas, NV

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cc w/o encls:

R. R. Loux, State of Nevada, Carson City, NV  
Bob Price, State of Nevada, Carson City, NV  
Cyril Schank, Churchill County, Fallon, NV  
D. A. Bechtel, Clark County, Las Vegas, NV  
J. D. Hoffman, Esmeralda County, Goldfield, NV  
Eureka County Board of Commissioners, Eureka, NV  
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Jason Pitts, Lincoln County, Pioche, NV  
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L. W. Bradshaw, Nye County, Tonopah, NV  
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R. I. Holden, National Congress of American Indians,  
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S. J. Brocoum, YMSCO, NV  
R. V. Barton, YMSCO, NV  
A. V. Gil, YMSCO, NV

**Proposed Schedule**

ESF Design Analysis	External Review Package Availability
Geology of the ESF TS Loop	05/23/95
ESF Layout Calculation	06/12/95
Subsurface Determination of Importance Evaluation	06/30/95
Test, Inspection & Material Dedication: Shotcrete, Rockbolts & Accessories	
ESF Ground Support - Structural Steel Material Dedication Analysis	
Subsurface General Construction Methods	07/07/95
ESF Ground Support - Structural Steel Analysis	
Location & Sizing Analysis of ESF Alcoves	
TBM Tunnel Precast Concrete Invert Segment	
ESF Ground Support Design Analysis	07/14/95
Alcove Turnout Frame Analysis	08/18/95
Alcove/Drifts Steel Sets Analysis	

\* This schedule reflects current plans and may be changed.