<b>v</b> 7		•.
VLCCA MOLIVITAIN	YUCCA MOUNTAIN PROJECT	
V		

## EXPLORATORY STUDIES FACILITY TITLE II DESIGN: DESIGN PACKAGE (1A) 90% INDEPENDENT TECHNICAL REVIEW

## **UNDERGROUND TESTING FUNCTIONS AND INPUT**

July 27, 1992

Ned Z. Elkins Los Alamos National Laboratory ESF Design Coordinator

•

Los Alamos \_\_\_\_

YUCCA
MOUNTAIN
PROJECT

YUCCA HOUNTAIN

44

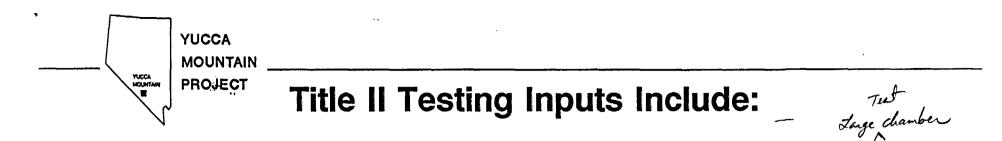
## Procedural Bases For Developing Testing Inputs To ESF Title II Design:

- 1. Development of Underground Test Planning And Test-Related Facility Design Requirements Is Coordinated By Los Alamos With Full Support Of Testing Leads And Principal Investigators From USGS, LLNL, SNL, And LANL
- 2. Test Program Definition And Development Are Consistent With ESF Title I Design And ESFDR
- 3. Test Program Defined Through Initial (Preliminary) Test Planning Process (AP-5.32Q), And Subsequent Detailed Test Planning For Each ESF Test Activity
- 4. Test Planning Information And Requirements Used To Supplement ESFDR

Los Alamos

prelimany plami, test package is based on

ESFOR



4 4

- 1. Identification Of Planned Tests (From SCPB and Preliminary TPP 91-5)
- 2. Test Locations (Defined by Geology and ESF Drift/Ramp Configuration)
- 3. Test Descriptions (Including Space Requirements and Necessity For Alcove Development)
- 4. Constraints And Requirements For Facility Design And Test Support, and Test Instructions/Controls

If the configurate changes agains cant , the study plans have to be revised .

 Information Contained In Current ESFDR Is Adequate To Support Initial Title II Facility Design (through 90% review of first design package).
Detailed Requirements For Tests To Be Implemented For Design Package
✓ 1A (TBM launch chamber) Are Being Developed By LANL, Participant PIs, And The A/E. These Requirements Will Be Developed In Test Planning And Reflected In Revisions To The ESFDR, Appendix B.

Los Alamos \_\_\_



- 1. Underground Geologic Mapping (SCPB 8.3.1.4.2.2.5)
- 2. Consolidated ESF Sampling (Various SCPB 8.3.1.2, 8.3.1.3, 8.3.1.15, and 8.3.4.2 Activities) will be conducted in ESF taunch chamber
- 3. Hydrochemistry (SCPB 8.3.1.2.2.4.8)
- + 4. Radial Borehole Test, Tiva Anisotropy (Alcove) (SCPB 8.3.1.2.2.4.4) Two primary texts, terminality changes at this minut. No myre review.

5. Perched Water Test (SCPB 8.3.1.2.2.4.7) (Contingency Test) St we list the public water graded water graded