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OFFICE OF (U.S. DEPARTMENT OF ENERGY CIVILIAN RADIOACTIVE WASTE MANAGEMENT	
	ASTE TECHNICAL REVIEW BOARD FULL BOARD MEETING	
SUBJECT:	THE DOE PROCESS FOR RESOLVING DIFFICULT ISSUES	
PRESENTER:	MAXWELL B. BLANCHARD	
PRESENTER'S TITLE AND ORGANIZATION:	DEPUTY PROJECT MANAGER U.S. DEPARTMENT OF ENERGY LAS VEGAS, NEVADA	
PRESENTER'S TELEPHONE NUMBER:	(702) 794-7939	
-	RENO, NEVADA APRIL 21-22, 1993	

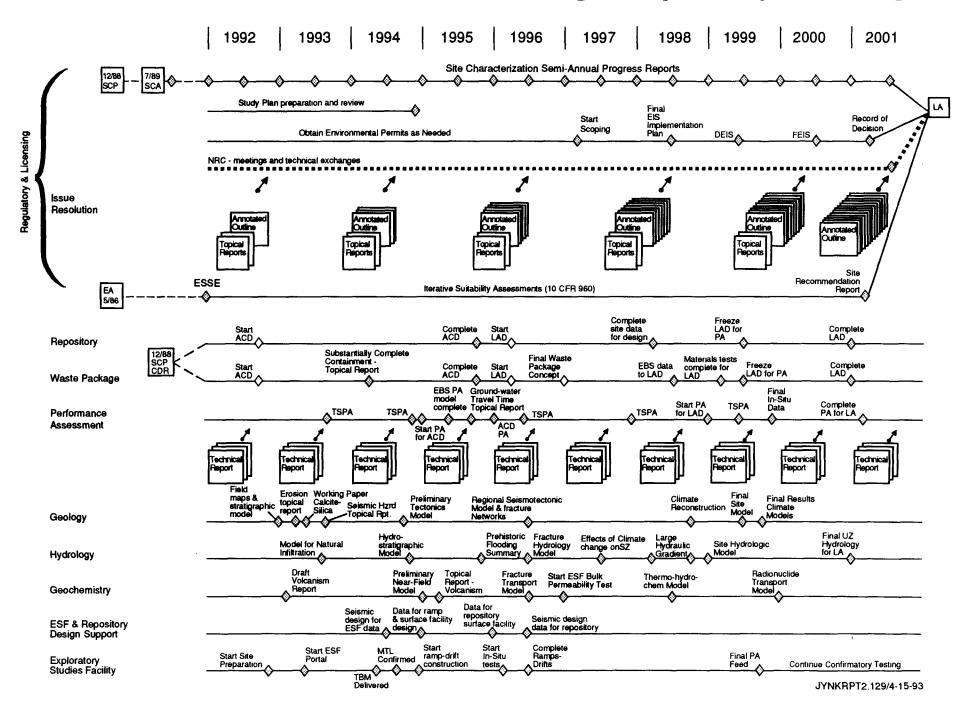
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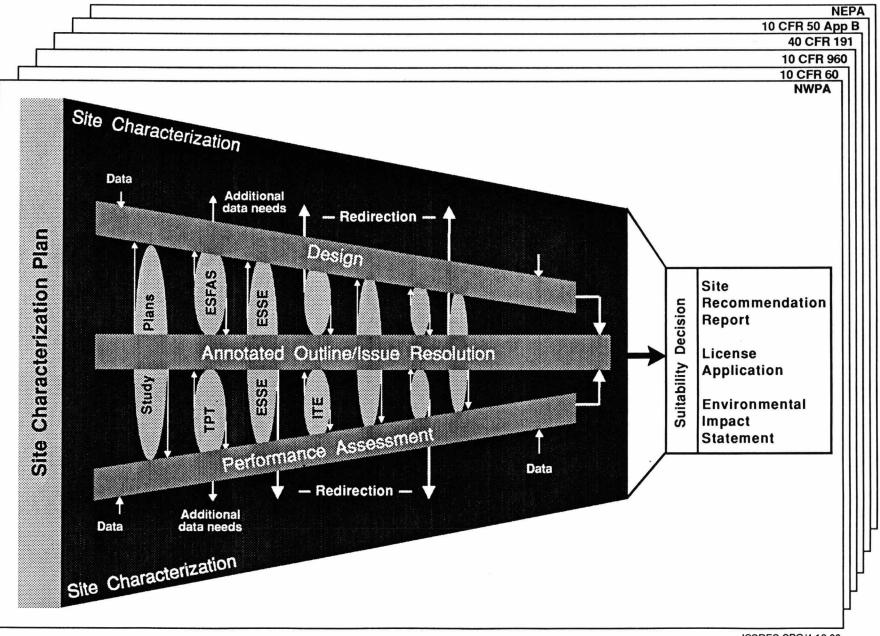
Overview

- What is the overall concept for managing the Site Characterization Technical Programs?
- What are the applicable requirements?
- What parts of the Program need to be controlled and what is the Technical Baseline?
- How important is quality assurance at this phase of site characterization?
- What process is being used to plan, implement, and evaluate site characterization testing?

Site Characterization Phase of Mined Geologic Disposal System Program



Approach to Resolution of Issues



ISSRES.CPG/4-16-93

What are the Applicable Requirements?

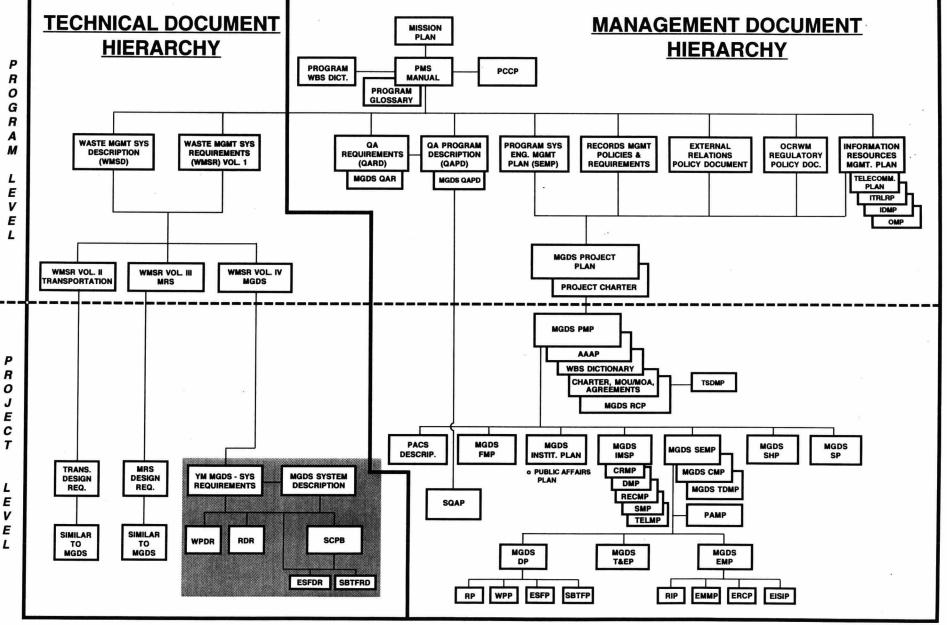


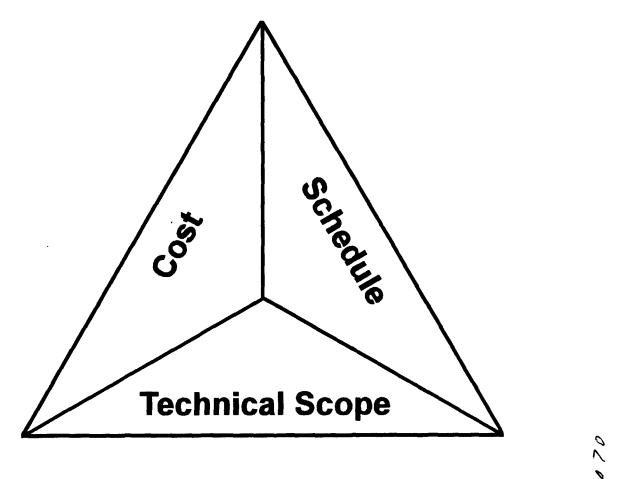
Figure 3-2. Yucca Mountain Project Document Hierarchy.

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What parts of the Program need to be controlled and what is the Technical Baseline?

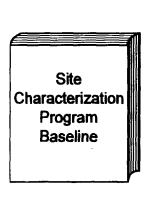
Elements of the Baseline

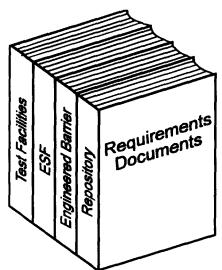


What is the Technical Baseline?

The set of documents systematically developed and * Jo tart formally approved that contain the

- **Objectives of the site characterization program**
- **Descriptions of the engineered system designs** •
- **Requirements placed on the engineered and** natural systems



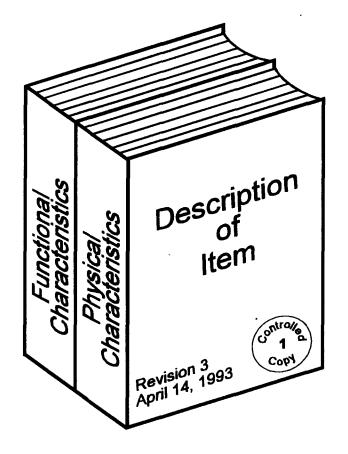






How is the Technical Baseline Controlled?

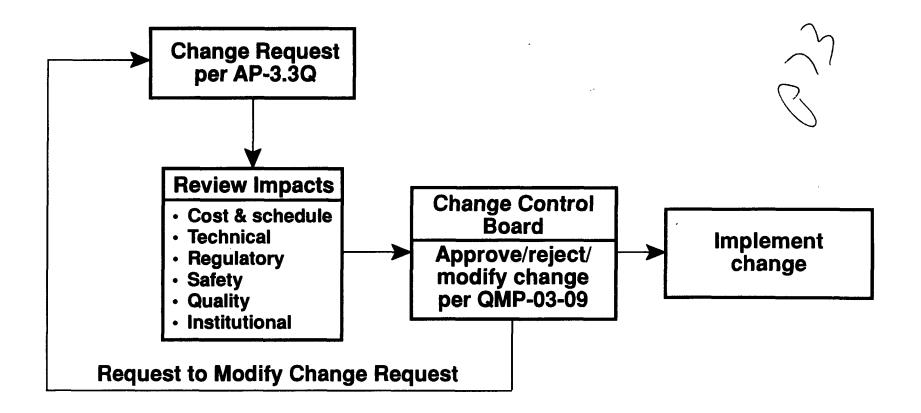
Configuration Management and Change Control



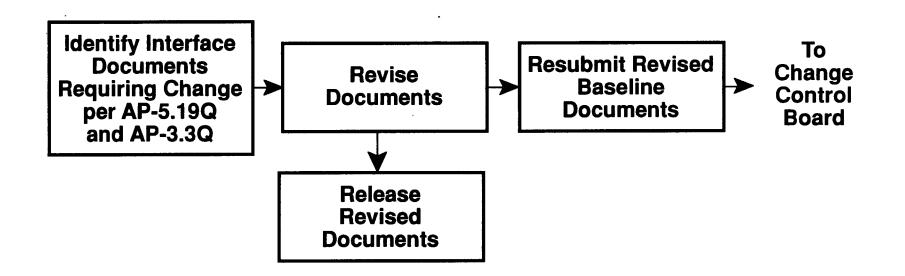
- Identify and document the functional and physical characteristics of the item to be controlled
- Make changes only through a controlled review-andapproval process
- Record and report status of changes

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Change Control Process

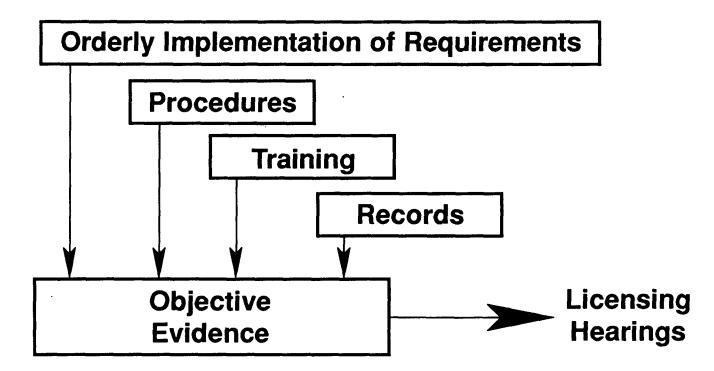


Implementing the Change

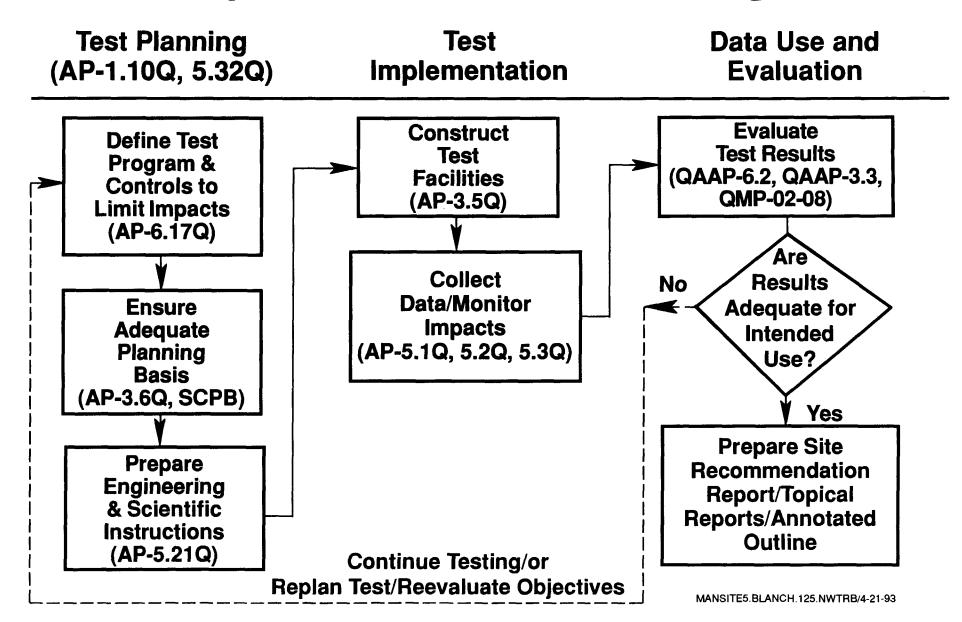


How Important is QA at this Phase of Site Characterization?

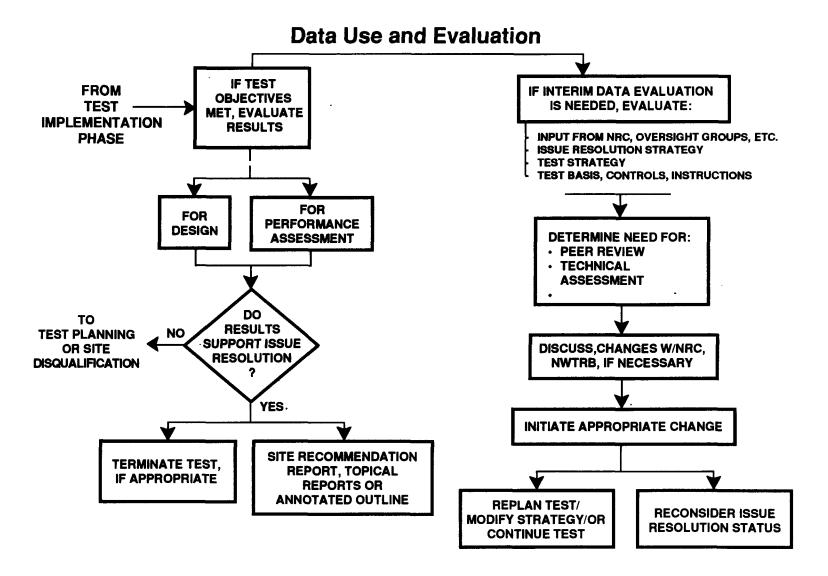
NRC requires a nuclear QA program be in place during the site characterization phase of the repository program



What Process is Being used to Plan, Implement, and Evaluate Testing?



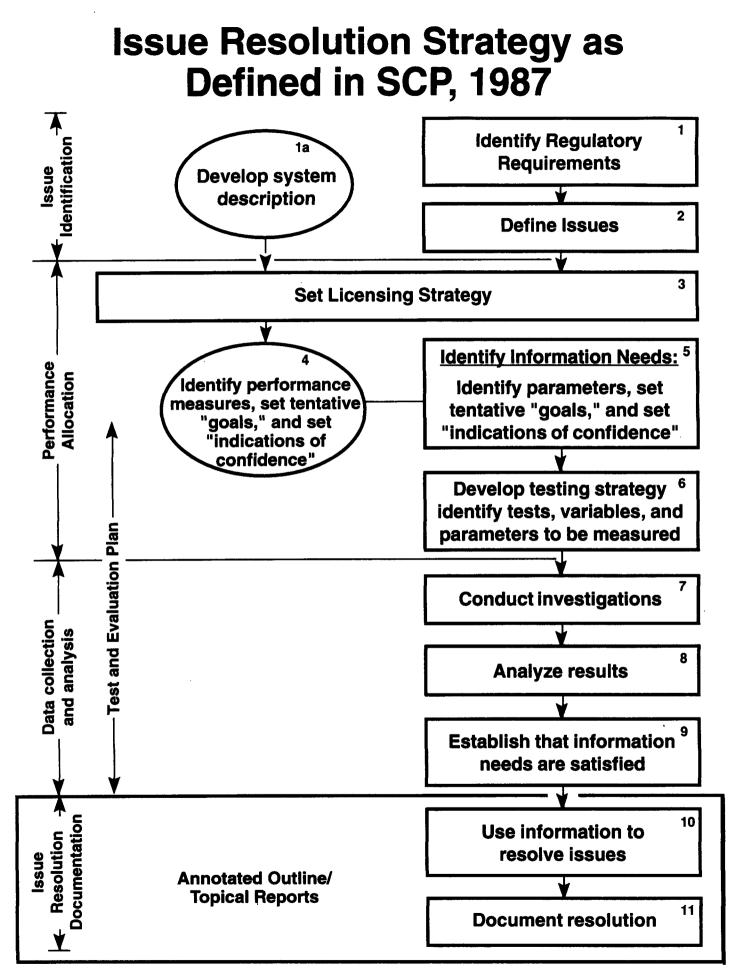
Evaluation Phase of Site Characterization



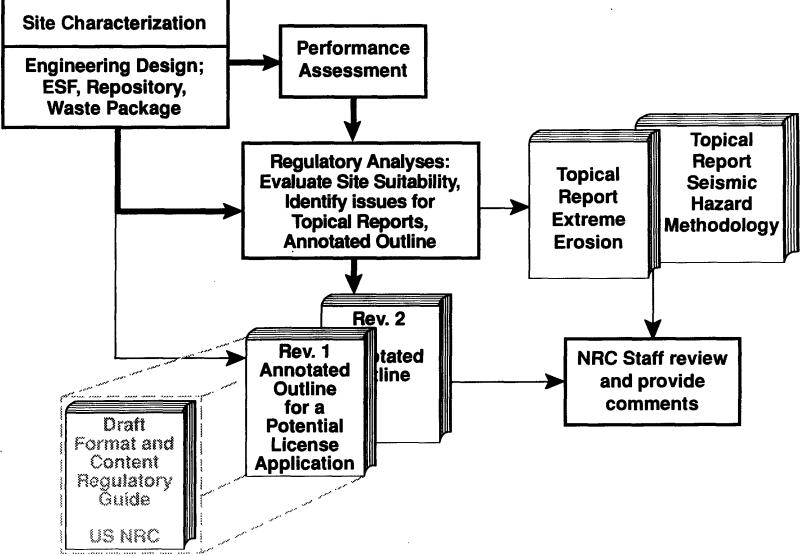
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Examples of Evaluation Phase Activities

- Peer Review of Plans for Characterization of the Unsaturated Zone
 - Test Prioritization Task
 - Calico Hills Risk-Benefit Analysis
 - Peer Review and National Academy Review of Szymanski Hypothesis
 - Exploratory Shaft Facility Alternative Study
 - Early Site Suitability Evaluation
 - Integrated Test Evaluation
 - Future Topical Reports/Annotated Outline



Current Issue Resolution Process



4MSCP5Y10.125.NWTRB/4-21/22-93

Overview of DOE Process

- Issue resolution strategy presented in SCP
- Program must be executed in a controlled environment
 - Quality Assurance
 - Configuration Management
 - Change Control
- Management process in place to plan, implement and evaluate site characterization testing program
- Numerous internal and external audits and reviews
 demonstrate the process works