

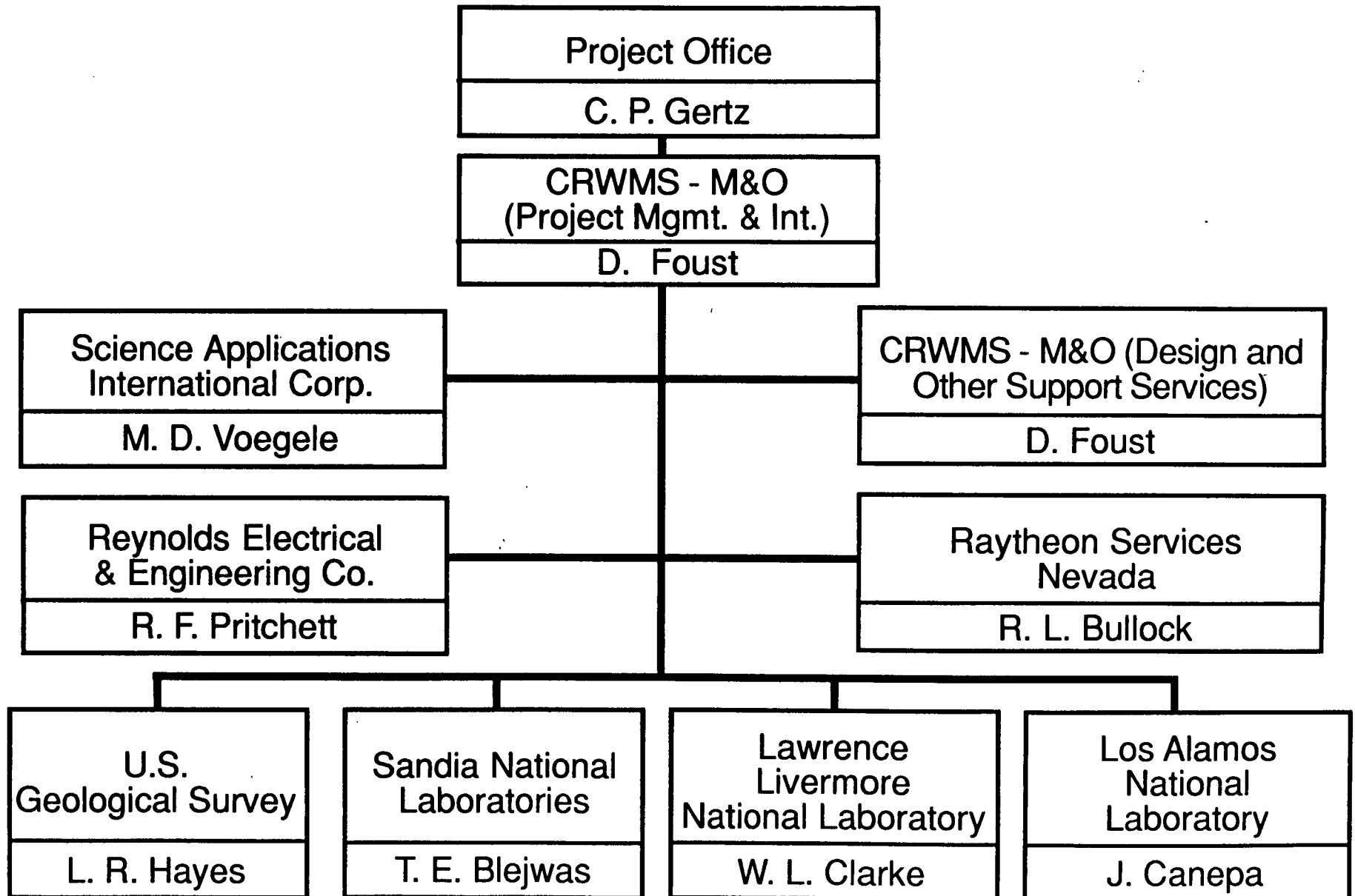
**U. S. Department of Energy  
Office of Civilian Radioactive Waste Management**

## **Overview of Nevada Site Activities**

**Jean L. Younker  
Manager of Systems  
M&O/TRW  
Las Vegas, NV**

July 7, 1992

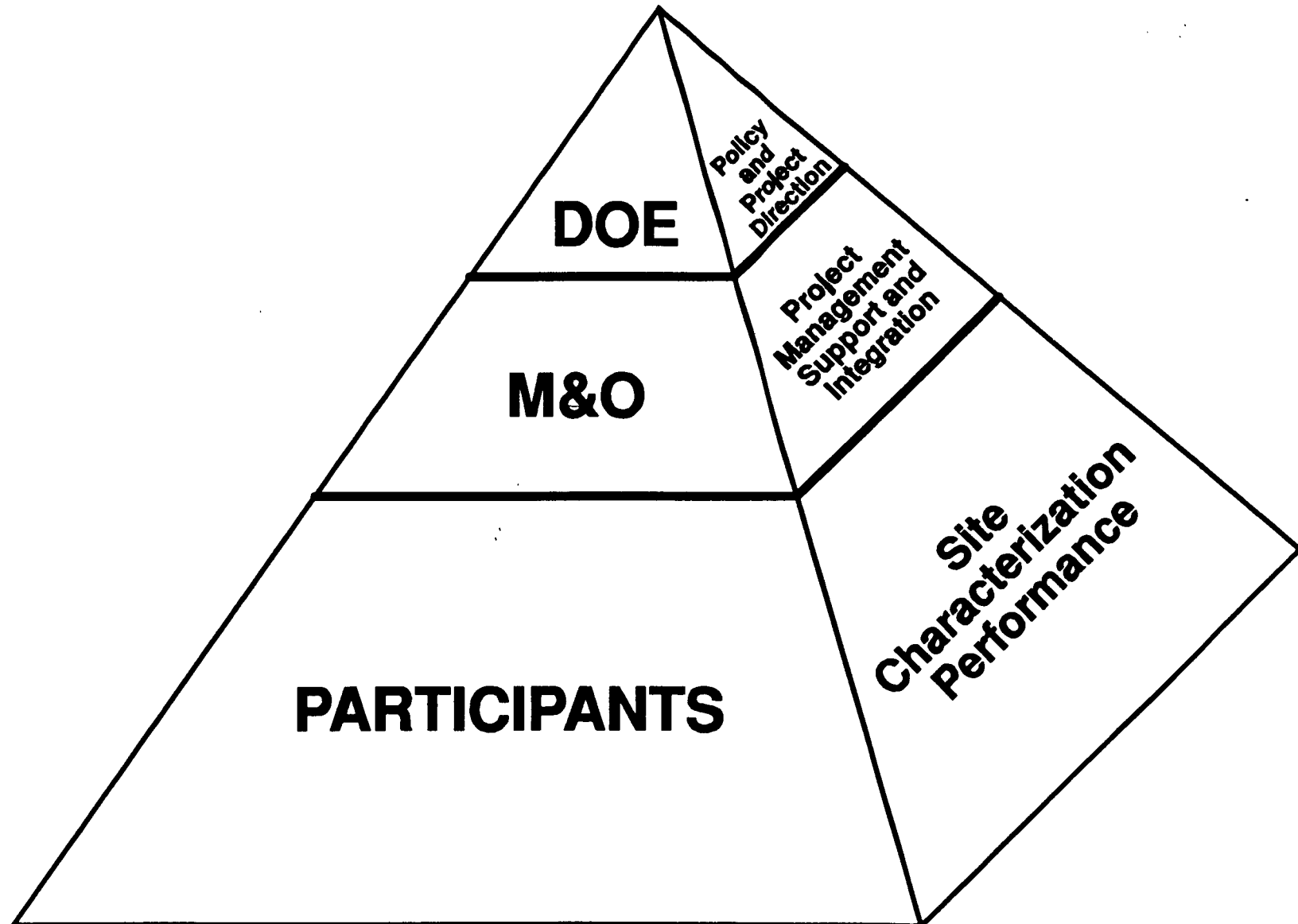
# Yucca Mountain Site Characterization Project



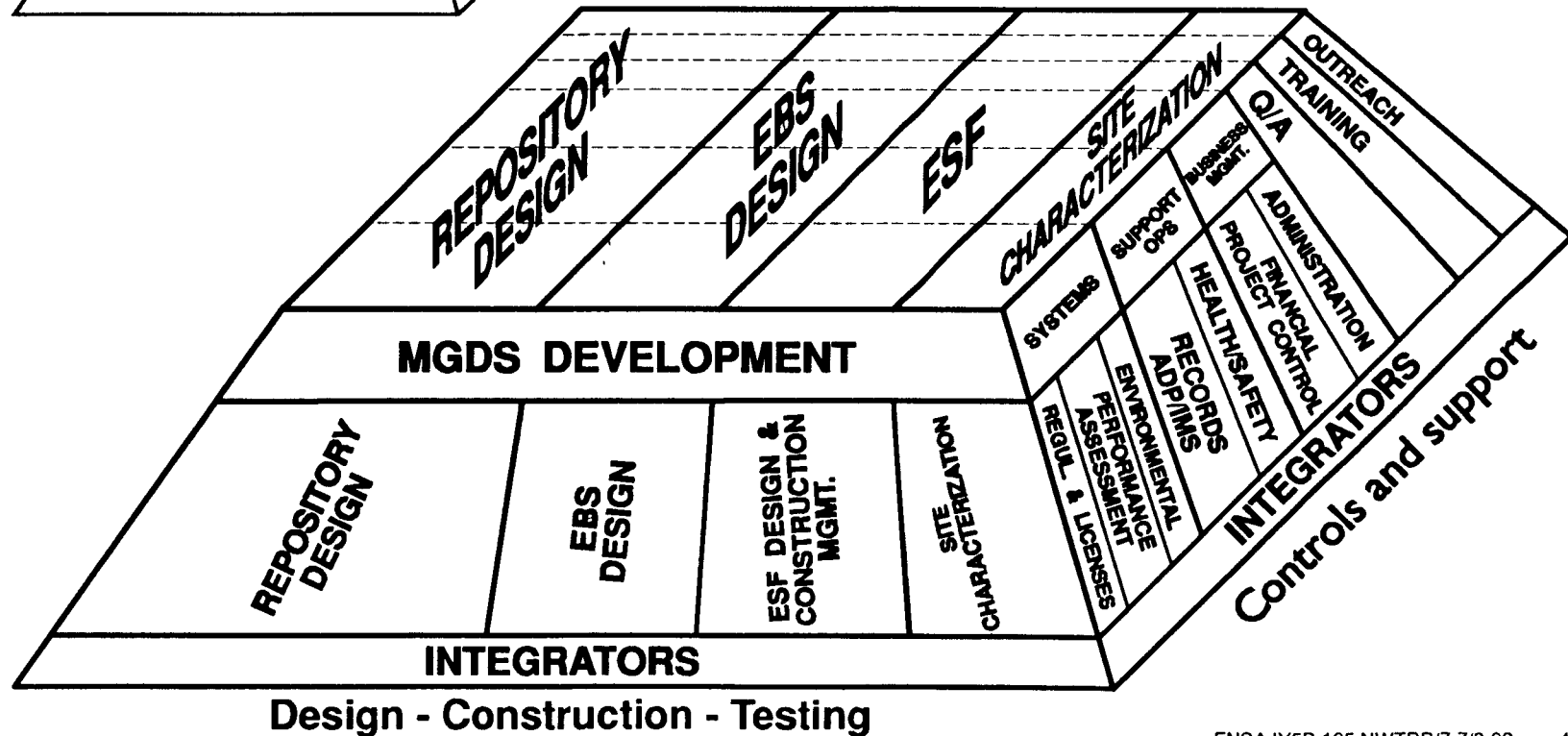
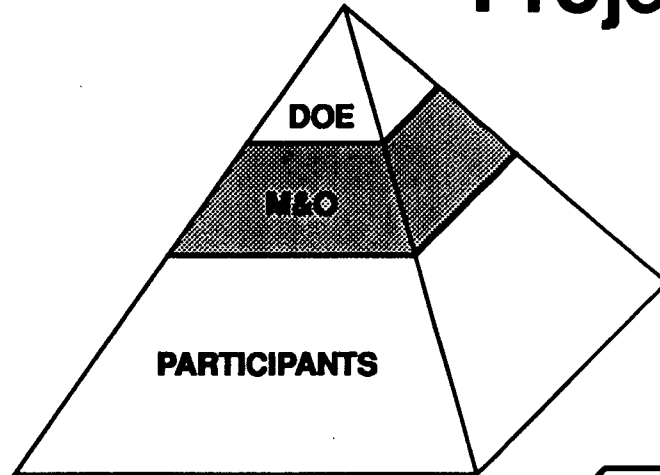
# **What is the Role of the M&O in Supporting the Yucca Mountain Site Characterization Project Office?**

- **Support YMPO's activities to evaluate site suitability and, if suitable, develop a license application for the MGDS**
- **Provide management and integration support to YMPO**
- **Provide a range of critical expertise in support of YMPO**
- **Develop Title II ESF design**
- **Develop repository and waste package designs**

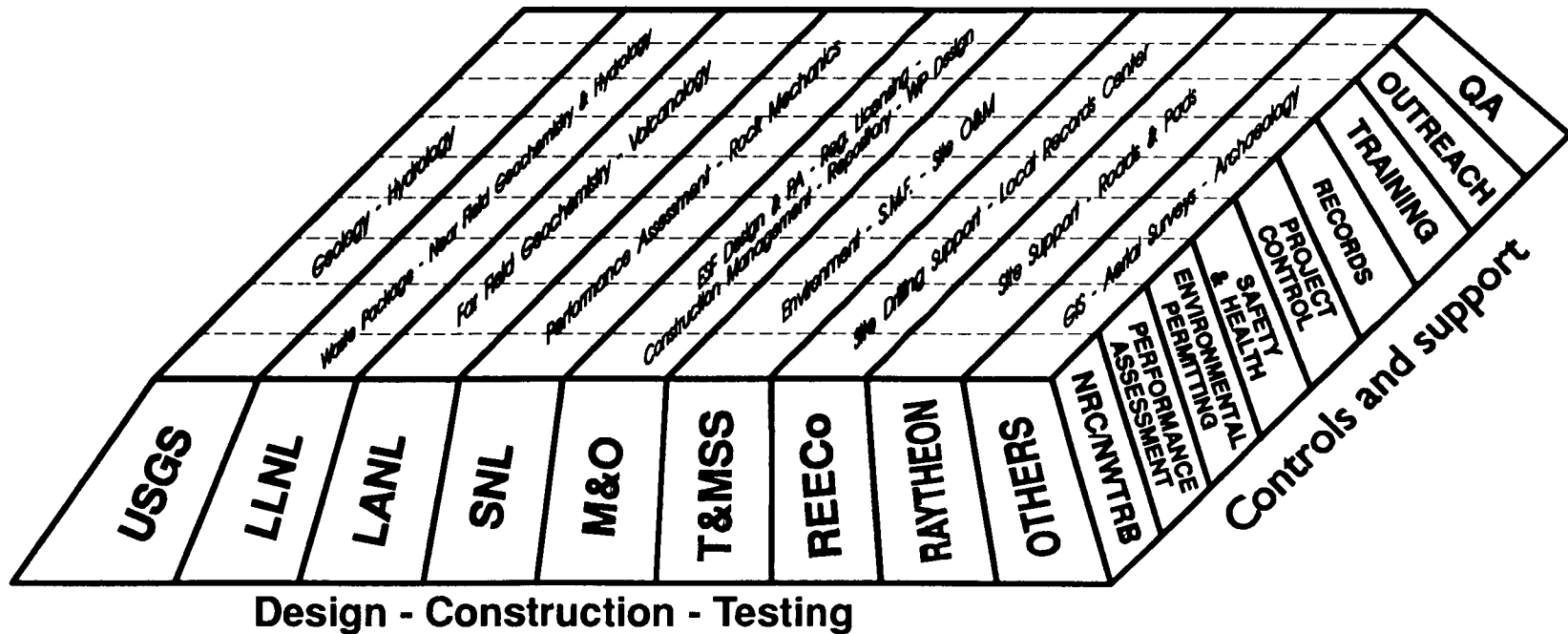
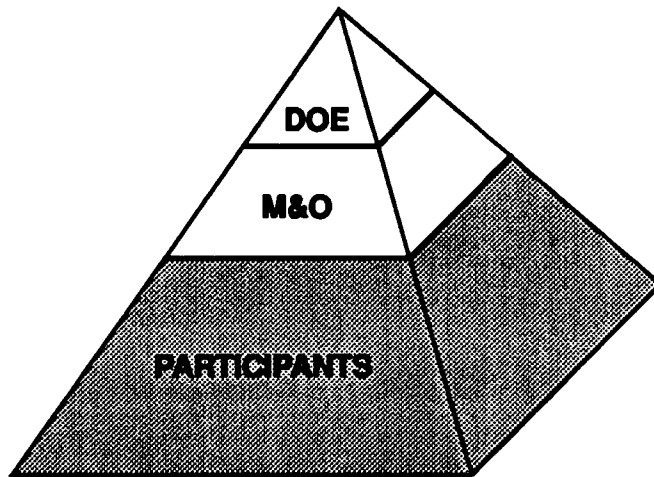
# Site Characterization Project Management and Integration Concept



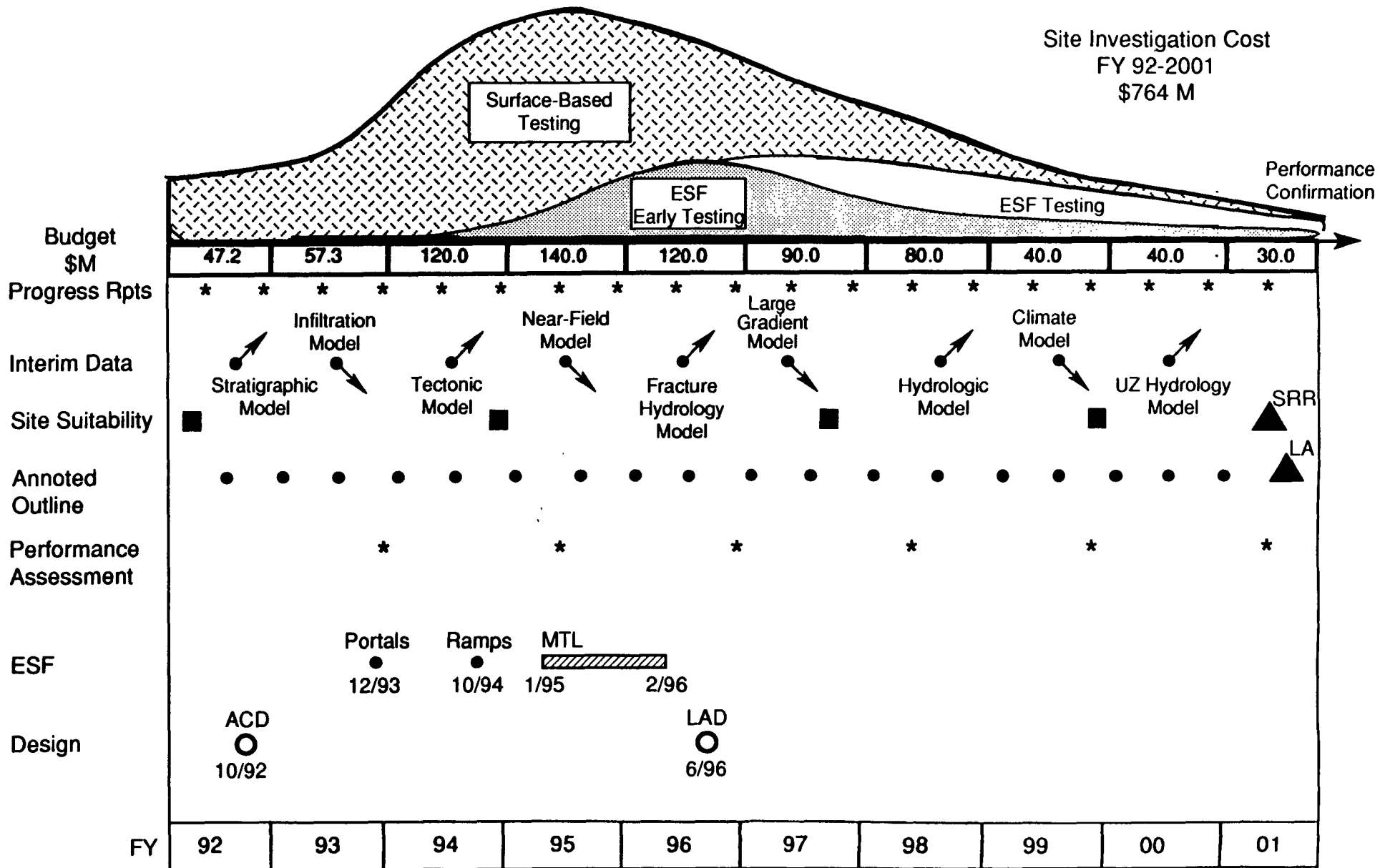
# M&O's Role In Site Characterization Project Integration



# Participant Roles in Yucca Mountain Site Characterization Project



# Integration of Site Characterization with Program Elements



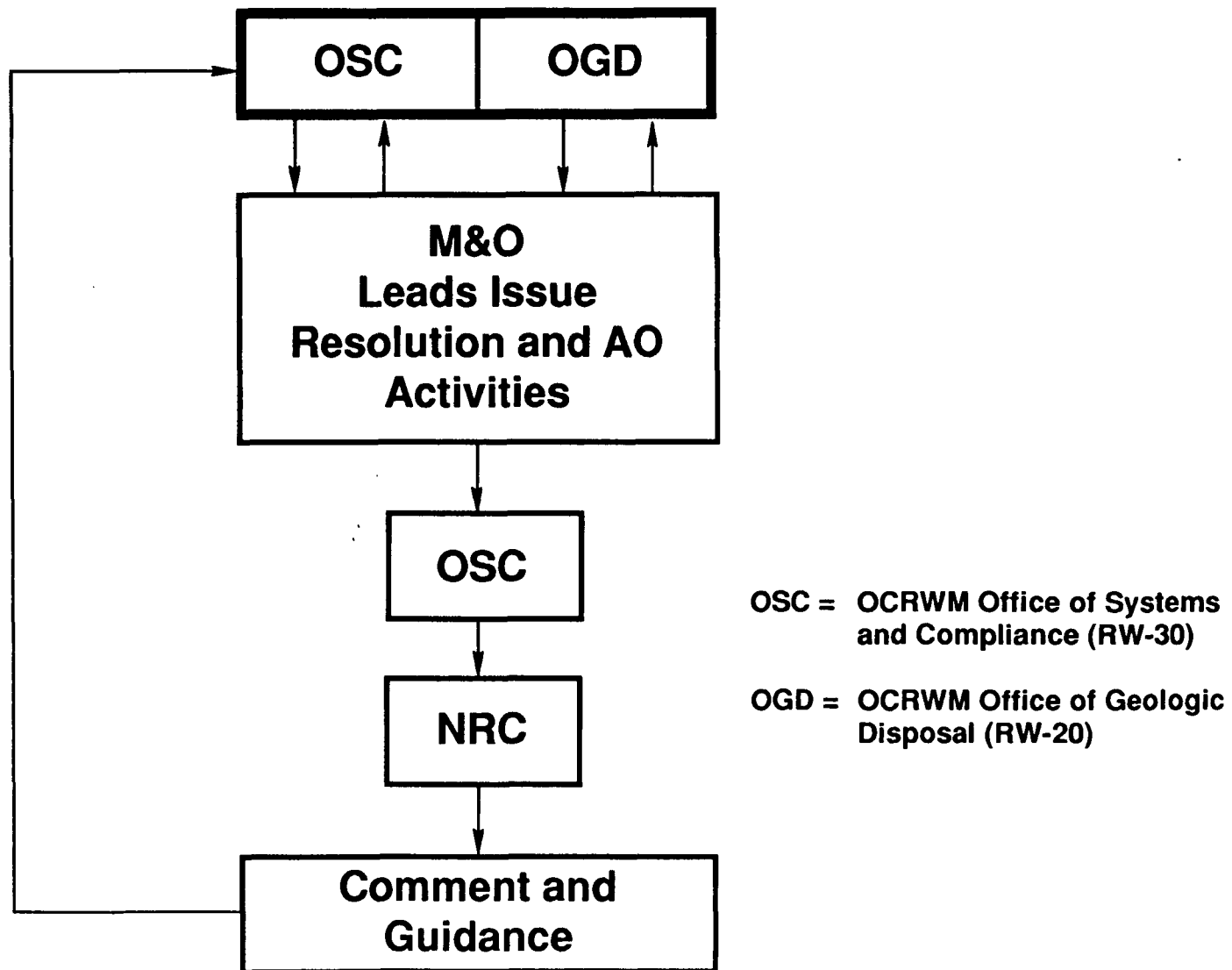
# **M&O Role in Issue Resolution**

## **What is Issue Resolution?**

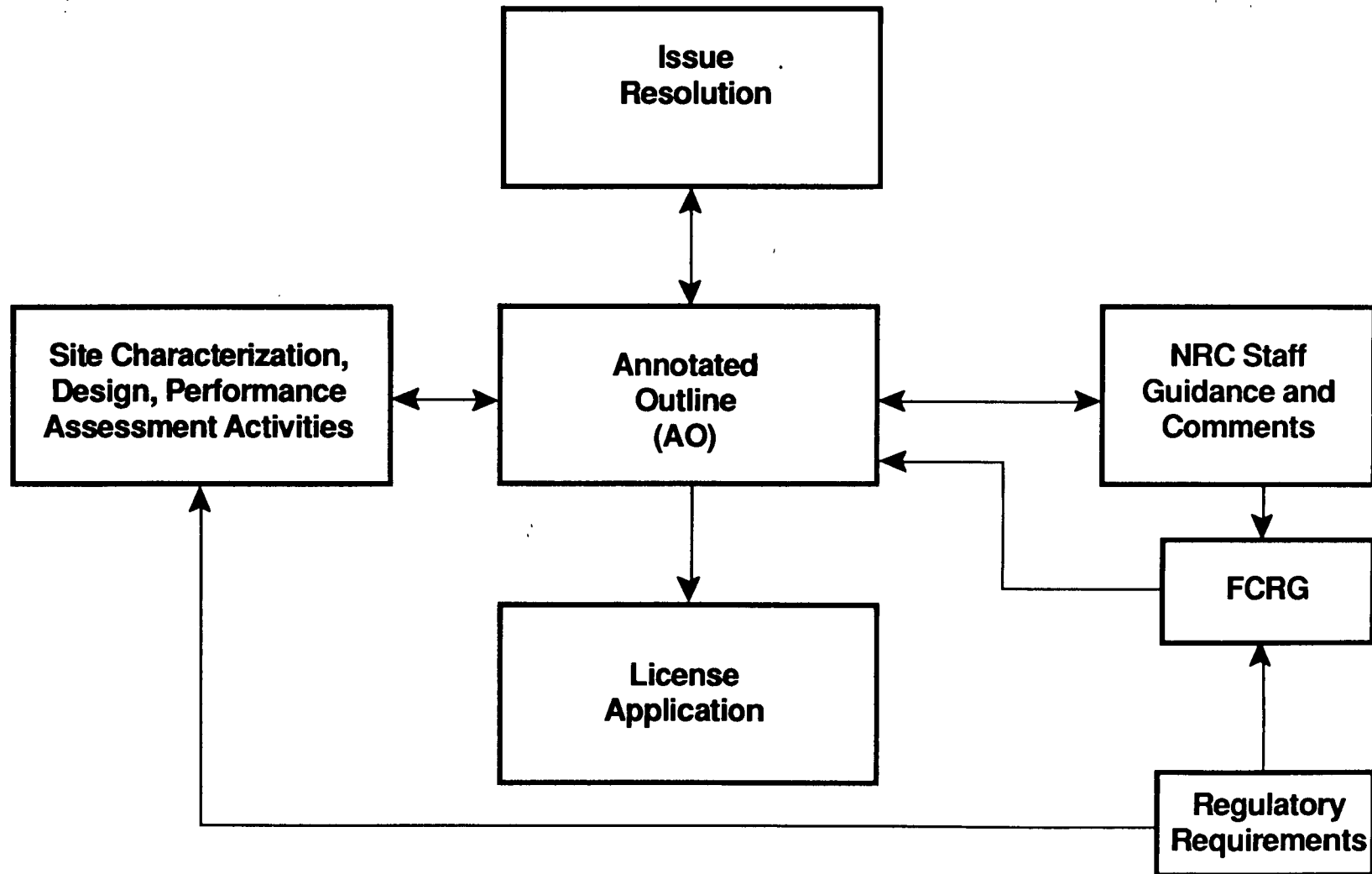
**Issue resolution is the process of interaction or negotiation between DOE and NRC regarding technical or programmatic concerns to allow the licensing process to move forward for the MGDS**



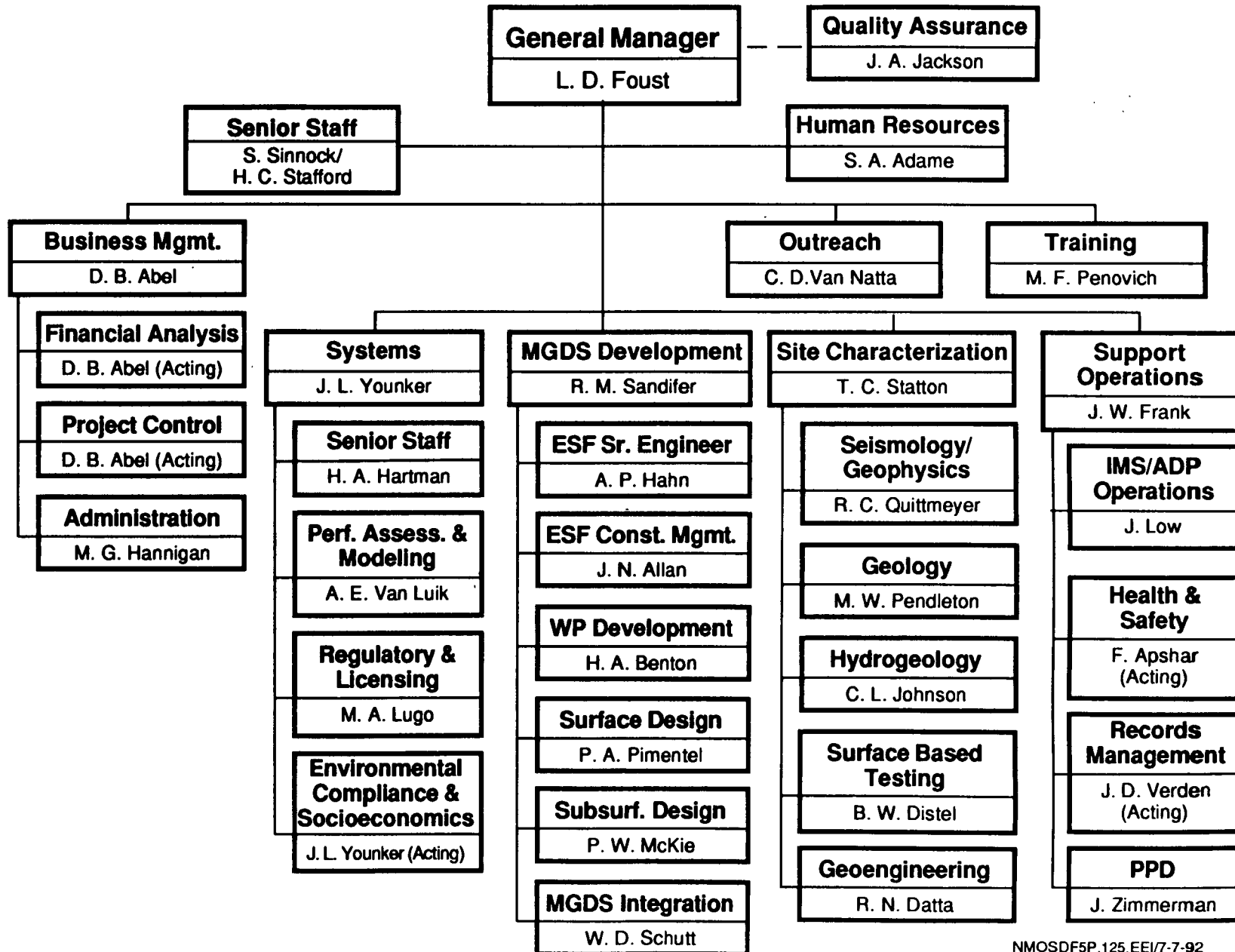
# Issue Resolution and Annotated Outline Organization for the MGDS



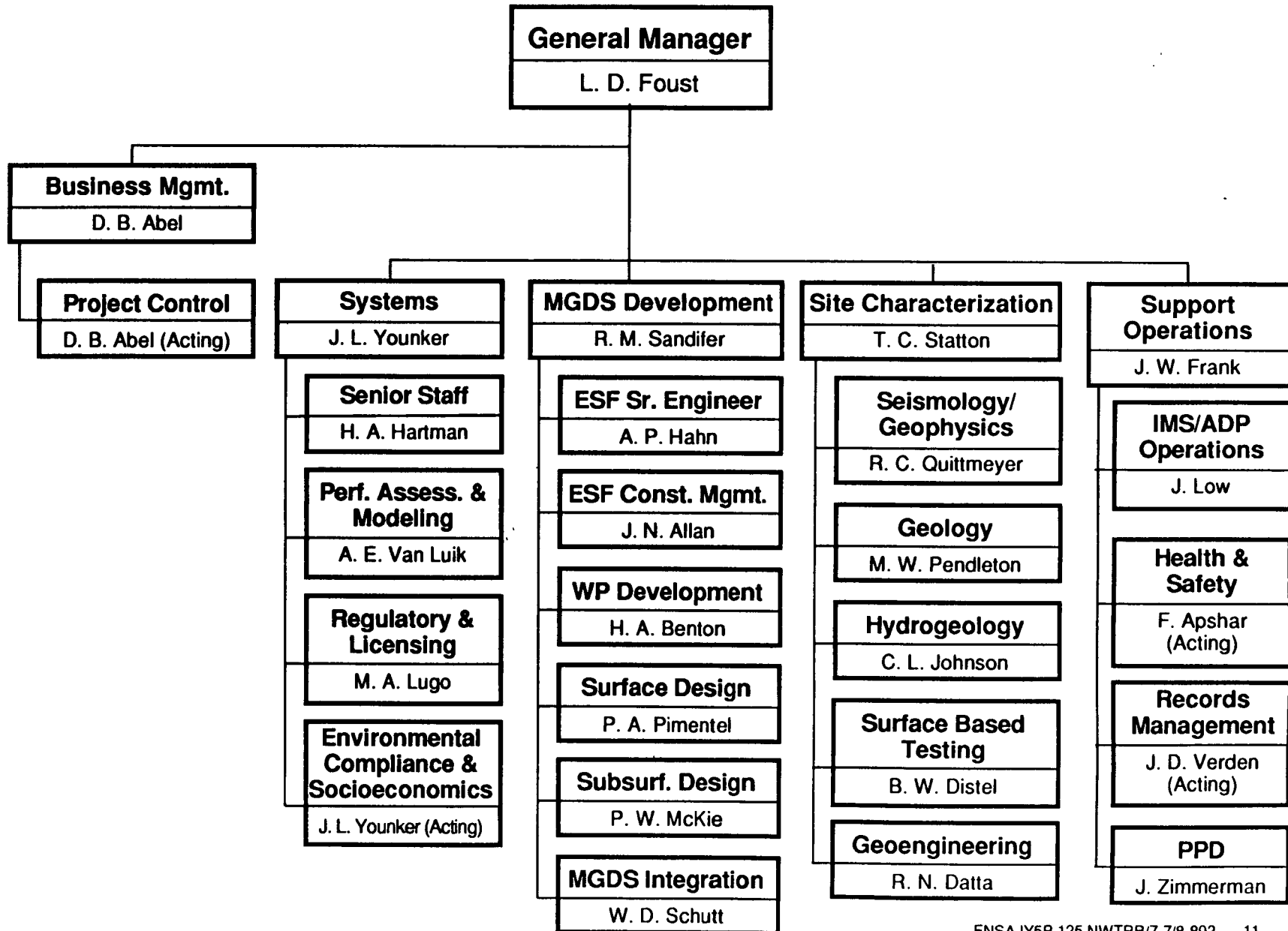
# Annotated Outline Initiative



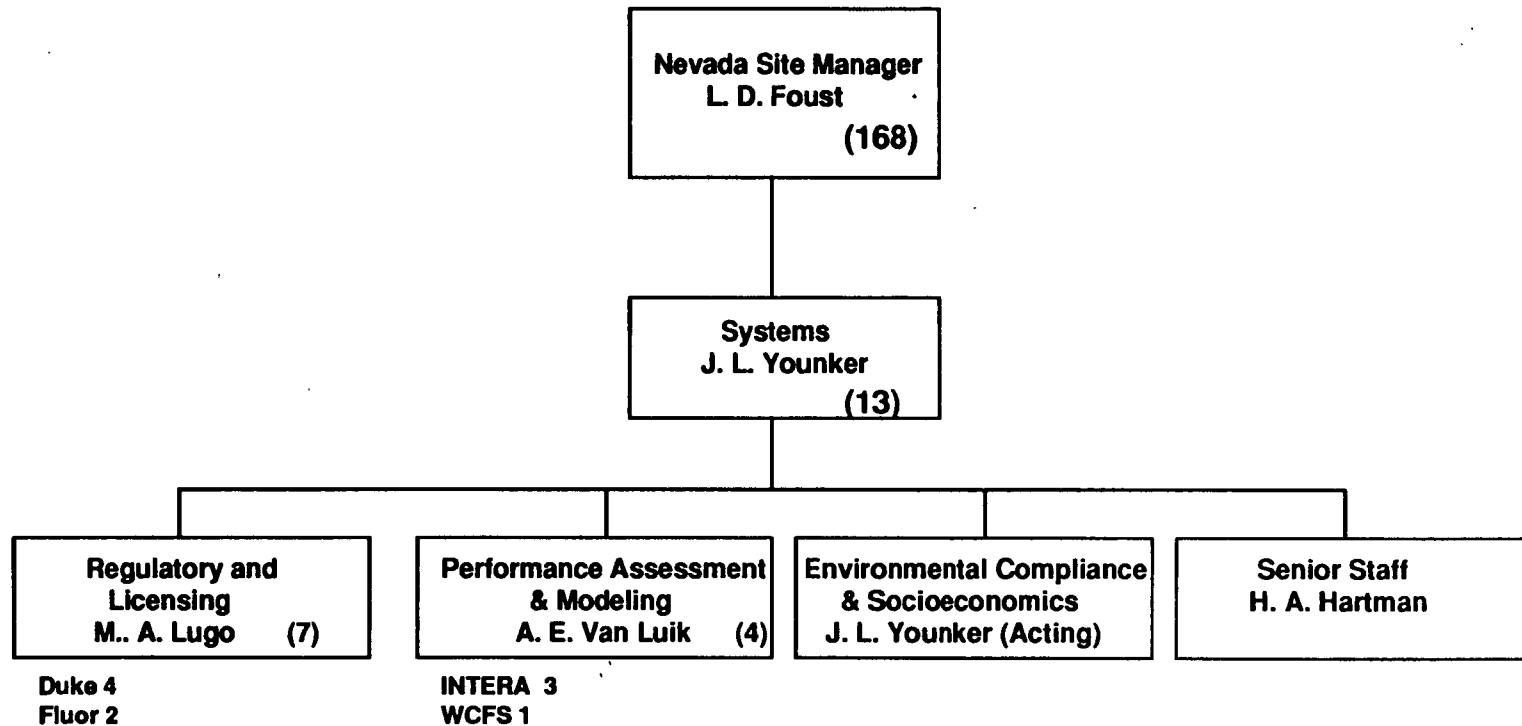
# Nevada Site M&O Organization



# Nevada Site M&O Organization



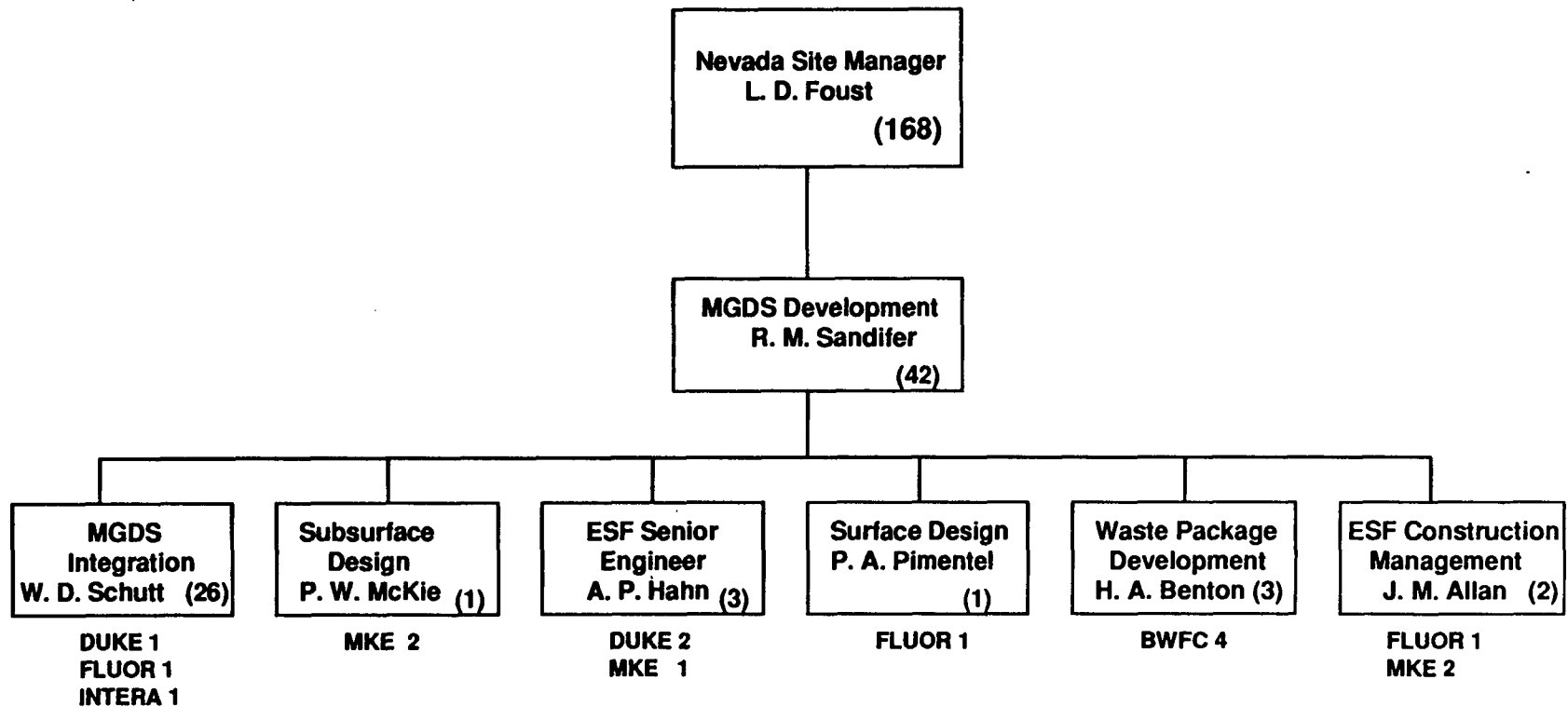
# Systems



- **Regulatory and Licensing Function**
  - Coordinate YMPO interactions with regulatory and oversight groups
  - Prepare Annotated Outline for potential MGDS License Application
  - Support Issue Resolution initiative
  - Prepare Semi-annual Site Characterization Program Reports

- **Performance Assessment Functions**
  - Technical Direction and Coordination
  - Waste Package Performance Assessment
  - Total System Performance Assessment
  - Support Regulatory and Licensing activities

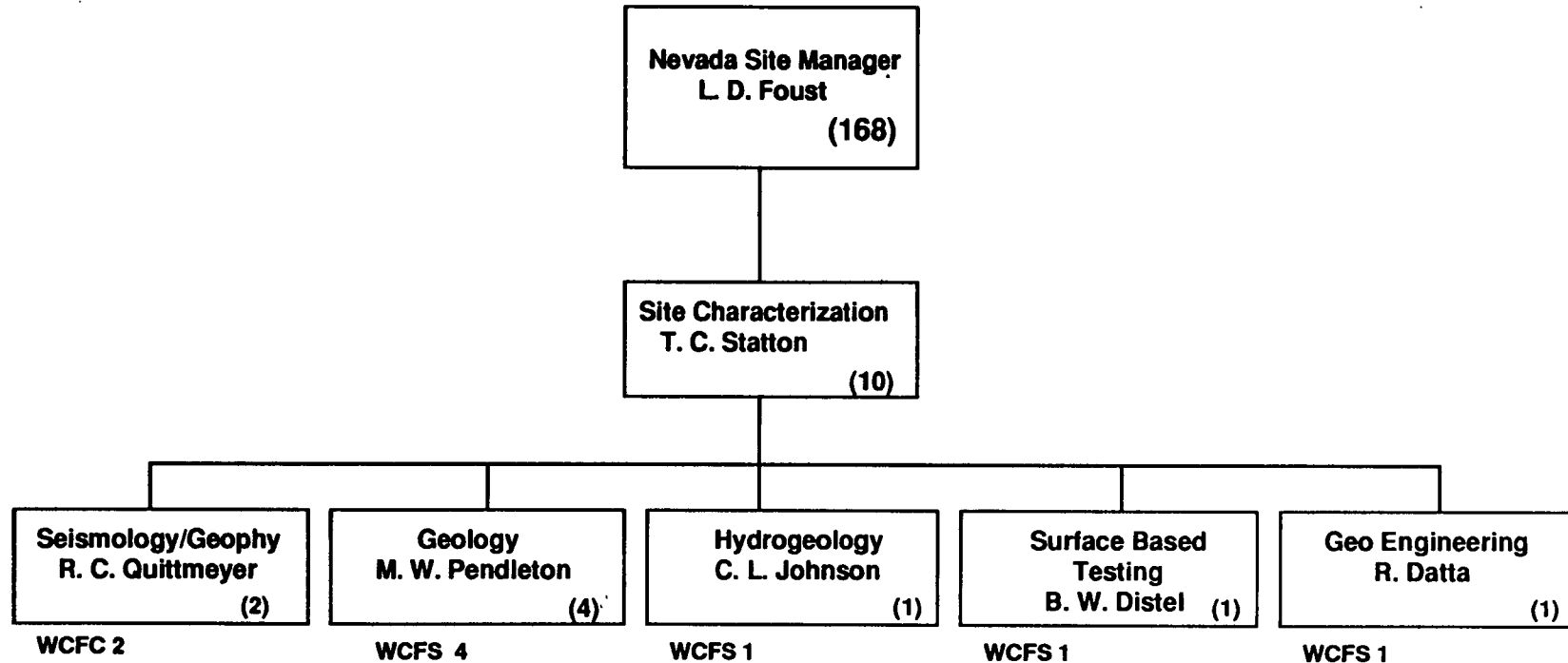
# MGDS Development



- **Functions**

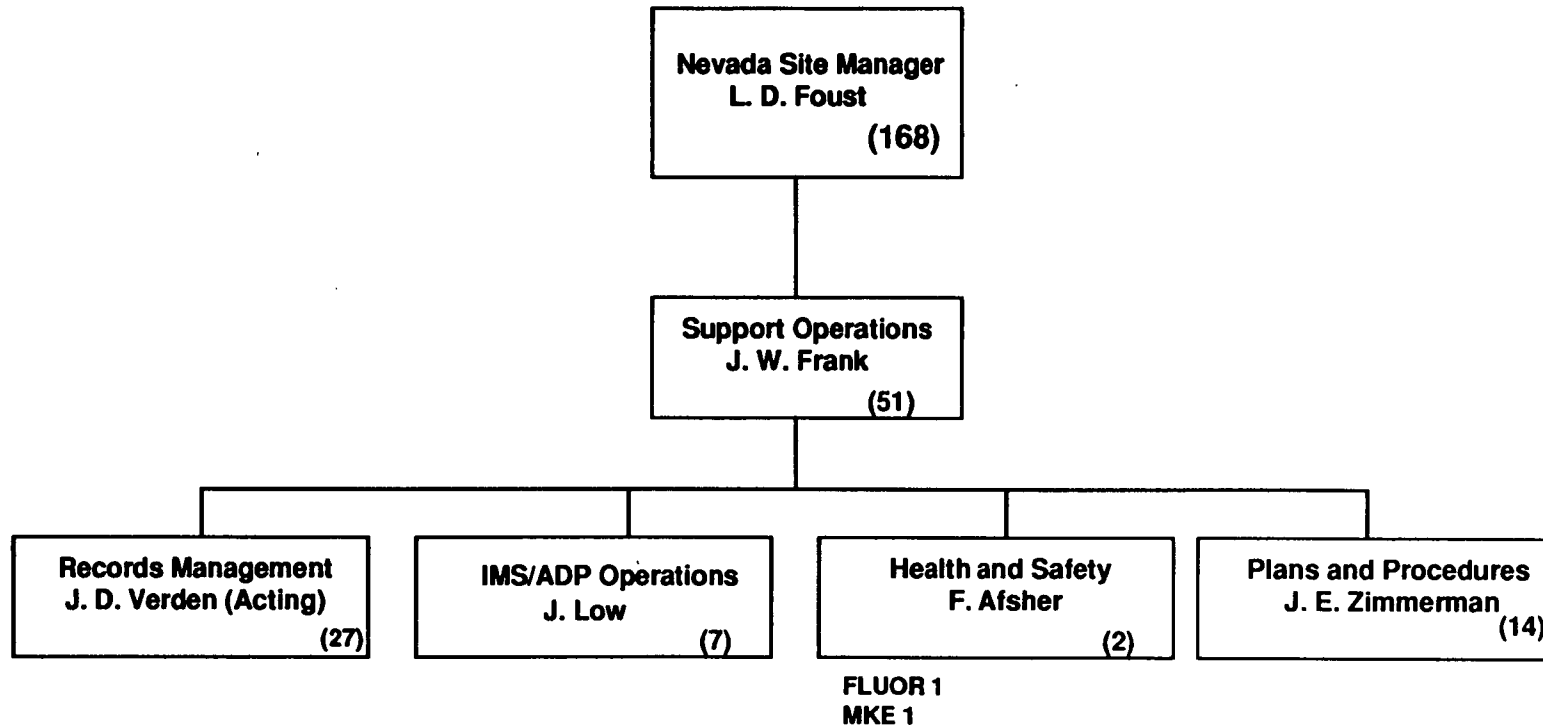
- Exploratory Studies Facility (ESF) Design
- Repository and Waste Package Design
- ESF Construction Management
- Systems Engineering and Integration
- Configuration Management and Change Control Board

# Site Characterization



- **Functions of Site Characterization**
  - Test Evaluation and Interpretation
  - Integration of Site Investigations/Test Coordination/  
Test Interferences
  - Study Plan Coordination

# Support Operations

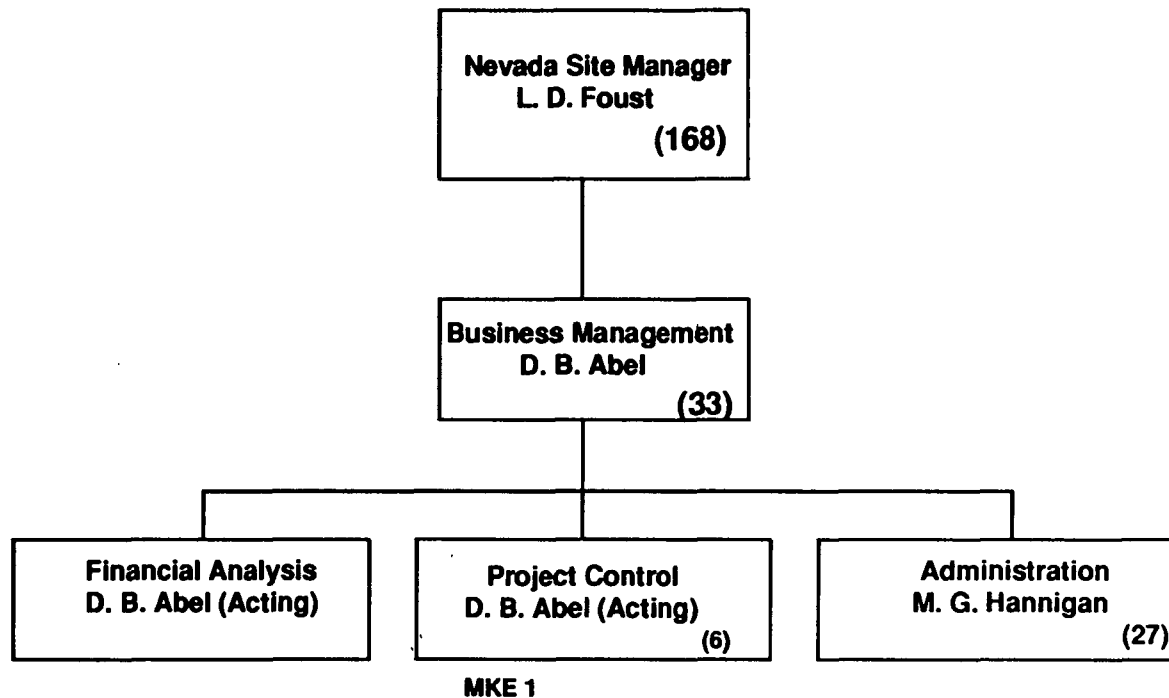


- **Functions**

- **Records Management**
- **Information Resource Management**
- **Safety and Health**
- **Plans and Procedures - Production and Review**



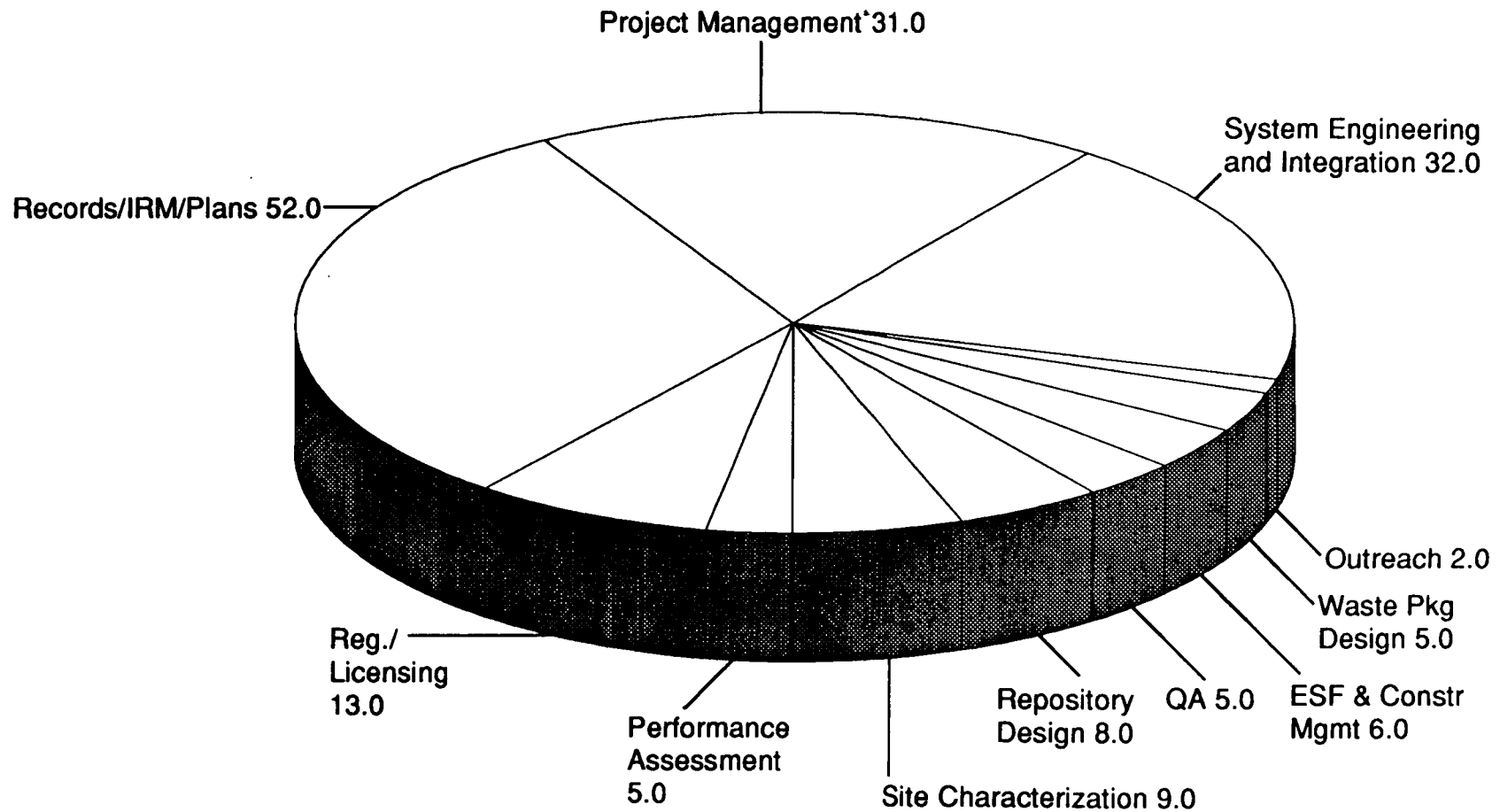
# Business Management



- **Functions**

- Operate Project-wide Planning and Control System
- Coordinate budget submittals to Internal Review Board
- Facilities Planning
- Analyze alternative funding scenarios
- Provide support to YMPO for audits

# M&O Staffing for Nevada Site as of 7/3/92 by Major Activities



**Total 168 Heads**

# M&O Transition

## Defined Transitions - 1992

- **Management & Integration** OCT '91
- **Configuration Management** APR '92
- **Regulatory & Licensing** APR '92
- **Central Records Facility** AUG '92
- **Project Control and PACS Operation** AUG '92
- **ESF Design, Title II** OCT '92
- **Performance Assessment** OCT '92
- **Technical Data Base Management** OCT '92
- **Transportation** OCT '92

# M&O Transition

## Transitions Subject to Review

- **Environmental Compliance** **JUN '93**
  - **Monitoring & Mitigation Planning**
  - **Reclamation Planning**
- **YMP Training** **JUN '93**
- **Land Access for Site Characterization** **OCT '93**
- **Outreach** **OCT '93**
  - **Institutional Support**
  - **Socioeconomic**

# Systems

## Significant Accomplishments, FY '92

- **Transitioned regulatory and licensing functions in 4/92**
- **Managing Integrated Test Evaluation effort**
- **Prepared 6th Semi-Annual Site Characterization Progress Report**
- **Supported development of annotated outline for a potential MGDS license application**
- **Coordinated issue resolution activities for erosion topical report and calcite-silica issue**
- **Analyzed impacts of potential changes to EPA standard**
- **Coordinated Flow and Transport Modeling Workshop**

# **Systems**

## **Plans, FY '93 - Regulatory and Licensing**

- **Prepare 2 Semi-Annual Site Characterization Progress Reports**
- **Prepare 2 revisions to the Annotated Outline for a potential license application**
- **Coordinate meetings with regulatory and oversight groups**
- **Continue support for issue resolution process and topical report preparation**

# Systems

## Plans, FY '93 - Performance Assessment

- **Assume Technical Data Base Management Role**
- **Complete a total system performance assessment iteration**
- **Develop waste package models and codes**
- **Complete review of performance assessment tools**

# **MGDS Development**

## **Significant Accomplishments, FY '92**

- **Planned and managed Mission 2001 exercise**
- **Finalized transition plan for ESF Title II responsibilities**
- **Revised ESF Design and Surface Based Test Facility Requirements Documents**
- **Prepared Readiness Plans for**
  - **ESF Title II**
  - **Repository Advanced Conceptual Design**
  - **Waste Package Advanced Conceptual Design**
  - **ESF Construction Management**
- **Preparing Waste Package Implementation Plan**



# **MGDS Development**

## **Plans, FY'93**

- **Begin trade studies for Repository and Engineered Barrier System/Waste Package Advanced Conceptual Designs**
- **Prepare Project-level requirements documents to support ESF, Repository and Engineered Barrier System/Waste Package Designs**
- **Revise interface controls on basis of trade study results**
- **Prepare supporting material to update Project baselines**
- **Conduct studies to identify Q-List items**

# **Site Characterization**

## **Significant Accomplishments, FY'92**

- **Transitions completed for study plan coordination and site characterization support**
- **Reviewed and reassessed scope of planned site activities for FY92-2001**
- **Supported interactions with regulatory and technical oversight groups**
- **Provided technical expertise to**
  - **Sample Overview Committee**
  - **Technical Integration Group**
  - **Hydrology Integration Task Group**
  - **Technical Data Base Working Group**
  - **Issue Resolution Working Groups**

# Site Characterization

## Plans, FY'93

- **Surface Based Testing Coordination**
- **Technical Assessment of ESF seismic design**
- **Support resolution of calcite-silica and erosion issues**
- **Establish field support group to assist YMPO Field Test Coordinator**
- **Establish formal coordination with performance assessment**
- **Qualification of existing data**

# **Support Operations**

## **Significant Accomplishments, FY'92**

- **Consolidated Local Records Centers**
- **Transitioned YMPO Plans and Procedures support**
- **Completed transition plan for software development and maintenance**
- **Transitioned Project Microfilm Center**
- **Transitioned responsibility for YMPO weekly, monthly and quarterly report preparation**
- **Transition Central Records Facility**

# **Support Operations**

## **Plans, FY'93**

- **Strengthen software development and maintenance function**
- **Consolidate Central Records Facility, Project Microfilm Center, and Local Records Center**
- **Transition and combine technical libraries**
- **Implement electronic document creation and distribution system**