

**U.S. DEPARTMENT OF ENERGY  
OFFICE OF CIVILIAN RADIOACTIVE WASTE MANAGEMENT**

**NUCLEAR WASTE TECHNICAL REVIEW BOARD  
ENVIRONMENT AND PUBLIC HEALTH PANEL MEETING**

**SUBJECT: INTEGRATION OF ENVIRONMENTAL  
PROGRAM WITH SITE AND DESIGN  
PROGRAMS**

**PRESENTER: DR. J. RUSSELL DYER**

**PRESENTER'S TITLE  
AND ORGANIZATION: DEPUTY PROJECT MANAGER  
YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT  
LAS VEGAS, NEVADA**

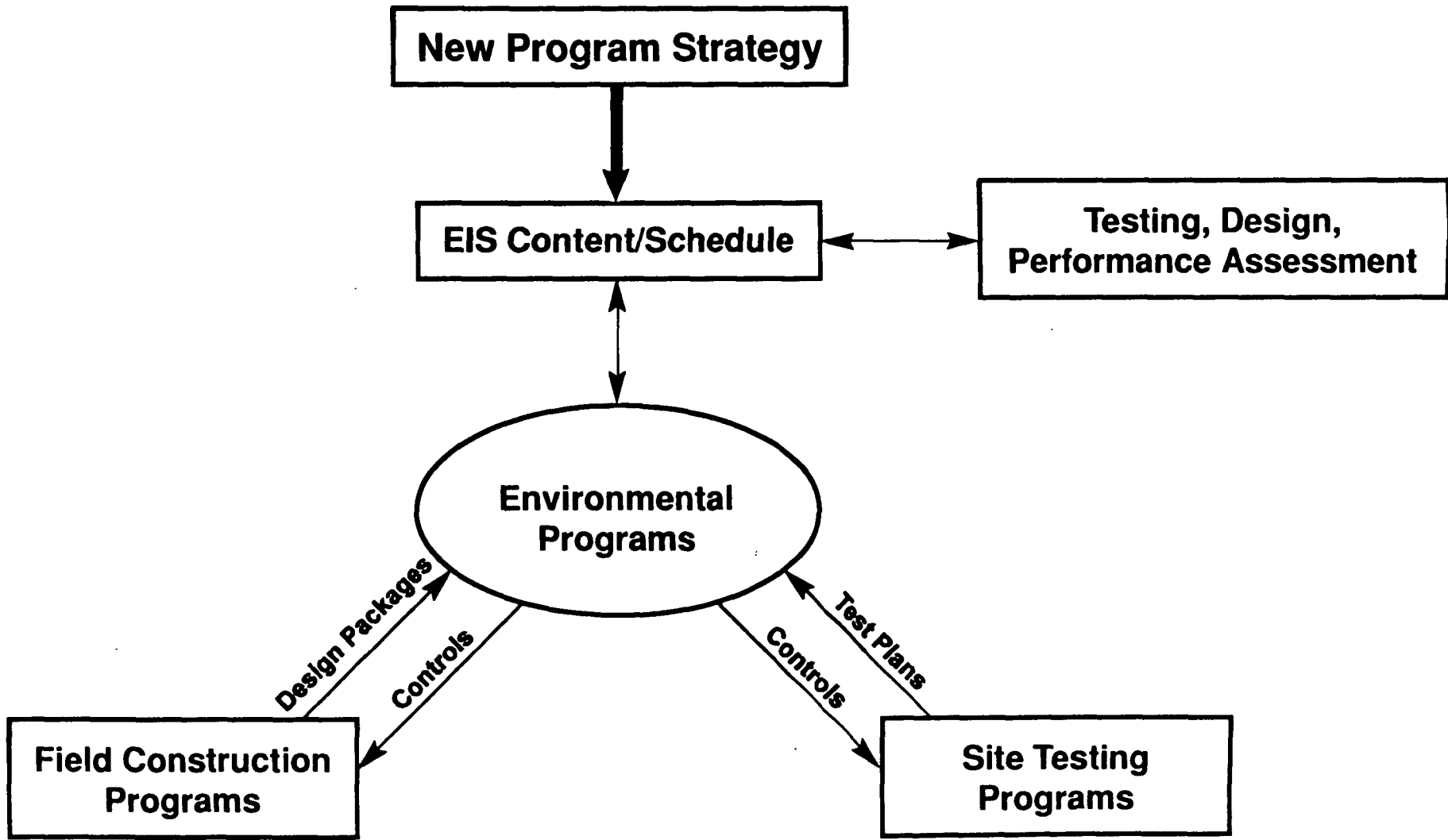
**PRESENTER'S  
TELEPHONE NUMBER: (702) 794-7586**

**LAS VEGAS, NEVADA  
MARCH 22, 1994**

# **Integration of the Environmental Program**

- **Environmental program has major interface to top-level program strategy**
  - **EIS content and schedule**
  - **Testing, design, and performance assessment**
- **Management authorization of field testing and construction activities requires environmental reviews, stipulations, and approvals**
- **Environmental monitoring provides basis for evaluation of potential environmental impacts**

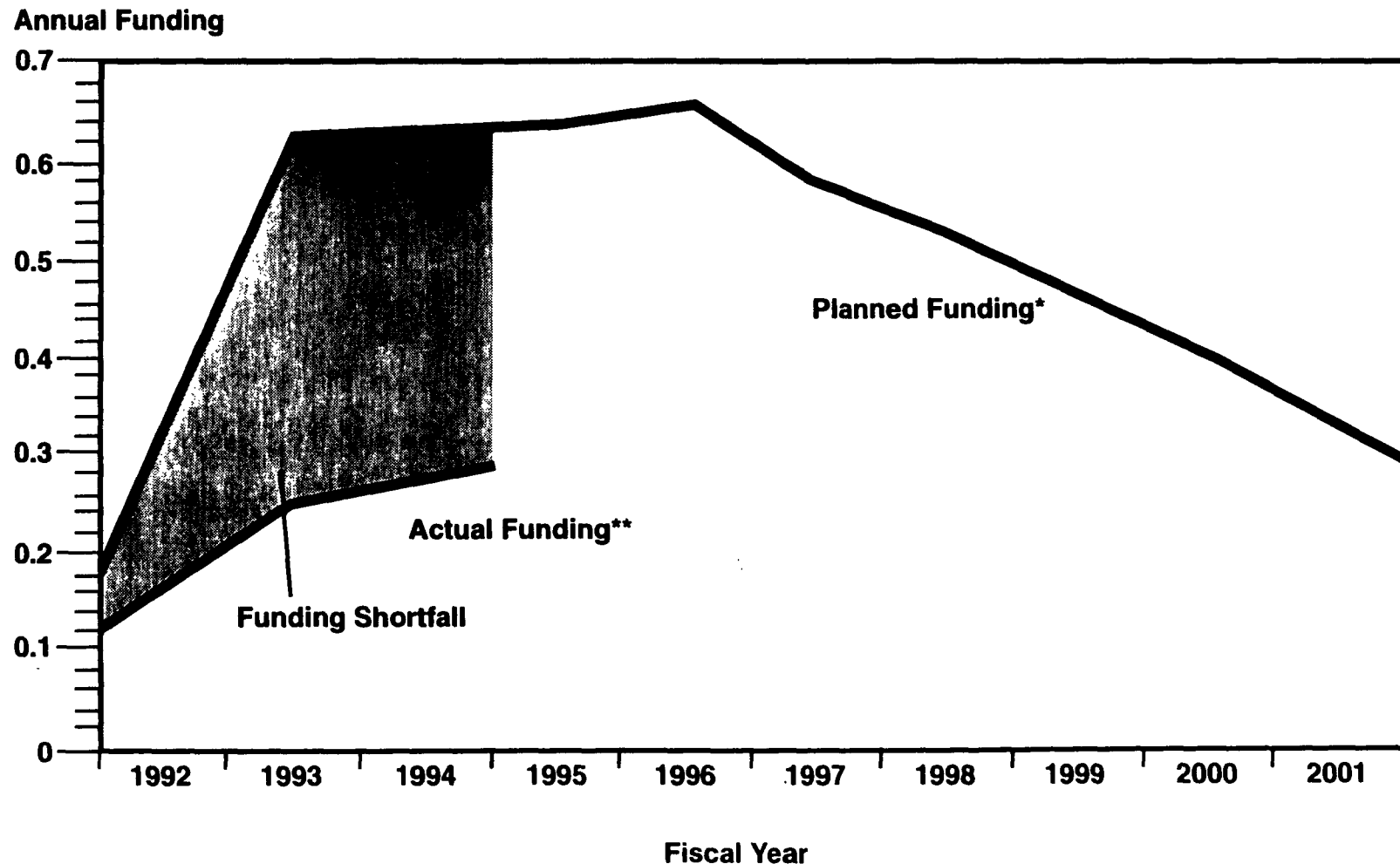
# Interfaces to Environmental Program





# **Overview of New Program Concept**

# Yucca Mountain Planned and Actual Site Characterization Funding (Year of Expenditure in Billions)



\* ESAAB - approved January 1992

\*\* Enacted Appropriations

# Scenarios for Mission Fulfillment

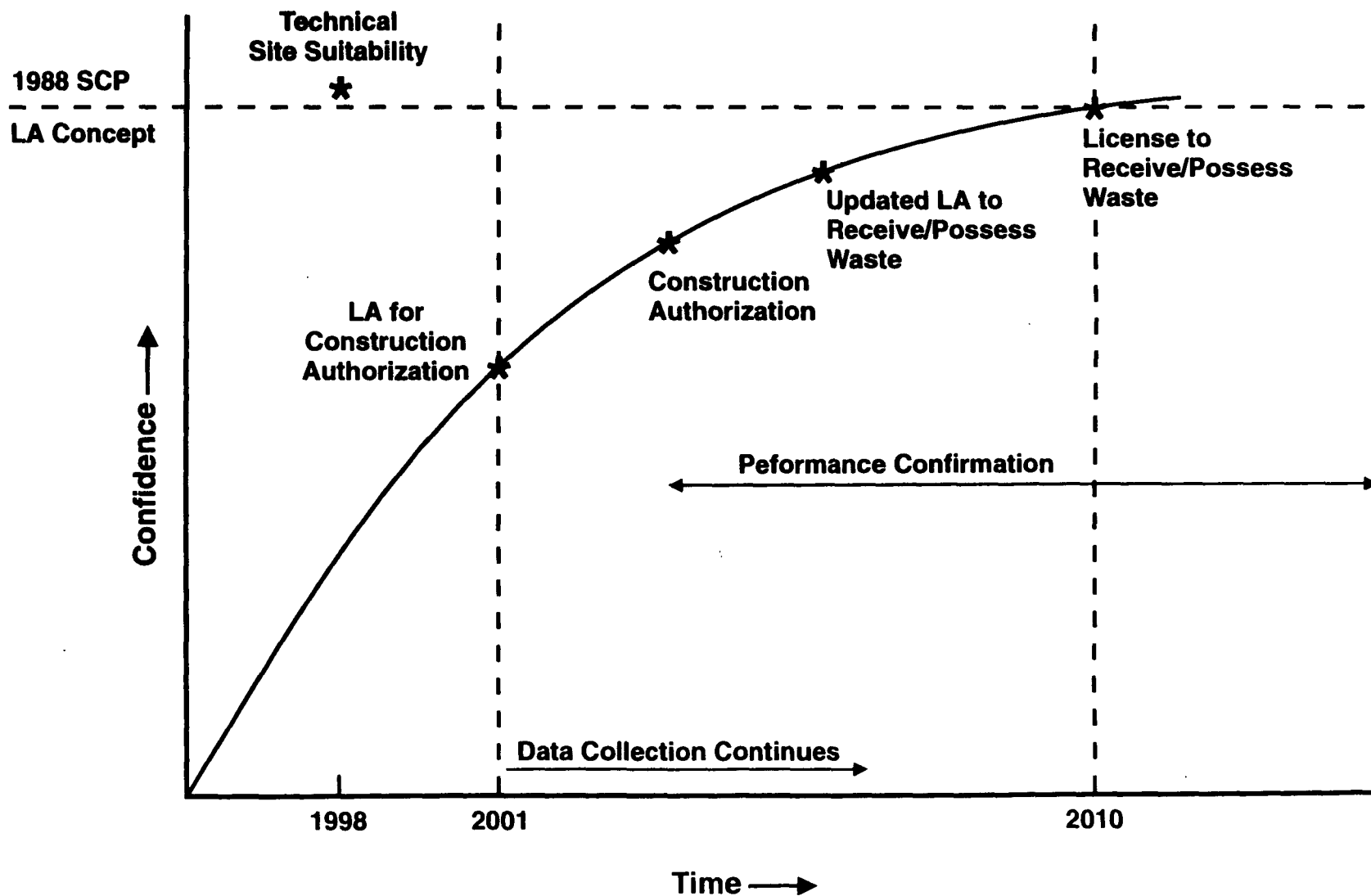
**Three scenarios have been evaluated. Their planning assumptions are:**

- A. Restructure Program for management efficiency to respond to existing situation (assumes availability of Special Account)**
  - Within existing legislative/regulatory framework**
  
- B. Restructure Program to respond to existing situation (assumes availability of Special Account)**
  - Consider changes to legislative/regulatory framework**
  
- C. Resource-constrained future (assumes flat funding)**
  - Within existing legislative/regulatory framework**

# **Strategic Goals for New Program Concept**

- **Determine if Yucca Mountain site is suitable**
- **Use phased approach to receive NRC approvals**
  - **Construction authorization**
  - **License to receive and possess waste**
  - **License amendment for permanent closure**
- **Obtain stakeholder/technical community and public acceptance**
- **Reduce cost, improve efficiency, and optimize schedules**

# Schematic of New Program Concept





# Planning Assumptions

- **DOE accepts higher-risk approach to License Application than embodied in SCP**
- **No changes to statutes/use inherent flexibility**
- **Special account allows increased funding in FY95 and out-years**
- **Waste acceptance achieved by delivery of MPCs to utilities starting in 1998**
- **License Application in 2001, if Yucca Mountain site is suitable**
- **Initiate waste receipt at Yucca Mountain in 2010**
- **Retrievability maintained for up to 100 years**

# COMPARATIVE SCHEDULES

