

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

**PRESENTATION TO
THE NUCLEAR WASTE TECHNICAL REVIEW BOARD**

SUBJECT: PARATRAC

PRESENTER: TIMOTHY G. BARBOUR

**PRESENTER'S TITLE
AND ORGANIZATION: REGULATORY COMPLIANCE MANAGER,
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PARATRAC INFORMATION MANAGEMENT

REGULATORY AND TECHNICAL INFORMATION

- **SYSTEMS, ISSUES, PERFORMANCE GOALS, DESIGN REQUIREMENTS, CHARACTERIZATION PARAMETERS, TESTS, SCENARIOS, ETC.**

SYSTEMATIC ORGANIZATION AND INTEGRATION OF INFORMATION

- **PARAMETER BASED**
- **SCP DERIVED (INCLUDING STUDY PLANS)**
- **CONSISTENT WITH TECHNICAL PLANNING BASIS (CONTROLLED DOCUMENTS)**

PARATRAC INFORMATION MANAGEMENT

(CONTINUED)

INFORMATION INCLUDES:

- **SYSTEM ELEMENTS, FUNCTIONS, AND PROCESSES**
- **PERFORMANCE MEASURES AND GOALS**
- **DESIGN AND PERFORMANCE INFORMATION NEEDS
(WHAT WE NEED TO KNOW ABOUT THE SITE
CHARACTERISTICS)**
- **CHARACTERIZATION PARAMETERS, SITE TESTS,
PROCEDURES, AND LOCATIONS**
- **ALTERNATE CONCEPTUAL MODELS OF SITE**
- **SITE SCENARIOS (SYSTEM CHANGES, IMPACTS)**

ALL OF THE ABOVE ARE RELATED IN PARATRAC

- **PROVIDES INTERFACE CONTROL**
- **MANY VALUABLE "SORTS"**

USES OF PARATRAC

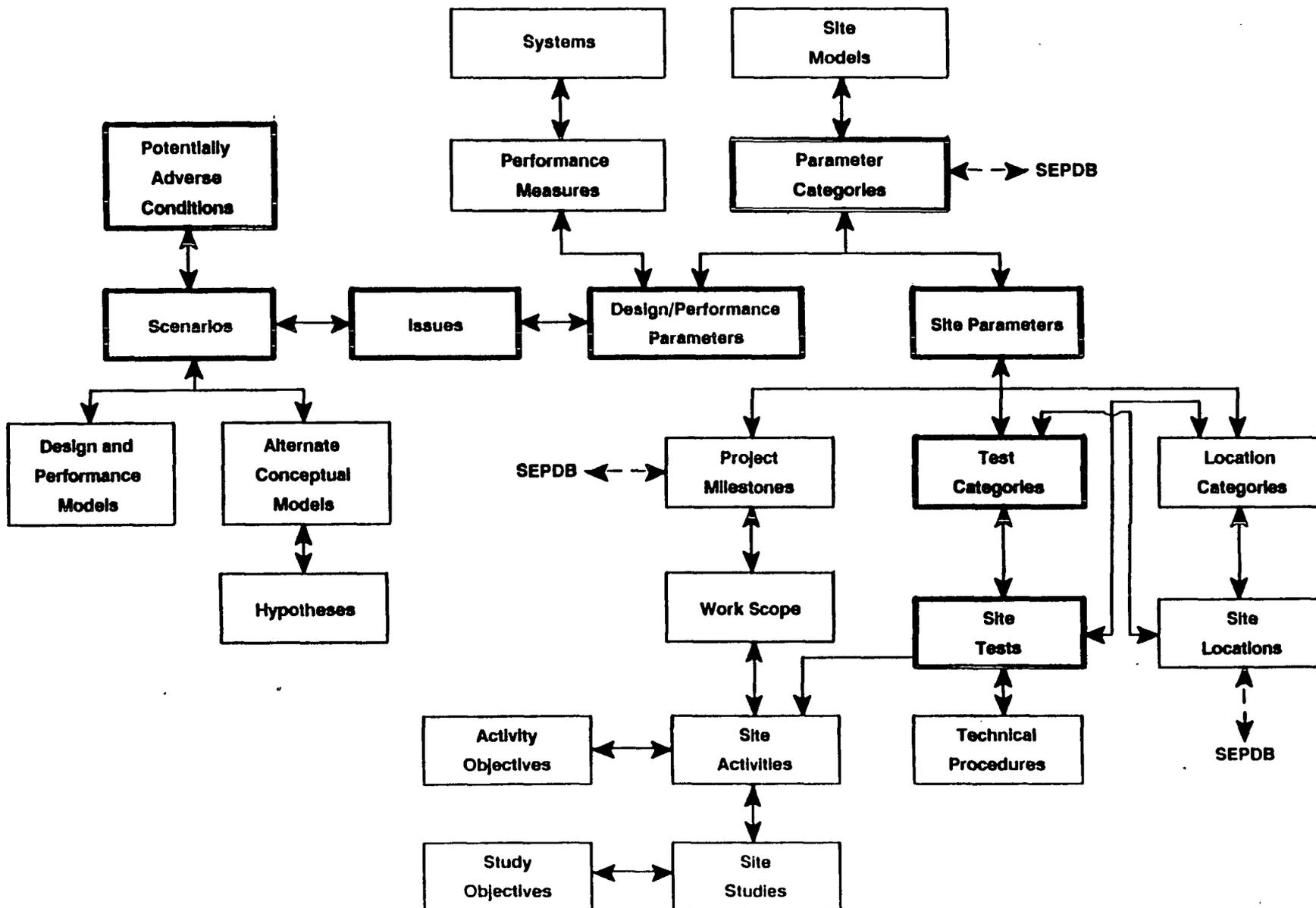
- **PERFORMANCE ALLOCATION (AUTOMATES THE PROCESS)**
 - **WHAT WE NEED TO KNOW vs. WHAT WE KNOW NOW**

- **STUDY PLAN RATIONALE**
 - **REGULATORY**
 - **TECHNICAL**

- **SITE TEST INTEGRATION**
 - **INTERNAL INTEGRATION WITHIN SITE PROGRAM**

- **SITE TEST PRIORITIZATION**
 - **IN CONJUNCTION WITH QUANTITATIVE DECISION METHODOLOGY**

PARATRAC - SOME IMPORTANT LOGICAL RELATIONS



PARATRAC SYSTEM INTERFACES

TECHNICAL SUPPORT DOCUMENTATION

- REGULATORY-TECHNICAL LOGIC
- SITE INFORMATION SCHEDULE FOR DOE POSITION PAPERS AND SAR

SITE AND ENGINEERING PROPERTIES (SEPDB) AND REFERENCE INFORMATION BASE (RIB)

- PARAMETER VALUES (WHAT WE KNOW NOW)

MGDS SYSTEMS AND REQUIREMENTS

- SITE REQUIREMENTS
- NATURAL BARRIERS

PARATRAC SYSTEM INTERFACES

(CONTINUED)

ADDITIONAL INTERFACES THAT COULD POTENTIALLY BE INCORPORATED INTO PARATRAC:

- **EFFECT OF DESIGN REQUIREMENTS (AS THEY EVOLVE) ON SITE TESTING**
- **PLANNING AND CONTROL SYSTEM (PROJECT MANAGEMENT)**
- **SITE TEST PRIORITIZATION**
- **FIELD OPERATIONS (PROJECT PREREQUISITES, FIELD SUPPORT REQUIREMENTS)**

