

ATTACHMENT 1

DOE/NRC Quarterly Management Meeting

Agenda

April 18, 2001

8:00 AM – 12:00 PM PDT / 11:00 AM – 3:00 PM EDT

DOE, 1551 Hillshire, Atrium, Las Vegas, NV 89134	NRC White Flint T2B5, Rockville, MD
DOE Headquarters Forrestal 7F091, Washington, DC	CNWRA San Antonio, TX

8:00 AM	Introductory Comments <ul style="list-style-type: none">▪ John Greeves▪ Lake Barrett▪ Russ Dyer	All
8:15 AM	NRC Program Update	NRC
8:45 AM	DOE Program/Project Update	DOE
9:15 AM	Clarification of NRC Sufficiency	NRC/DOE
10:00 AM	BREAK	
10:20 AM	Licensing Support Network and Electronic Submission of LA	NRC/DOE
10:35 AM	BSC Organization, Responsibilities and Philosophy	BSC
10:45 AM	Management Issues from Previous Day's QA and KTI Meetings	DOE/NRC
10:55 AM	NRC Open Item Tracking	NRC
11:15 AM	Action Item Status	NRC/DOE
11:30 AM	Closing Remarks	All
12:00 PM	Adjourn	All

ATTACHMENT 2

ATTENDEE SIGN-IN
NRC/DOE MANAGEMENT MEETING
APRIL 18, 2001

NAME	ORGANIZATION	PHONE NUMBER
Jeff Ciocco	NRC/NMSS	301-415-6391
James Andersen	NRC/NMSS	301-415-5717
Banad Jagannath	NRC/NMSS	301-415-6653
Lake Barrett	DOE/RW	202-586-6890
Alan Brownstein	DOE/RW	202-586-4973
Tim McCartin	NRC/DWM	301-415-7285
Lynn Deering	ACNW/NRC	301-415-6887
Stan Echolf	WINSTON & STRAWN	202-371-5777
DAVID SIEFKEN	BSC	202-479-2104
Sandra Walter	NRC/DWM	301-415-8733
King Stablein	NRC/DWM/HLWB	301-415-7445
David Brooks	NRC/DWM/HLWB	(301) 415-7284
LARRY Campbell	NRC/DWM/HLWB	301-415-5000
MANNY COMAR	NRC/DWM/HLWB	301-415-6074
John Greaves	NRC/DWM	301-415-7437
Nick DiNunzio	DOE	202-586-8953
PHILIP JUSTUS	NRC/NMSS/WM	301-415-5669
Anita Caporini	DOE/OGC	202-586-8135
Rob MacDonnell	BSC/OKRA	202-479-2122

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ATTENDEE SIGN-IN
NRC/DOE MANAGEMENT MEETING
APRIL 18, 2001

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ATTACHMENT 3



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

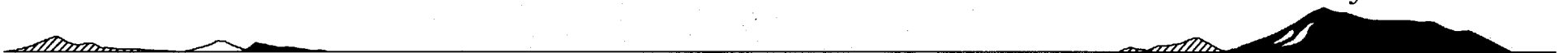
DOE Support of NRC Sufficiency Review

Presented to:
NRC-DOE Management Meeting

Presented by:
**Stephan J. Brocoum, Assistant Manager
Office of Licensing & Regulatory Compliance
Yucca Mountain Site Characterization Office**

April 18, 2001

**YUCCA
MOUNTAIN
PROJECT**



Introduction

- **DOE is proceeding toward a possible decision on a site recommendation in (SR) FY 2002**
- **NWPA Section 114(a)(1)(E) requires that the Secretary include with the basis for a SR**
 - **“preliminary comments of the Commission concerning the extent to which the at-depth site characterization analysis and the waste form proposal for such site seem to be sufficient for inclusion in any application to be submitted by the Secretary”**
- **DOE needs NRC sufficiency comments in September 2001**

NRC's Sufficiency Review

- **It is DOE's understanding that NRC's review will:** *(Based on Jim Felt's briefing to DOE)*
 - **Consider both current information and DOE's plans**
 - **Focus on the foundations for performance estimates**
 - ♦ **Models and supporting data**
 - ♦ **Treatment of uncertainty**
 - ♦ **Understanding of interactions between engineered components and the geologic medium**
 - ♦ **Screening of FEPs relevant to interactions**
 - **Consider the status of KTI resolution**
 - ♦ **Closed-pending status is acceptable for sufficiency**
 - **Assess DOE's progress toward qualification of data and codes, and validation of models for use in licensing**

Information for NRC's Sufficiency Review

- **A large body of technical information has been provided to the NRC throughout the Site Characterization Phase including**
 - **Site Characterization Plan and Study Plans**
 - **Topical Reports (seismicity, criticality)**
 - **Viability Assessment and supporting technical documents**
 - **Process Model Reports and supporting Analysis and Modeling Reports and Systems Description Documents**
 - **Total System Performance Assessment iterations**
 - **KTI Agreement Item deliverables**
- **Many of these documents have been commented on**



Information for NRC's Sufficiency Review

(Continued)

- **Hundreds of NRC/DOE interactions on technical issues have been conducted during the Site Characterization Phase**
- **NRC Onsite Reps. have been present since 1995**
- **This technical information and frequent interactions represent a substantial basis for NRC's Sufficiency Review**
 - **Consistent with the process proposed in DOE letter (Brocoum to Greeves) of 11/24/99**
 - **Provides technical basis for KTI interactions**

Information for NRC's Sufficiency Review

(Continued)

- **Frequency of NRC/DOE interactions has increased in the past three years focusing on issue resolution**
 - **96 interactions since the beginning of 1998**
 - **208¹³ KTI Agreement Items resulting from these technical interactions**
 - ♦ **344 work products to be completed for NRC prior to LA submittal**
 - ♦ **99 of 344 KTI work products have been completed and satisfy approximately 50 Agreement Items**
 - **Additional information requested by NRC to supplement submittals provided on expedited basis wherever possible**
- **More than 430 technical documents have been provided to NRC since the beginning of 2000**

Information for NRC's Sufficiency Review

(Continued)

- **DOE has demonstrated the capability to meet commitments to the NRC in an effective and efficient manner**
 - **Deliverable submittal process & schedule closely managed by DOE**
 - **Schedule changes closely coordinated with NRC**
 - **Current plans and schedules provide for submission of deliverables in advance of potential LA submittal**
- **Progress toward completion of KTI Agreement Items provides confidence that sufficient information will be available for LA**

Ongoing Support for NRC Sufficiency Review

- **Near term plans**
 - **Proposed Interactions with NRC**
 - ♦ **Features Events and Processes Technical Exchange (TE) - May 15-17**
 - ♦ **Igneous Activity Appendix 7 - May 18, and TE- June 20-21**
 - ♦ **Total System Performance Assessment TE - June 25-29**
 - ♦ **Range of Operating Temperatures TE - July 2001**
 - **Evaluations and documentation of the expanded range of operating mode for the current design are currently underway**
 - **FY 01 re-plan and FY 02 planning activity to complete technical basis for a possible SR decision and to perform work to support KTI Agreement Item closure**

Ongoing Support for NRC Sufficiency Review

(Continued)

- **DOE is evaluating the flexibility of the design to a range of operating temperatures**
 - **Analyzing the range of operating modes evaluates the robustness of the design and is not a design change**
 - **Technical Exchange planned for July 2001 will address aspects of the models and KTIs impacted by lower temperature operating modes**
 - ♦ **technical documentation will be provided to support these analyses**
 - **We believe that NRC will have adequate information to assess DOE's consideration of the range of operating modes**

Ongoing Support for NRC Sufficiency Review

(Continued)

- **FY 01 re-planning effort has focused on completing the technical basis for a possible SR**
 - **NRC will be advised of any necessary schedule changes**
 - **Agreement Items' technical work is being logically tied to and integrated with the project's multi-year plan**
- **Sufficiency process not expected to be impacted by re-plan activity**
- **Key assumption in FY 02 planning is to ensure adequate time available to complete Agreement Items prior to the LA submittal**

Future Actions on NRC Sufficiency

- **NRC comments on need for additional data or analyses will be considered by DOE for LA planning**
- **Supplemental information related to KTIs will be provided as the design and analytical basis matures to meet LA needs**
- **DOE continues to work toward achieving its goals for qualifying data and software, and validating models**

DOE Needs for Supporting a Possible SR

- **NRC's sufficiency comments are a statutory prerequisite for a possible site recommendation**
- **DOE needs regarding NRC's sufficiency comments**
 - **Early notification of potentially significant issues**
 - **Open and transparent interaction process**
 - **Sufficiency comments available for consideration by the Secretary in September 2001**

Summary

- **DOE is completing its technical basis for a possible site recommendation in FY 2002**
- **Substantial technical information has been provided that is currently available for NRC to consider in its sufficiency review**
- **Information currently available, together with the process established for dispositioning the remaining KTI issues, provides an adequate basis for NRC to render sufficiency comments**
- **DOE needs NRC sufficiency comments in September 2001**



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

BSC ORGANIZATION, RESPONSIBILITIES AND PHILOSOPHY

Presented to:
NRC-DOE Management Meeting

Presented by:
Ken Hess
General Manager
Bechtel SAIC Company, LLC

April 18, 2001

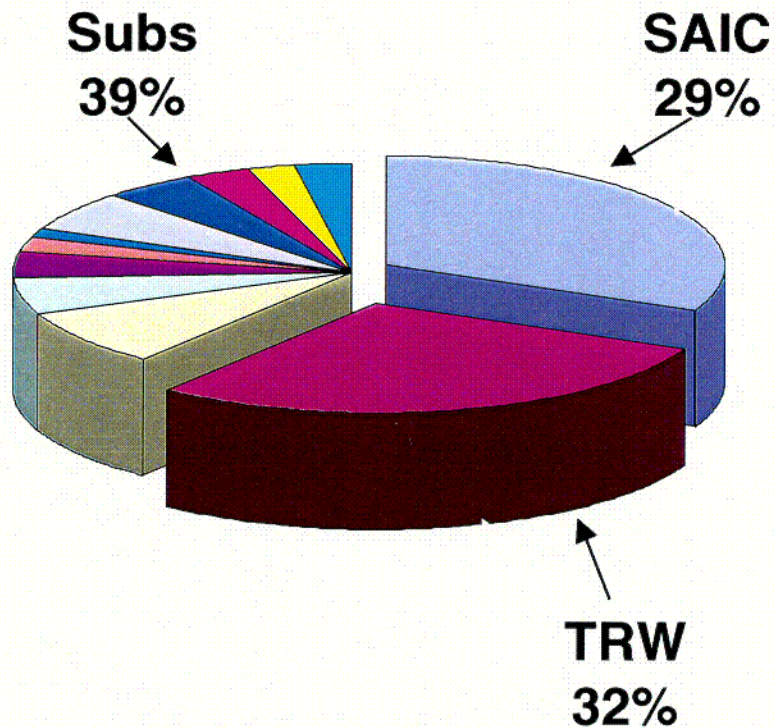
**YUCCA
MOUNTAIN
PROJECT**

The Project Team

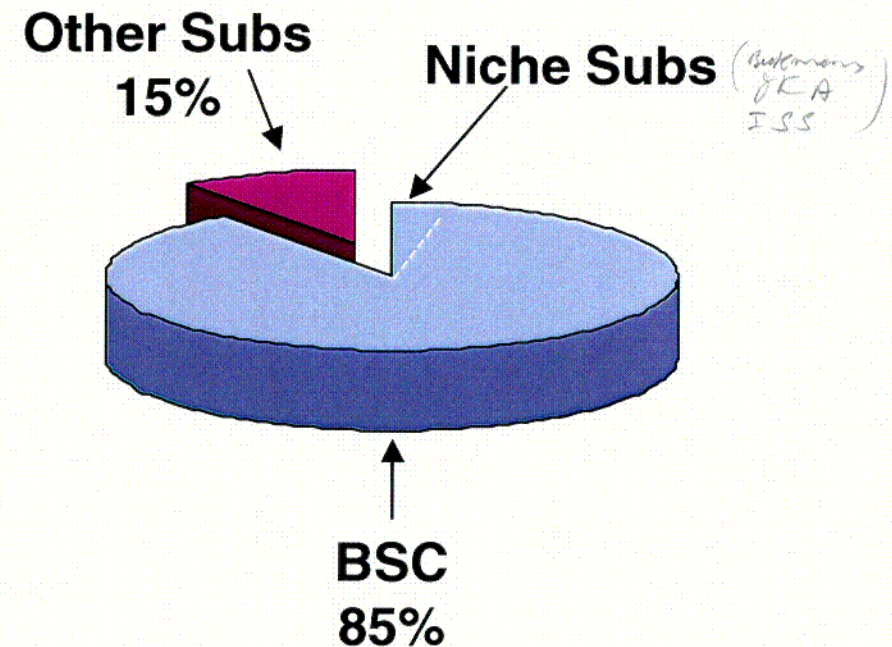
- **BSC Yucca Mountain team**
 - **BSC: Prime**
 - **Beckman and Associates: Team Subcontractor**
 - **JK Research Associates: Team Subcontractor**
 - **Integrated Science Solutions: Team Subcontractor**

YMP Workforce Company Affiliations

Incumbent

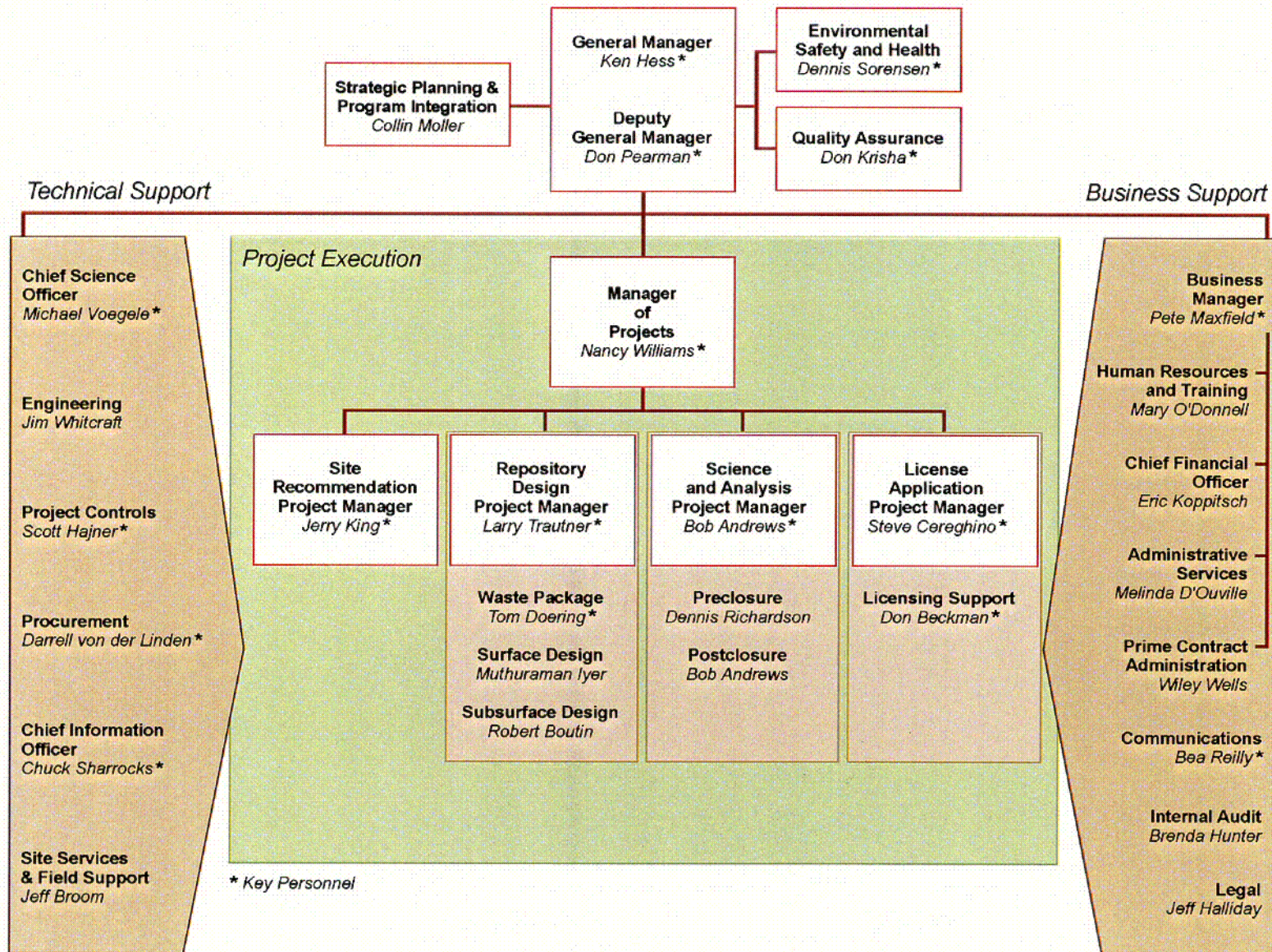


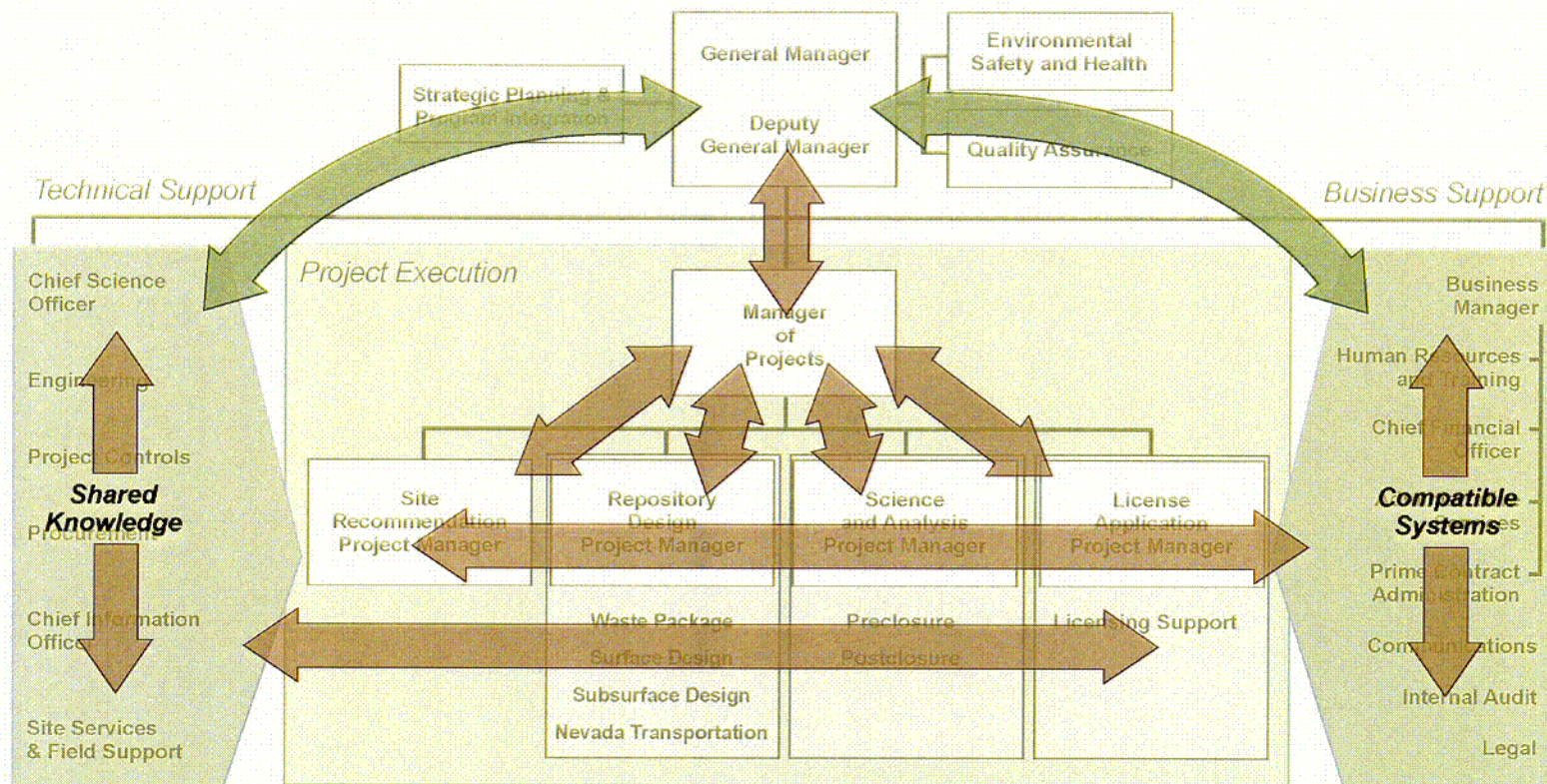
BSC at 2/12/01



Organization

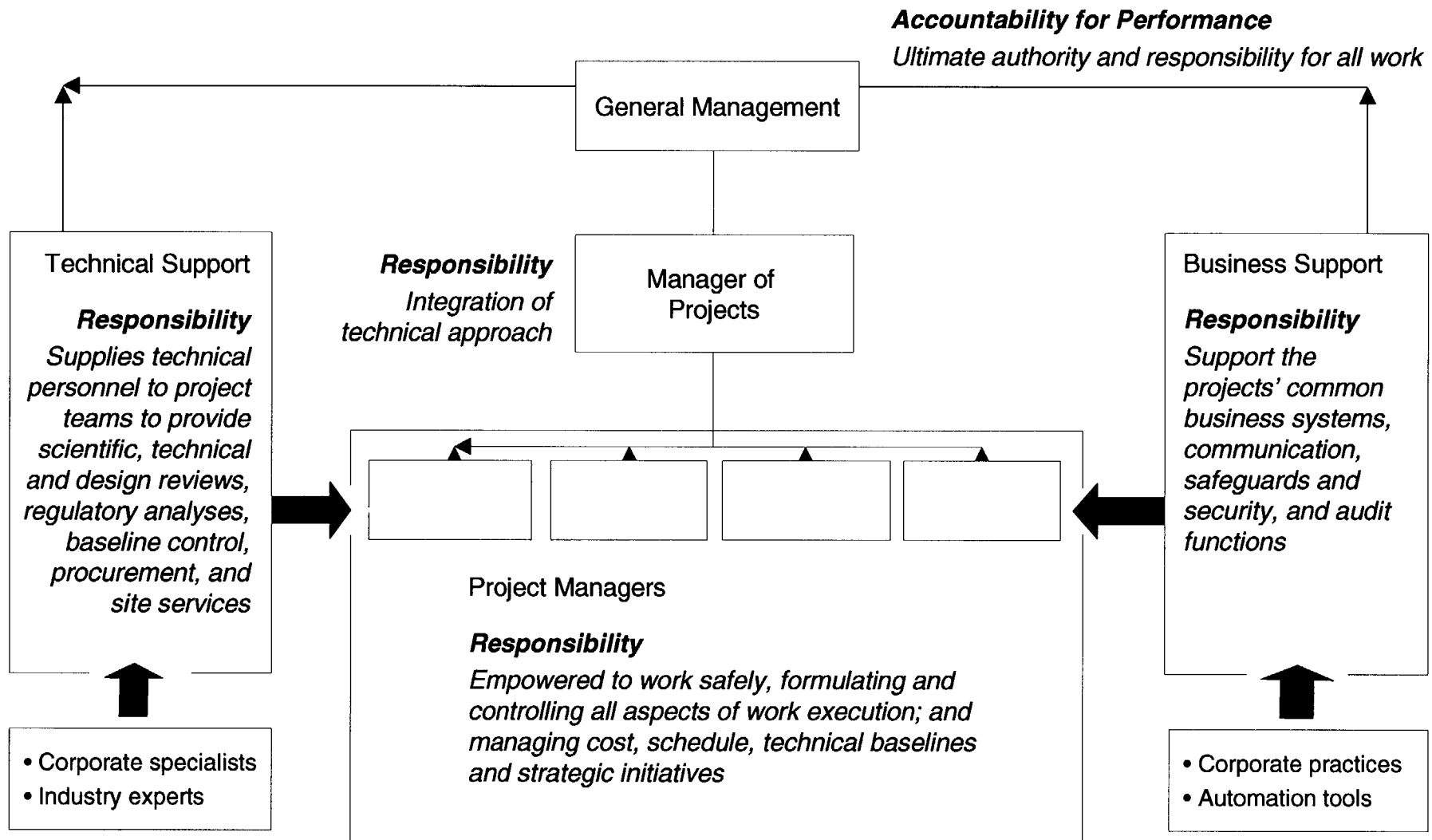






Responsibilities

Operations



Philosophy



Philosophy

- **Safety Culture / ISM Environment**
 - Nuclear vs. Traditional
- **Quality**
 - Independent Audit
 - Matrixed Day-to-Day Support
- **Credibility**
 - Political
 - Science/Technical
 - Legal
- **Collaborative Working Relationships**



ATTACHMENT 4

DOE/NRC Management Meeting Action Items

Num	Action Item	Status	Remarks
00/12-01	NRC will follow-up with DOE on Employee Concerns Program as part of transition.	New	The NRC On-Site Representative monitors the Employee's Concerns Program as part of routine oversight, and briefs NRC management on the results.
00/12-02	DOE will provide clarification regarding regulatory transition issues.	New	Clarification was provided to the NRC On-Site Representative Office following the December Management Meeting.
00/12-03	A KTI breakout sessions will be held prior to the next Management Meeting.	New	A separate KTI breakout session was held on April 17, 2001, prior to the April Management Meeting. This practice will continue as long as necessary.
00/12-04	DOE will provide an update on the status of FEPs database availability to NRC prior to the technical exchange on TSPAI KTI.	New	DOE has kept the NRC informed of the status of the FEPs database availability. The FEPs database was provided to the NRC via letter, Brocoum to Reamer, dated March 22, 2001.
00/09-01	DOE will provide, in writing to NRC, the status of Data Qualification and Verification and Software Qualification in March of 2001.	In Progress	Status is periodically provided to ORs and at Management or QA Meetings. Although formal written transmittal was to be provided in March 2001, this item was originally scheduled contingent upon a December 2000 SRCR submittal. Based on changes to program schedule, this has been delayed. However, as agreed in the April 18, 2001 Management Meeting, DOE will provide NRC by May 17, 2001 a date by which an analysis of any impact and significance of unqualified data and software will be provided.

DOE/NRC Management Meeting Action Items

Num	Action Item	Status	Remarks
00/04-05	DOE and NRC agreed to establish a consolidated list of commitments and open items and develop a process to track which open items are closed, closed pending confirmation, or open. The status of this effort will be reported at future management meetings	In Progress	There was a demonstration of CIRS database and commitment management system on 11/21/00 to demonstrate DOE open item management. Also, KTI status was discussed at the December 20, 2000 and prior to the April 18, 2001 Management Meeting. NRC will provide the OITS report to DOE in the near future.
00/04-06	NRC will continue to work with the DOE to make the "Goldsim" code available	Complete	The Goldsim Code was provided to the NRC, and Golder provided a training session for NRC staff. DOE and NRC agree that this item is complete.