



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

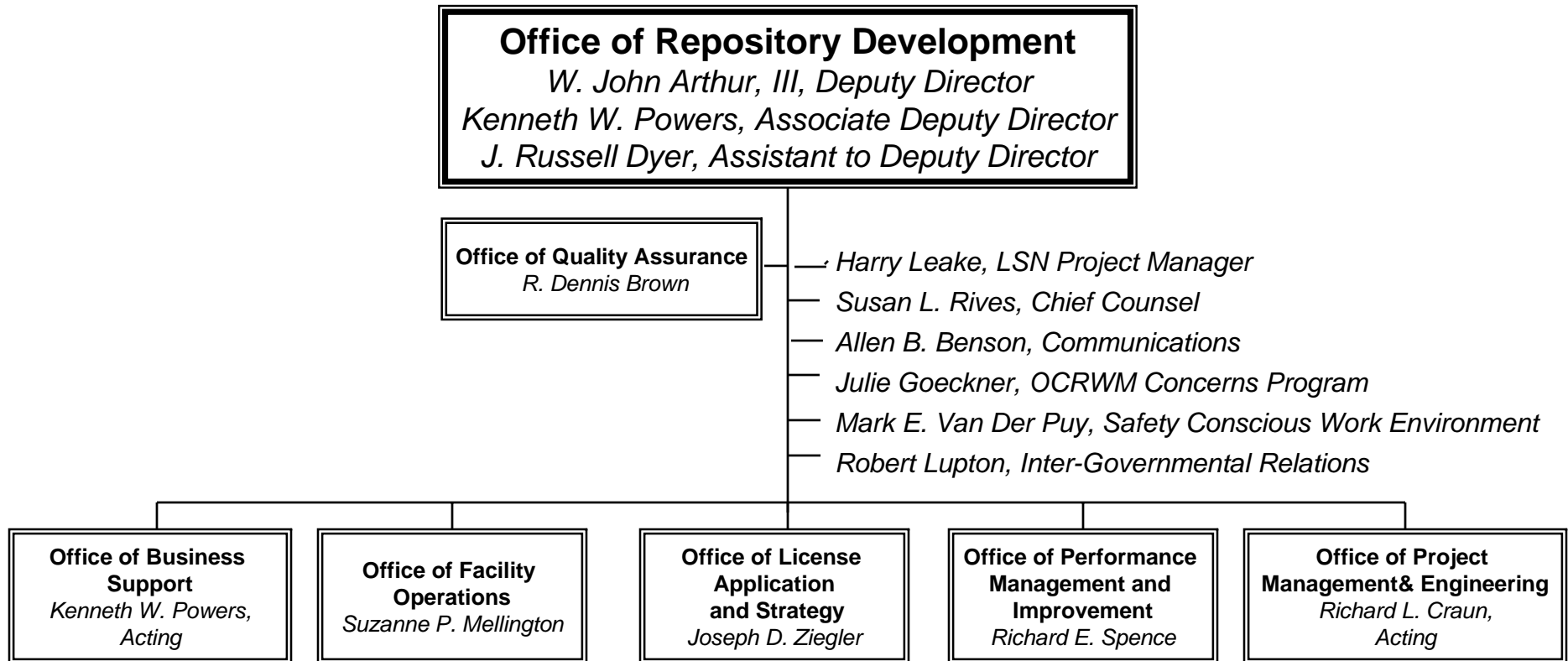


Office of Repository Development Project Update

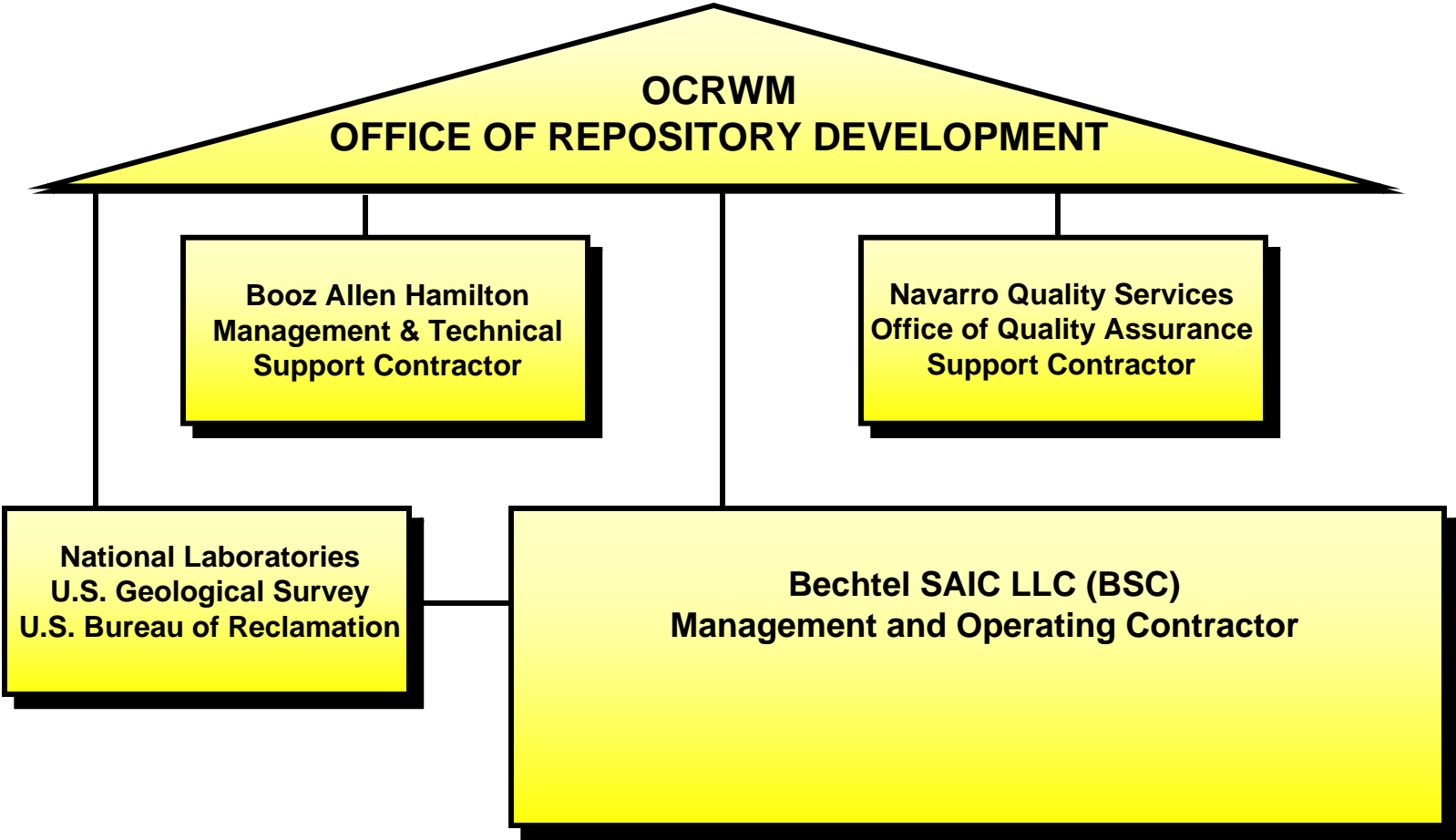
Presented by:
W. John Arthur, III
Deputy Director, Office of Repository Development
U.S. Department of Energy

September 20, 2004
Las Vegas, Nevada

Office of Repository Development



Office of Repository Development and its Technical Participants



Progress Toward License Application

Component	% Complete (Jun '03)	% Complete (Jul '04)
KTI Agreements Addressed	27%	* 94%
LA Document	5%	76%
Preclosure Safety Assessment	14%	89%
TSPA-LA	35%	81%**
Design	25%	90%
Total Weighted % Complete	25%	85%

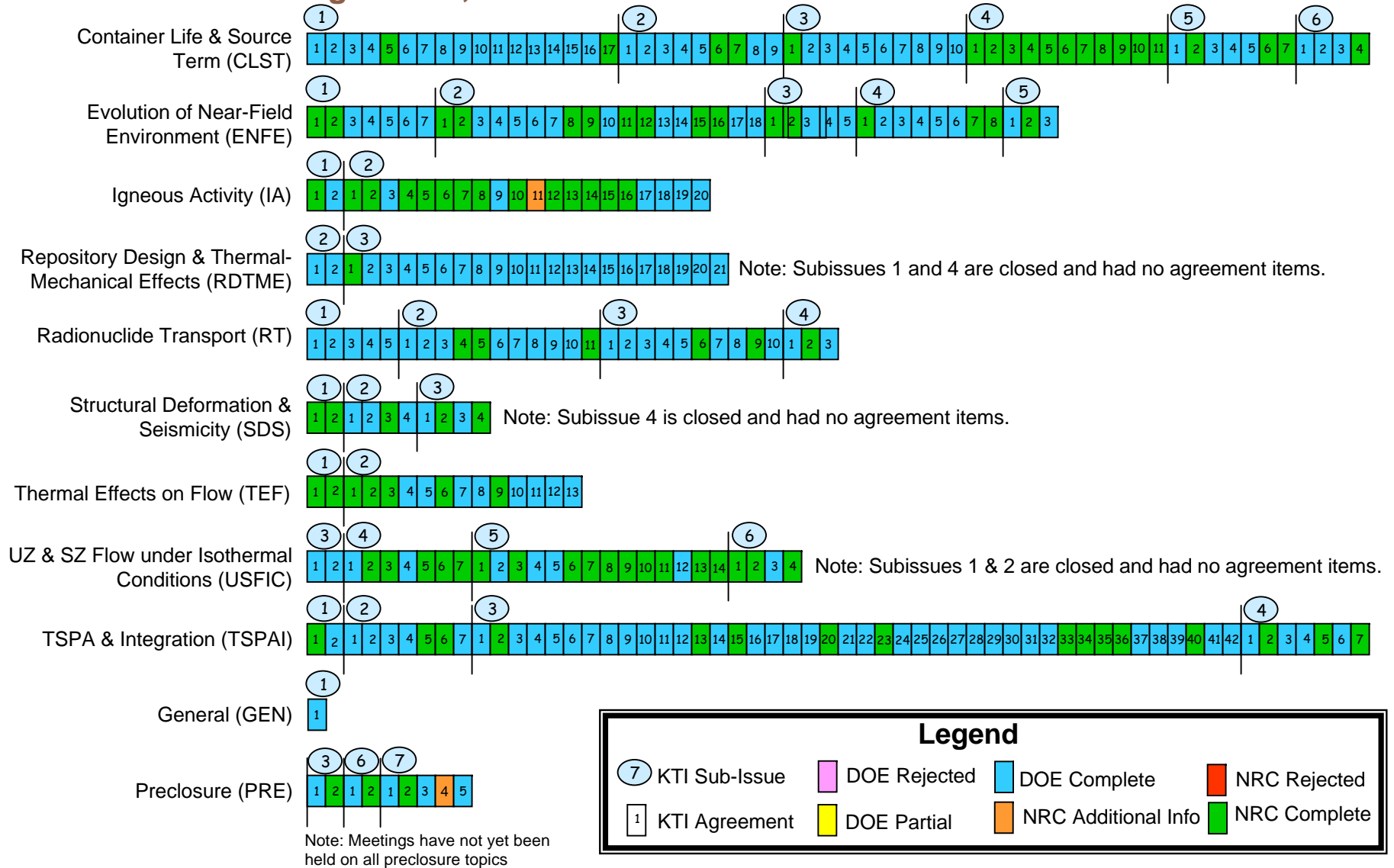
* Status reflected as % of 293 agreements with DOE submittals to NRC as of July; 100% complete was achieved August 31, 2004

** This value will be held at the current value through September pending completion of the Analysis Model Report/Regulatory Integration Team (AMR/RIT) effort and the Total System Performance Assessment-License Application (TSPA-LA) document



DOE Key Technical Issue Progress Thermometer

As of August 31st, DOE had transmitted/addressed 100% of all KTIs

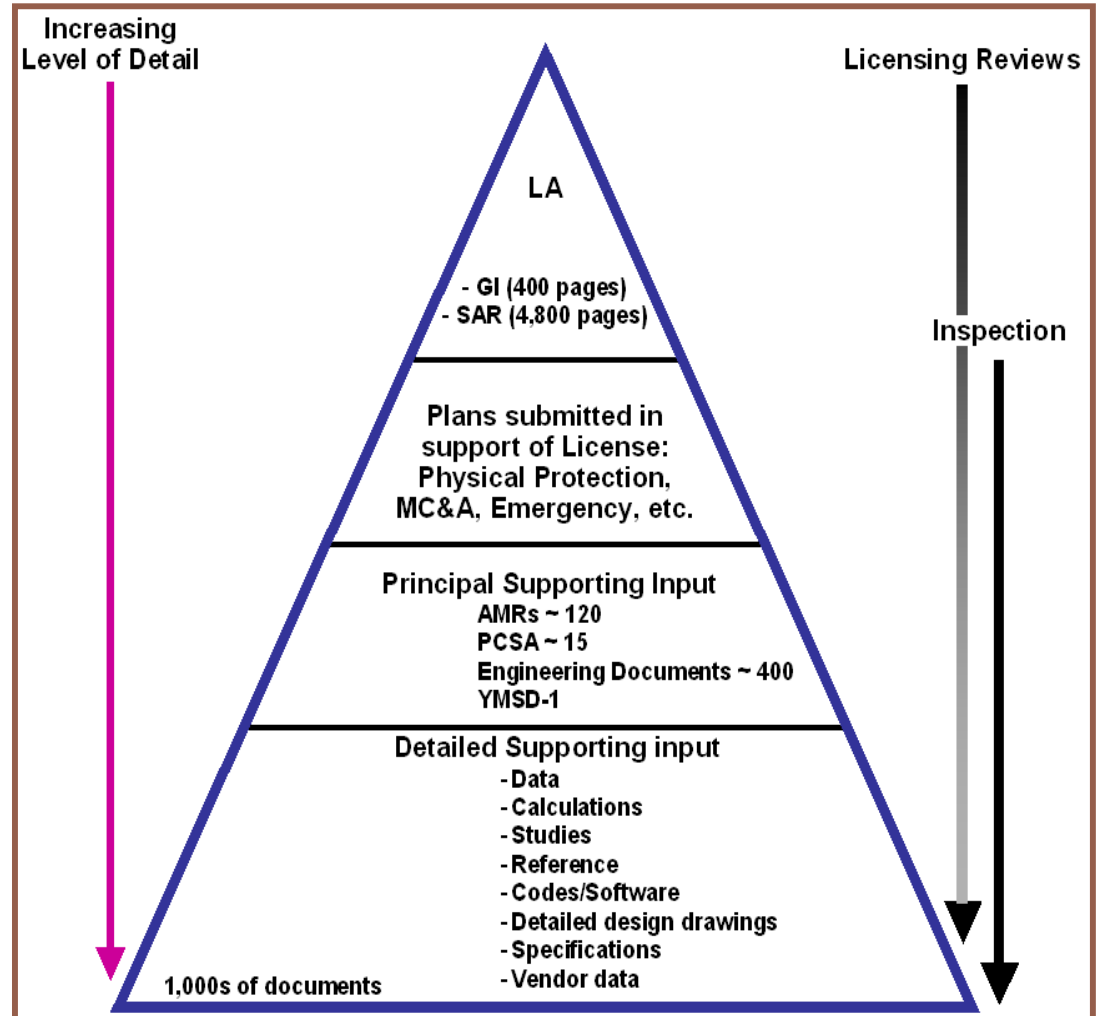


⑪ Note: Additional Information on IA-2.11 & PRE-7.4 to be provided in License Application



License Application Content and Supporting Documents

- **General Information (GI), 400 pages**
 1. General Description
 2. Proposed Schedules for Construction, Receipt and Emplacement of Waste
 3. Physical Protection Plan
 4. Material Control and Accounting Program
 5. Site Characterization
- **Safety Analysis Report (SAR), 4,800 pages**
 1. Repository Safety Before Permanent Closure
 2. Repository Safety After Permanent Closure
 3. Research and Development Program to Resolve Safety Questions
 4. Performance Confirmation Program
 5. Administrative and Programmatic Requirements



Licensee Transition Team

- **Tasked with developing a transition plan that defines the goals, actions, milestones, and responsibilities for a successful transition to an NRC-regulated environment**
- **Reports to the ORD Associate Deputy Director, chaired by Richard Spence**
- **LTT is responsible for:**
 - **Defining key attributes of a successful NRC Applicant/Licensee**
 - **Defining best practices, processes and systems for each project phase**
 - **Identifying current state and perform gap analysis**
 - **Defining action plans and time frame to implement transition**
 - **Performing inspection readiness**

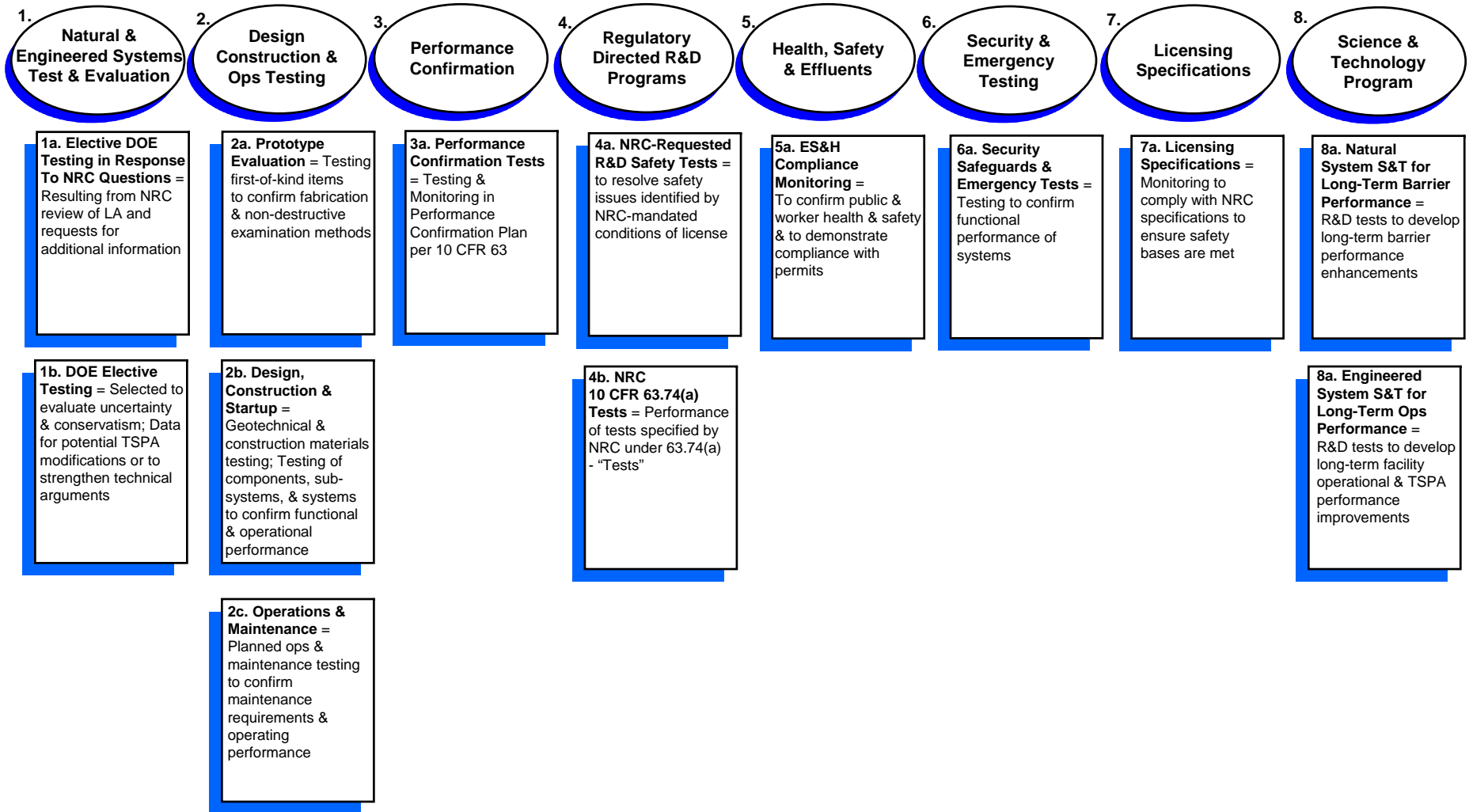


Key Attributes of a Successful Licensee

Key Attribute	Demonstrated By
Leadership	<ul style="list-style-type: none"> • Vision is apparent • Conservative and fully-informed decision making is used • Defensible management systems are used • Executable strategies are in place • Team work and individual accountability are evident • Sound planning and rigorous execution is evident
Commitment to Quality and a Strong Nuclear Safety Culture	<ul style="list-style-type: none"> • Cost/Schedule pressure does not compromise quality or safety • Actions are traceable and defensible • Rigorous, industry standard processes are used • Nuclear operating experience (i.e., lessons learned) is used • Incorporate defense-in-depth and risk management • Strong employee concerns program is in place • The Safety Conscious Work Environment includes evidence of a strong nuclear safety culture
Clear Organizational Goals	<ul style="list-style-type: none"> • Goals and progress toward goals are effectively communicated throughout the organization • Clear expectations for performance are communicated • Metrics are established to measure performance against goals and are visibly displayed



Testing Categories and Criteria



SCWE

**MANAGEMENT
SUPPORT**

85%
(up from 77%)

**WORKER
CONFIDENCE
and TRUST**

**EFFECTIVE
NORMAL
PROBLEM
RESOLUTION
PROCESSES**

70%
(up from 58%)

**Corrective
Action Program
& Differing
Professional
Opinions**

**EFFECTIVE
ALTERNATE
PROBLEM
RESOLUTION
PROCESSES**

85%
(up from 76%)

**OCRWM
Concerns
Program &
BSC Employee
Concerns
Program**

**EFFECTIVE
METHODS TO
DETECT AND
PREVENT
RETALIATION**

90%
(up from 86%*)

**FOCUS / SCWE
Review Team
* Pulse Survey**

Joint Leadership Council SCWE Improvement Goals



August 2004 MOR Annunciator Panel

	Primary				Secondary				Focus Areas									
	Y	O	G	*	Y	O	G	*	Y	O	G	*						
Work Execution	1.1 Licensing				1.1.1 License Application Development				1.1.2 NRC Interactions		1.1.3 License Support Network Input		1.1.4 NRC Commitments		1.1.5 Key Technical Issues		FA1 Safeguards	
	1.2 Engineering/Design				1.2.1 Surface Facilities				1.2.2 Subsurface Facilities		1.2.3 Engineered Barriers		1.2.4 Reqs & Integration Management				FA2 Regulatory Integration Team (RIT)	
	1.3 Safety Analysis				1.3.1 TSPA				1.3.2 Performance Confirmation		1.3.3 Preclosure Safety Analysis							
	1.4 Site Operations				1.3.6 Data Qualification				1.3.7 Model Validation		1.3.8 Software Qualification							
	1.4.2 Site Maintenance Activities				1.4.4 Operations				1.4.5 Bechtel Nevada		1.4.6 Site Critical Systems							
	2.1 Project Support				2.2 Safety, Health, and the Environment				2.2.1 Incidents		2.2.2 ES&H Program Awareness		2.2.3 ES&H Reporting					
	2.3 Quality Assurance				2.3.1 Product Quality				2.3.2 Process Quality		2.3.3 Vendor Quality		2.3.4 Corrective Action Program Quality		2.3.5 Quality Systems			
	2.4 Corrective Action Mgmt System				2.4.1 CAP Effectiveness				2.4.2 Self Reporting Culture		2.4.3 Timely Analysis & Plan Development		2.4.4 Timely CA Resolution					
	2.5 Management Framework				2.5.1 Procedures				2.5.2 Requirements Management		2.5.3 Lessons Learned Program		2.5.4 Integrated Assessment Program					
	2.7 Project Management				2.7.1 Cost Performance (Overall CPI)				2.7.2 Schedule Performance (Overall SPI)		2.7.3 Scope Baseline		2.7.4 Risk & Contingency		2.7.5 Key Deliverable Critical Path Float			
	2.8 Organizational Climate				2.8.1 Employee Concerns				2.8.2 Safety Culture		2.8.3 SCWE		2.8.5 Internal Comm.					
	3.1 External				3.1.2 External Comm.				3.1.5 Funding									
	4.1 Human Performance				4.1.1 Error Prevention				4.1.2 Human Performance Awareness		4.1.3 Error Correction		4.1.4 Learning Culture					
	Management	3.1 External				3.1.2 External Comm.				3.1.5 Funding								
4.1 Human Performance				4.1.1 Error Prevention				4.1.2 Human Performance Awareness		4.1.3 Error Correction		4.1.4 Learning Culture						

Note: Reflects data as of July 2004

