

POWER UPDATES

DEVELOPMENT OF REVIEW STANDARD FOR EXTENDED POWER UPDATES

**ACRS 498th Meeting
December 5, 2002**

- Background
- ACRS Feedback
- Review Standard
- Purpose of a Review Standard
- Development of the EPU Review Standard
- Discussion of the EPU Review Standard
- Schedule
- Conclusions

BACKGROUND

- Maine Yankee Lessons Learned
- Template Safety Evaluations
- SECY-01-0124, dated July 9, 2001
- Commission Meeting with ACRS, December 5, 2001
- ACRS Letters on EPU Reviews
- SECY-02-0106, dated June 14, 2002

ACRS FEEDBACK

- Documentation
- Reload Analyses
- Independent Calculations
- Anticipated Transients Without Scram
- Fuel
- Operator Action Times
- Material Degradation
- Containment Response
- Large Transient Testing
- Probabilistic Risk Assessment
- Communication with Inspection Staff

REVIEW STANDARD

- Clearer Definition of Review Scope
- Technical Review Criteria
- Process Guidance
- Boilerplate Safety Evaluations

PURPOSE OF A REVIEW STANDARD

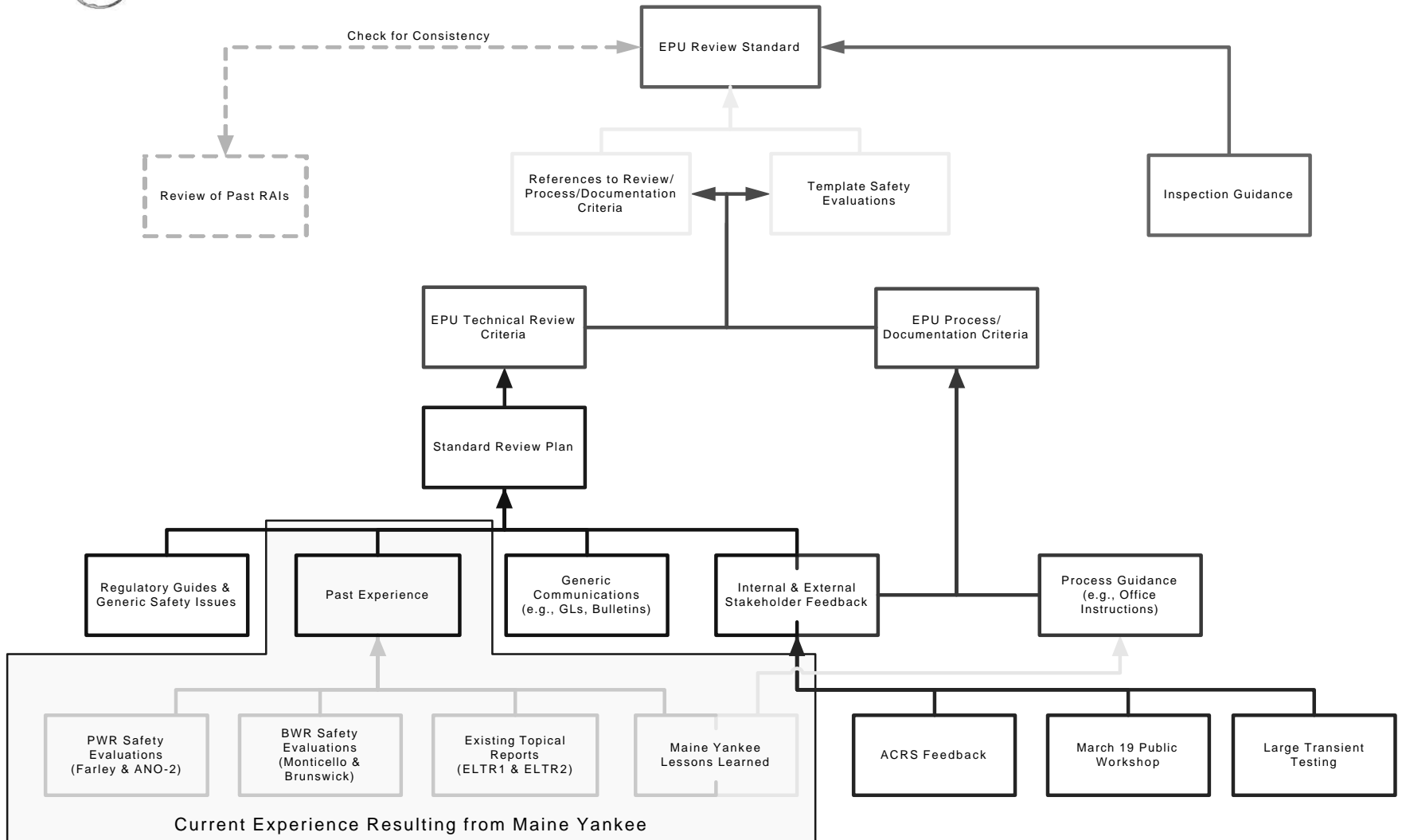
- Provide:
 - Comprehensive Guidance
 - Mechanism for Retention of Institutional Knowledge
 - Technical Review Criteria and Procedural Guidance
 - Updated Guidance

PURPOSE OF A REVIEW STANDARD

- Increase Effectiveness and Efficiency of Reviews by:
 - Implementing NRR's Vision for Centralized Work Planning
 - Improving Focus, Consistency, Completeness, and Thoroughness of Reviews
- Improve Documentation of Reviews



Development of Extended Power Uprate Review Standard



REVIEW STANDARD FOR EXTENDED POWER UPRATES

Covers:

Technical Review

Environmental Assessment

Proprietary Review

Noticing in Federal Register

Provides Flowchart for Process

Identifies Procedural Guidance

SECTION 1 PROCEDURAL GUIDANCE

SECTION 2 TECHNICAL REVIEW GUIDANCE

SECTION 3 DOCUMENTATION OF REVIEW

SECTION 4 INSPECTION GUIDANCE

Areas of Review

Acceptance Review Checklist

Responsible NRR Review Branches

Guidance Documents

Guidance for Independent Analyses

**SECTION 2
TECHNICAL REVIEW GUIDANCE**

**SECTION 3
DOCUMENTATION OF REVIEW**

**SECTION 4
INSPECTION GUIDANCE**

Standardize Format and Content

*Provide Regulatory Evaluation and
Conclusion for Each Area of Review*

*Technical Evaluation Provided After
Review*

Consistent with NRR Guidance

SECTION 3 DOCUMENTATION OF REVIEW

SECTION 4 INSPECTION GUIDANCE

Inspection Procedure for Power Upgrades

*Documentation Highlights Recommended
Areas for Inspection*

**SECTION 4
INSPECTION GUIDANCE**

REVIEW STANDARD FOR EXTENDED POWER UPRATES

SCHEDULE

- Issue Review Standard for Interim Use and Public Comment – December 2002
- Brief ACRS on Results of Public Comment
- ACRS Review Following Public Comment
- Address Any Additional ACRS Comments
- Issue Final Review Standard – Early 2004

CONCLUSIONS

- The Staff is Near Completion of the Draft Review Standard for Extended Power Upgrades
- Review Standard will Address ACRS Feedback
- Review Standard is Expected to Improve Effectiveness and Efficiency through Improved Focus, Consistency, Completeness, and Thoroughness of Reviews.
- Review Standard is Expected to Result in Better Documentation of Reviews.