U.S.NRC

UNITED STATES NUCLEAR REGULATORY COMMISSION

*Protecting People and the Environment*

# ITAAC Closure Guidance Development Workshop 6

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# Workshop Examples

- ABWR Examples
  - 2.1.1.3 RPV Hydrostatic Testing (225-Day Notification)
  - 2.3.3.3 CAMS Power Divisions
  - 2.14.4.4a SGTS (225-Day Notification)
  - 2.15.12.5 Control Building (Resubmittal)
  - 3.3.1 ASME Piping Design Criteria

- ESBWR Examples
  - 2.3.5.1 Emergency Facilities and Equipment
  - 2.13.1.6c On-Site AC Power

# ABWR
# 2.1.1.3 RPV Hydrostatic Testing

Design Commitment

The ASME Code components of the RPV System retain their pressure boundary integrity under internal pressure that will be experienced during service.

Inspections, Tests, Analyses

A hydrostatic test will be conducted on those code components of the RPV System required to be hydrostatically tested by the ASME Code.

Acceptance Criteria

The results of the hydrostatic test of the ASME Code components of the RPV System conform with the requirements in the ASME Code, Section III.

# ABWR
# 2.3.3.3 Containment Atmospheric Monitoring System Power Divisions

Design Commitment

Each CAMS division is powered from its respective divisional Class 1E power source. In the CAMS, independence is provided between Class 1E divisions, and between Class 1E divisions and non-Class 1E equipment.

Inspections, Tests, Analyses

a. Tests will be performed on the CAMS by providing a test signal to only one Class 1E division at a time.

b. Inspection of the as-built Class 1E divisions in the CAMS will be performed.

Acceptance Criteria

a. The test signal exists only in the Class 1E division under test in the CAMS.

b. In the CAMS, physical separation or electrical isolation exists between Class 1E divisions. Physical separation or electrical isolation exists between these Class 1E divisions and non-Class 1E equipment.

# ABWR
# 2.14.4.4a Standby Gas Treatment System

Design Commitment

The SGTS maintains a negative pressure of 6.35 mm water gauge or greater in the secondary containment relative to the outdoor atmosphere within 20 minutes when the secondary containment is isolated.

Inspections, Tests, Analyses

Tests will be conducted on each as-built SGTS division.

Acceptance Criteria

The SGTS maintains a negative pressure of 6.35 mm water gauge or greater in the secondary containment relative to the outdoor atmosphere within 20 minutes when the secondary containment is isolated.

# ABWR
# 2.15.12.5 Main Control Area Envelope

Design Commitment

The main control area envelope is separated from the rest of the C/B by walls, floors, doors and penetrations which have a three-hour fire rating.

Inspections, Tests, Analyses

Inspections of the as-built structure will be conducted.

Acceptance Criteria

The as-built C/B has a main control area envelope separated from the rest of the C/B by walls, floors, doors and penetrations which have a three-hour fire rating.

# ABWR
# 3.3.1 ASME Piping Design Criteria

Design Commitment

The piping system shall be designed to meet its ASME Code Class and Seismic Category I requirements.

The ASME Code Class 1, 2, and 3 piping system shall be designed to retain its pressure integrity and functional capability under internal design and operating pressures and design basis loads. Piping and piping components shall be designed to show compliance with the requirements of ASME Code Section III.

Inspections, Tests, Analyses

Inspections of ASME Code required documents will be conducted.

Acceptance Criteria

An ASME Code Certified Stress Report exists for the piping system and concludes that the design complies with the requirements of ASME Code, Section III.

# ESBWR
# 2.3.5.1 Emergency Facilities and Equipment

Planning Standard

10 CFR 50.47(b)(8) – Adequate emergency facilities and equipment to support the emergency response are provided and maintained.

EP Program Elements

5.1 The licensee has established a technical support center (TSC) and onsite operations support center (OSC). [H.1]
ITAAC element addressed in: COL EP II.H.1

Inspections, Tests, Analyses

5.1 An inspection of the as-built TSC and OSC will be performed.

Acceptance Criteria

5.1.1 A report exists that confirms the TSC has at least 174 square meters (1875 square feet) of floor space.

5.1.2 A report exists that confirms the following communications equipment have been provided in the TSC and voice transmission and reception have been accomplished:

- NRC systems: Emergency Notification System (ENS), Health Physics Network (HPN), Reactor Safety Counterpart Link (RSCL), Protective Measures Counterpart Link (PMCL), Management Counterpart Link (MCL)
- Dedicated telephone to EOF
- Dedicated telephone to control room
- Dedicated telephone to OSC

5.1.3 A report exists that confirms the TSC has been located in the Electrical Building.

5.1.4 A report exists that confirms the TSC includes radiation monitors and a ventilation system with a high efficiency particulate air (HEPA) and charcoal filter.

5.1.5 A report exists that confirms back-up electrical power supply is available for the TSC.

5.1.6 A report exists that confirms the OSC is in a location separate from the control room.

5.1.7 A report exists that confirms the following communications equipment have been provided in the OSC and voice transmission and reception have been accomplished:

- Dedicated telephone to control room
- Dedicated telephone to TSC
- Plant page system (voice transmission only)

# ESBWR
# 2.13.1.6c On-site AC Power

Design Commitment

The standby power supply breaker closes when the standby diesel generator is ready to load.

Inspections, Tests, Analyses

Testing will be performed using real or simulated signals.

Acceptance Criteria

Test report(s) demonstrate that the as-built standby power supply breaker closes after receiving a real or simulated ready to load signal from the standby AC power system.

# Conclusions and Recommendations

- Workshop Summary
- Public Meeting Schedule:

  April 3, 2008

  Recommend Mid-May, 2008
- NRC would appreciate detailed feedback on the workshop format – forms available in the back of the room

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