

# Resolution Summary of Acceptance Review Results (Inservice Testing Program Description)

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- Background
- Resolution Summary
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# Background

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- **Acceptance Review Result**
  - **DCD Section 3.9.6**
    - **The Applicant is requested to provide additional information to satisfy NRC policy on operational program descriptions such as ;**
      - **The attribute of periodic verification programs for power operated valves consistent with the lessons learned from valve testing program and nuclear power plant operating experience.**
      - **Whether OM Code Cases will be implemented as part of the IST program for pumps, valves, and dynamic restraint as accepted in Regulatory Guide 1.192 or as a separate alternative authorization pursuant to 10CFR50.55a.**

# Background

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- **Acceptance Review Result**
  - **DCD Section 3.9.6**
    - **The applicant will be requested to designate as Tier 2\* the functional qualification of pumps and valves in accordance with ASME QME-1-2007, as accepted in Revision 3 to Regulatory Guide 1.100**
    - **The Applicant will be asked to clarify COL information Items related to IST, including the responsibility of the COL applicant to provide a full description of the IST programs for pumps, valves, and dynamic restrains, as well as to identify site specific active pumps and valves**

# Resolution Summary (1/4)

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- The attribute of periodic verification programs for power operated valves consistent with the lessons learned from valve testing program and nuclear power plant operating experience.

- Resolution :

- APR 1400 DCD Section 3.9.6 will be revised to add the lesson learned items including the following description.

The IST program for Motor Operated Valves also incorporates the guidance of NUREG 1482, Revision 2. Periodic verification program of safety related MOVs incorporates the guidance of Generic Letter 96-05 with regards to MOV periodic performance verification program. The MOV testing program implements the recommendations from the Joint Owners Group(JOG) MOV Periodic Verification Program (MPR-2524-A, November 2006).

## Resolution Summary (2/4)

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- ASME OM Code Cases will be implemented as part of the IST program for pumps, valves as accepted in Regulatory Guide 1.192.

- Resolution

- APR 1400 DCD Section 3.9.6 will be revised to add the implementation of OM Code Cases including the following description.

ASME Code Case OMN-1 (2006 ad.), with conditions in Regulatory Guide 1.192 Rev.1, will be applicable which provides an alternative method to MOV stroke time testing that also satisfies the requirement in 10 CFR 50.55a to supplement the OM Code IST provisions.

ASME Code Case OMN-13 (2004 ed.) in Regulatory Guide 1.192 Rev.1, will be applicable for visual examination intervals of dynamic restraints.

# Resolution Summary (3/4)

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- The applicant will be requested to designate as Tier 2\* the functional qualification of pumps and valves in accordance with ASME Standards QME-1-2007.

- Resolution :

- APR 1400 DCD Section 3.9.6.1 will be revised to add the following;

The functional qualification of safety related active pumps, valves, and dynamic restraints will be performed in accordance with ASME QME-1-2007 as endorsed in Regulatory Guide 1.100 Rev.03.

Designation of Tier 2\* needs further discussion.

# Resolution Summary (4/4)

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- The applicant will be asked to clarify COL information items related to IST, including the responsibility of the COL applicant to provide a full description of the IST programs for pumps, valves, and dynamic restraints, as well as to identify site specific active pumps and valves.

- Resolution :

- APR 1400 DCD Section 3.9.6 will be revised to add the following;

The COL applicant will provide a full description of the IST program for pumps, valves and dynamic restraints as required by 10 CFR 50.55a. This program will be consistent with the requirements in the administratively controlled edition and addenda of the OM Code.

# Future Plan

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- **Revise APR 1400 DCD Section 3.9.6**
  - **KHNP will revise APR 1400 DCD Section 3.9.6 as a results of clarification meeting.**