



U.S.NRC

UNITED STATES NUCLEAR REGULATORY COMMISSION

Protecting People and the Environment

Nuclear Industry Check Valve Regulatory Activities

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ASME OM Code Check Valve Subgroup / NIC Meeting

June 2013

Current NRC Activities

- 10 CFR 50.55a Rulemaking
- Regulatory Guide (RG) Update – OM Code Case Acceptability
- Temporary Instruction Procedure TI 2515/189 for Snubbers
- NUREG-1482 Revision 2, “Guidelines for Inservice Testing at Nuclear Power Plants”
- Browns Ferry Unit 1 MOV failure - Update
- Follow up to Generic Letter (GL) 96-05 “Periodic Verification of Motor-Operated Valves (MOV)” – Update
- Information Notice “Potential Design Deficiency in Motor-Operated Valve Control Circuitry”
- Risk Informing Special Treatment Requirements of 10 CFR 50.69
- ASME Related Generic Communications issued
- Generic Communications Database

10 CFR 50.55a Rulemaking

- Rulemaking published June 21, 2011 10 CFR 50.55a incorporates by reference:
 - 2004 Edition, 2005 and 2006 Addenda of the ASME OM Code
 - 2005 Addenda thru 2008a Edition of ASME Boiler and Pressure Vessel Code Section XI
 - 2004 Edition thru 2008 Addenda of the ASME Section III
- NRC staff currently reviewing 2009 Edition thru 2012 Edition of ASME OM Code which is currently scheduled for public comment in June 2014
- NRC staff is planning to add a condition to endorse Code Case OMN-20

Reg Guide 1.192 Operation and Maintenance Code Case Acceptability, ASME OM Code

- Regulatory guide lists OM Code Cases that are acceptable to the NRC for implementation in the Inservice Test (IST) of light-water-cooled nuclear power plants
- Revision 1 to RG 1.192 (NRC approval of ASME OM Code Cases, 2002-2006 Edition / Addenda) – in final stages of approval, current scheduled to be issued for public comment June 2013

Temporary Instruction Procedure for Snubbers TI 2515/189

- Licensees should have snubber program reviewed as described in EGM 2010-01 and clarified by RIS 2010-06 by December 1, 2011
- Licensee should have corrected any noncompliance with snubber program by June 1, 2012 or submit relief request
- NRC developed a draft Temporary Instruction Procedure – TI 2515/189 to review licensee compliance with 10 CFR 50.55a and ASME Code requirements. The NRC plans to issue TI 2515/189 in the third calendar quarter of 2013

NUREG-1482 Revision 2 Guidelines for Inservice Testing at Nuclear Power Plants

- Replaces NUREG-1482 Revision 1 – It will maintain the same format and structure
- NRC staff has prepared responses to all public comments and incorporating as appropriate
- All new sections will have new section numbers
- Appendix A has been added to describe snubber inservice examination and testing program and issues
- NRC is planning to issue NUREG 1482 Revision 2 in third quarter of 2013

Browns Ferry MOV Failure - Update

- Result of NRC Special Inspection:
 - MOV should have been in GL 89-10 scope
 - Augmented testing did not have acceptance criteria as required by Criterion V of Appendix B
 - ASME OM Code not clear on remote valve position verification and obturator movement
 - Inadequate application of industry test data
- ISTA/ISTC task group proposed changes for review in Fall of 2012. Comments have been incorporated and is out for 1st consideration ballot

Follow Up to GL 96-05 Periodic Verification of Motor-Operated Valves (MOVs) - Update

- RIS 2011-13 “Follow up to Generic Letter 96-05 for Evaluation of Class D Valves Under Joint Owners Group Motor-Operated Valve Periodic Verification Program” issued on 1/6/2012
- RIS provided guidance to industry for addressing Class D valves
- Plants committed to Joint Owners Group (JOG) program should have completed full implementation of program by 9/25/2012
- NRC inspection procedure IP 62708 is currently being updated to incorporate JOG program attributes
- IP 62708 is available on the public web site



Information Notice “Potential Design Deficiency in Motor-Operated Valve Control Circuitry”

- NRC staff is currently developing a Information Notice (IN) on a potential control circuit design used on motor-operated valves
- Circuit design involves the use of limit switches for controlling valve movement.
- The control circuitry deficiency was noted by Limerick Generating Station Units 1 & 2 during a self assessment

Risk-Informing Special Treatment Requirements of 10 CFR 50.69

- 10 CFR 50.69 Alternative Treatment Inspection Procedure was issued 9/14/2011
- Procedure focuses on the most risk significant aspects of implementation of 10 CFR 50.69
- Inspections will be performance based
- Procedure is being revised to incorporate industry and NEI comments
- Revision is scheduled for the 2nd quarter of 2013

ASME Related Generic Communications Issued

- Bulletins
None
- Generic Letters
None
- Regulatory Issue Summaries
 - RIS 2013-07 - NRC Staff Position on the Use of American Society of Mechanical Engineers Certification Mark
 - RIS 2013-05 - NRC Position on the Relationship Between General Design Criteria and Technical Specification Operability
 - RIS 2013-02 – Impact of Sequestration on NRC Activities and NRC Stakeholders
 - RIS 2012-12 - Licensing Submittal Information and Design Development Activities for Small Modular Reactor Designs



ASME Related Generic Communications Issued

- Information Notices
 - IN 2013-06 – Corrosion in Fire Protection Piping Due to Air and Water Interaction
 - IN 2013-05 – Battery Expected Life and its Potential Impact on Surveillance Requirements

Generic Communications Database

- Generic Communication database is a compilation of all:
 - Bulletins
 - Generic Communications
 - Information Notices
 - Regulatory Issue Summaries
 - Circulars
- Database has pre-canned reports on pumps, valves, IST, EDG, snubbers/restraints
- Database has a report with key word in title search feature
- Database includes hyperlink to all communications

QUESTIONS?

Future Questions

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