



U.S. NRC

UNITED STATES NUCLEAR REGULATORY COMMISSION

Protecting People and the Environment

Nuclear Industry Check Valve Regulatory Activities

Michael F. Farnan

Component Performance, NDE & Testing Branch

Division of Engineering

Office of Nuclear Reactor Regulation

U.S. Nuclear Regulatory Commission

ASME OM Code Check Valve Subgroup / NIC Meeting

June 2014



Current NRC Activities

- 10 CFR 50.55a Rulemaking
- Regulatory Guide (RG) Update – OM Code Case Acceptability
- Temporary Instruction Procedure TI 2515/189 for Snubbers
- Browns Ferry Unit 1 MOV failure – Update
- 12th NRC/ASME Symposium on Valves, Pumps, and Inservice Testing for Operating and New Reactors
- ASME Related Generic Communications issued
- Generic Communications on the NRC Public Web Site
- New Plant Status



10 CFR 50.55a Rulemaking

- Currently reviewing ASME OM Code 2009 Edition, 2011 Addenda, and 2012 Edition for next rule making
- Scheduled to be published and issued for public comment September 2014
- NRC staff plans to add a condition endorsing the usage of Code Case OMN-20, “Inservice Test Frequency”, without requiring NRC approval
- Final rulemaking scheduled to be published September 2015



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 (ASME OM Code Cases, 2002-2006 Edition / Addenda) – Public comment June 2013, final scheduled to be issued August 2014
- Revision 2 to RG 1.192 (ASME OM Code Cases, 2009-2012 Edition / Addenda) – scheduled to be issued following incorporation 2009 Edition, 2011 Addenda and 2012 Edition into 10 CFR 50.55a



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 issued Temporary Instruction Procedure – TI 2515/189 to review licensee compliance with 10 CFR 50.55a and ASME Code requirements
- TI 2515/189 requires that each NRC Region select a minimum of two sites for this inspection
- Inspection to be completed by December 31, 2014



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



Browns Ferry MOV Failure - Update

- ISTA/ISTC task group proposed changes for review in Fall of 2012. Comments were incorporated & proposed change sent to ASME OM main committee. This was disapproved. ISTA/ISTC task group and NRC staff continue to work on this issue
- MOV subgroup also addressing Mandatory Appendix III to add guidance on verifying obturator movement



12th NRC/ASME Symposium on Valves, Pumps, and Inservice Testing for Operating and New Reactors

- June 23 – 25, 2014 in Rockville, Maryland at Bethesda North Marriott Hotel and Conference Center
- Venue for exchange of information on technical, programmatic, and regulatory issues associated with valves, pumps, and IST of pumps, valves and dynamic restraints



ASME Related Generic Communications Issued

- Bulletins
None
- Generic Letters
None
- Regulatory Issue Summaries
None
- Information Notices
 - IN 2013-14 – Potential Design Deficiency in Motor-Operated Valve Control Circuitry



ASME Related Generic Communications Issued

- Information Notices
 - IN 2014-02 – Failure To Properly Pressure Test Reactor Vessel Flange Leak-Off Lines
 - IN 2014-03 – Turbine-Driven Auxiliary Feedwater Pump Overspeed Trip Mechanism Issues
 - IN 2014-04 – Potential for Teflon® Material Degradation in Containment Penetrations, Mechanical Seals and Other Components

Finding Generic Communications On The Web

Web-based ADAMS

Folder View | Content Search | **Advanced Search**

Save query | Load query | Clear query | Switch to Edit mode

Query: New Search

- Libraries:

Public Library
 Public Legacy Library

- Options:

added this month
 added today
 within folder: Browse
 include sub-folders

- Document Properties:

Matching **all** criteria of group

Property	Operator	Value	
Document Title	contains	motor operated valve	X
Click here to select			

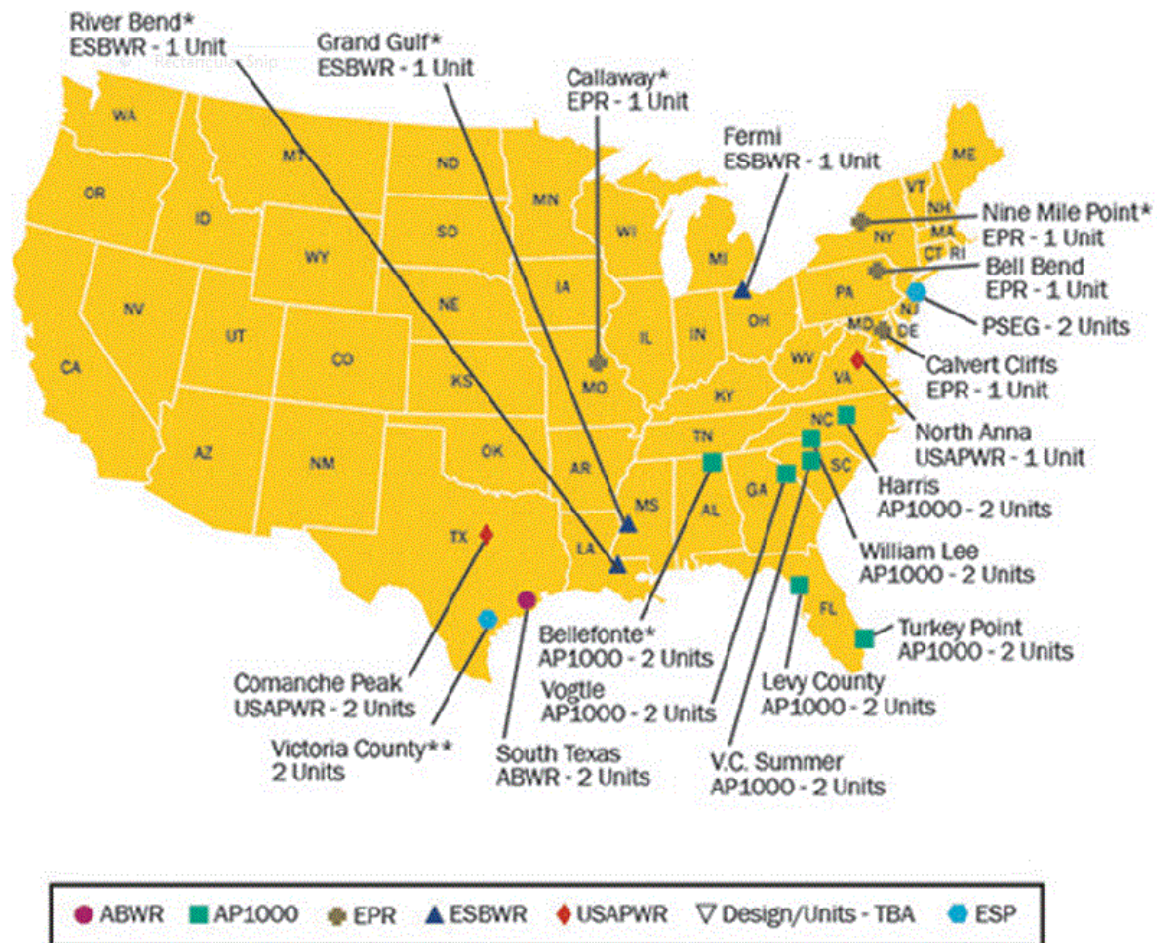
- More options:

Matching **any** criteria of group

Property	Operator	Value	
Document Type	is equal to	NRC Bulletin	X
Document Type	is equal to	NRC Generic Letter	X
Document Type	is equal to	NRC INFORMATION NOTICE	X
Document Type	is equal to	NRC Regulatory Issue Summary	X
Click here to select			

Location of Projected New Nuclear Power Reactors

For applications that have been received by the NRC, you may select a site name to view the NRC's website for the specific COL application. Websites for the remainder of the applications will be created when they are received.





COL Application Status

Plant	COL Status	Plant	COL Status
Bell Bend Nuclear Power Plant	Under Review	North Anna Unit 3	Under Review
Bellefonte Nuclear Units 3 & 4	Suspended	River Bend Unit 3	Suspended
Callaway Unit 2	Suspended	Shearon Harris Units 2 & 3	Suspended
Calvert Cliffs Unit 3	Under Review	South Texas Project Units 3 & 4	Under Review
Comanche Peak Units 3 & 4*	Under Review	Turkey Point Units 6 & 7	Under Review
Fermi Unit 3	Under Review	Victoria County Units 1 & 2	Suspended
Grand Gulf Unit 3	Suspended	V. C. Summer Units 2 & 3	Issued
Levy County Units 1 & 2	Under Review	Vogtle Units 3 and 4	Issued
Nine Mile Point Unit 3	Withdrawn	William States Lee III Units 1 & 2	Under Review

* Luminant Generation Company requested NRC on 11/7/2013 to suspend all reviews associated with COL 3/31/2014



QUESTIONS?

Future Questions

Michael.Farnan@nrc.gov

301-415-1486