

# OM CODE SUMMARY

## December 2008

### (Clearwater Beach, Fla.)

ISTOG Meeting January 2009

# SCOMC

- Discussion on Operable/Inoperable vs. Operational Readiness
- Discussion regarding OM-16 DGs/New DGs
- Code Cases are going to be incorporated into OM Code ASAP.
- Revisions are going to be designated as "OMN-1-1" for revision 1 for clarification.

# SCOMC

- Interfacing with the OM-19 Sub-group to “expedite” approval of Appendix IV.
- Determined that the SCOMC SHALL maintain “Balance of Interest” as a result of Code Inquiries. This must also be maintained in other cases of voting (e.g. voice vote).

# SCOMC

## Code Inquiries

### ■ Process being established

- OM Secretary receives an inquiry.
- Secretary forwards to OMMC and SCOMC Chairs (they review to determine if inquiry should be processed any further).
- If additional processing is not needed, Secretary sends letter to inquirer.
- If inquiry is to be processed further, Chair & V Chair of SCOMC and Chair of affected SG consult to select members of a Special Committee in accordance with Section B, 13.1.1, of the MOM.

# SCOMC

## Code Inquiries

### ■ Process being established

- SG Chair coordinates response development (or determines necessary course of action, with committee member input).
- Special Committee reviews and approves inquiry response.
- OM Secretary sends inquiry ballot to SCOMC with a 2-week review period.
- When approved, OM Secretary sends completed inquiry response to OMMC Chair for issue to inquirer.

# ISTA Subgroup

## ISTA—General Requirements

- New Chairman – Scott Seman (Perry)
- Discussion on the incorporation of OMN-1 into the Code as ISTC Appendix III.
- Discussion on Valve Position Indication clarification.

# ISTA Subgroup

## ISTA—New Actions

- Define/Discuss Preconditioning (acceptable and unacceptable) and place in Code
- Evaluate the term “operable”/“Inoperable” and either clarify or provide definition when used.
- ISTD changes to ISTA sections.

# ISTA Subgroup

## ISTA—New Actions

- Discussed ISTA-3120 and ISTA-3130 with regard to Snubber (ISTD testing).

# ISTC Subgroup

## ISTC-Valves

- Appendix I and ADS valve test schemes is working.
- OMN-8 is being revised for applicability and being incorporated into OM Code, ISTC-5100. OMN-8 has been approved by ASME in early 2006. Should be in 2008 edition/2009 edition.

# ISTC Subgroup

## ISTC-Valves

- Appendix IV (AOVs)—Not Approved.-Working to resolve issues. Working with AUG.
  - Risk Informing AOVs
  - Acceptance Criteria
  - Standardization of Requirements
  - HOVs will not be included initially
  - Methods of “evaluating” AOV condition – Stroke Timing and diagnostics.
- OMN-8 is being revised for applicability and being incorporated into OM Code, ISTC-5100. OMN-8 should be approved by ASME in early 2006. Should be in 2008 edition.

# ISTB Subgroup

## ISTB-Pumps

- Revision to ISTB-6200 to provide clarification for use of Alert Range Analysis Requirements. Should be approved 2008. Should be in 2009 addenda.
- Pump Design Flow Rate, being redefined as Comprehensive Pump Test Flow Rate (P03-02). Still NOT fully acceptable. Proposed use CPT Flowrate and require additional "periodic verification" test if CPT is NOT greater than "maximum design bases accident flow"

# ISTB Subgroup

## ISTB-Pumps

- Comprehensive Pump Test Substitution, regarding the use of a Group A test in lieu of CPT, using ONLY installed instruments (provided that the instruments satisfy the IST requirements for 0.5%% tolerance and 3 times ref value or less for Range, and that the Group A test is performed at the CPT value. – Code Case OMN-18
- To change the 103% upper limit for the pump acceptance criteria to 106% for “required action”.

# ISTB Subgroup

## ISTB-Pumps

- Question on the requirements for a Group B Pump Test?
  - Bump Test?
  - Modified Group A Test?

Still being discussed. ASME and ISTOG are evaluating industry input to determine the next step.

# Appendix I Subgroup

## Appendix I—Safety and Relief Valves

- Code Cases OMN-2, 5, and 14 being incorporated into OM Code and will be deleted.
  - OMN-2—Thermal Relief Valves
  - OMN-5—Testing of Liquid RVs without insulation
  - OMN-14—BWR CRD Rupture Disk exclusion from Appendix I.

Extension of RV testing greater than 5 years for Class 1/MSSVs—Looking at 6 years +/- 6 months frequency. Maintenance requirements will be added to Appendix I which will permit this.

# Appendix I Subgroup

## Appendix I—Safety and Relief Valves

- Range of Ambient Temperature Consideration in lieu of one ambient temperature for testing.
- Alternative to IST Plan “grouping” of RVs . Code Case to track by serial number.

# MOV/AOV Subgroups

## OM-8---MOV<sub>s</sub>

- OMN-1 incorporation into Appendix III of the OM Code is approved. – Should be in the 2008 Edition of the Code.
- 10 sites currently implementing OMN-1, Revision 0.
- 6 sites pending/implementing OMN-1, Revision 1.

# MOV/AOV Subgroups

## OM-19---AOVs

- It was determined to have the OM SC “assist” the OM-19 group in this endeavor.
- Code Case to be incorporated into OM Code as Appendix IV. 2010? -- Areas of scope, acceptance criteria, guidance and risk sited as concerns.

# ISTD Subgroup

## ISTD---Snubbers

- Preparation for approval of Code Case OMN-13 -- Approved
- Discussion on “promotion” of the use of the ISTD and Code Cases for snubber testing. NRC exhibited “favorable” position of stations using ISTD and Code Cases, in lieu of Technical Specifications.

# ISTE Subgroup

## ISTE---RI-IST

- Essentially ISTE will become a new subsection of the Code. ISTE essentially will provide a “pointer” to the Code Cases (Appendices) regarding RI-IST methodology, as the sections and Code Cases are approved and endorsed by the NRC.
- ISTE should be issued as a new subsection by 2008 edition.
- Based upon comments received will probably be incorporated into 2008 edition of the OM Code.

# ISTE Subgroup

## ISTE---RI-IST

- Working on Revision 1. Should be approved and out for Ballot in early 2009.
- Emphasis on Scope being NOT limited to Class 1, 2 or 3.

# Check Valve Subgroup

## OM-22---Check Valves

- Discussions regarding disassembly and Inspection of CVs during Power Ops. Primarily now, NRC “encourages” the use of CV Condition Monitoring for the “online D&I.”
- CV CMP guidance on using “historical data.” Some confusion exists as to if and when you can use “existing” historical CV data to implement the Appendix II CV Condition Monitoring. This would be a “clarification” of the Code.
- Instrumentation Accuracy for CV Testing
- Training for NIT for CVs

# Liaison Reports

## Liaisons—NRC

- Much discussion involving NRC “re-organization” many “IST folks” (Lee, Scarborough, etc...), may be move to new reactor division resulting in many new “faces” in the NRC and IST world.
- 10 CFR 50.53—RI-IST Final Rule out for Public Comment.
- OM Code 2004 endorsed in FR in October 2008.
- RG 1.193 Rev. 2 issued in October 2007.
- 1.193 revision 3 working – Sept 2009?

# Liaison Reports

## ■ Liaisons—NRC

- NRC has begun a Lean Six Sigma Project to improve timeliness of rulemaking to incorporate future editions/addenda of ASME Codes in 50.55a.
  - 2 years
  - Working on 2005/2006 addenda for OM Code
  - Working on 2005 addenda thru 2007 edition of Section XI and III.

## ■ **Next rulemaking schedule to complete in Fall 2010**

# Liaison Reports

## Liaisons—NRC

- RG 1.192 will be revised on an “as required” basis when Code Cases have been revised or changes to “applicability” have been made and approved by ASME...and Included in the revised ASME OM Codes. – Possible revision to RG 1.192 in 2009.

# Liaison Reports

## Liaisons—NRC

- 10 CFR 50.69 – Risk-Informing Special Treatment Requirements – Approved:
  - Reg Guide 1.201 – Guidelines for Categorizing SSCs – January 2006.
  - One Pilot Plant (WC)
  - No FLCs submitted to NRC to implement

# Liaison Reports

## Liaisons—NRC

- Generic Communications
  - IN 2008-01 – Gas Intrusion
  - GL 2007-01 – Inaccessible or Underground Power Cable Failures that Disable Accident Mitigation Systems or Cause Plant Transients.

# Liaison Reports

## Liaisons—NRC

- Generic Communication:
  - IN 2008-13, Main Feedwater System Issues and Related 2007 Reactor Trip Data.
  - IN 2008-20, Failures of MOV Actuator Motors with Magnesium Alloy Rotors.
  - IN 2009-xxxx – Biodiesel in Fuel Oil Could Adversely Impact Diesel Engine Performance.

# Liaison Reports

## Liaisons—NRC

- 10<sup>th</sup> ASME/NRC P&V Symposium
  - 250 attendees
  - July 14-16, 2008
- 11<sup>th</sup> ASME/NRC Symposium
  - May be shortened to 2 days
  - May have change of location/format

# Pump Performance Task Group

## Pump Performance

- Looking at moving pump testing to 6 months using more “comprehensive tests/exams (e.g. oil analyses, spectral analysis for vibration).
- Various discussions on pump performance testing which will eventually be incorporated into the Code (ISTB).

# RISC-3 Task Group

## RISC 3—Low Safety Significant

- Discussions on testing/examinations required to be performed on Low Safety Significant Components/Systems.
- Trying to satisfy the requirements of 10 CFR 50.69 regarding test/examinations required for RISC-3 components (Low Safety Significant components).
- Discussion on applicability of various tests/examinations. Expect first deliverables in 2007 edition of OM Code.

# Miscellaneous

- Discussion regarding adoption of ASME/OM Codes in the world (Japan, Spain, China, Europe, UK).
- Presentation from Japan regarding Earthquake in Niigata-Chuetsu-Oki July 16, 2007
  - Kashiwazaki-Kariwa NPS
  - 7 Units 8,212 MWe
  - Units 1-5 – 1100MWe BWRs
  - Units 6, 7 – 1356 MWe ABWRs

# Miscellaneous

- 6.8 on Richter Scale
- Distance from Plants – 17Km
- Maximum acceleration exceeded Design Value
- Off site power was maintained
- Fire in Unit 3 House Transformer
- No Containment Damage

# Miscellaneous

- 7 Units Off-Line (3 in Outage, 4 S/D)
- Exceeded DBE analyses –Caused several fires, minimum radioactive leakage, foundational damage observed, No damage identified in SSCs.
- Impact on Capacity Factor – Original for FY 2007 – 72%  
After quake – 45%
- Tokyo Electric Website for information is [www.tepco.co.jp/en/index-e.html](http://www.tepco.co.jp/en/index-e.html)

# Miscellaneous

- Next OM Code meeting in June 2009 in Colorado Springs(6/15 – 6/19)
- Winter 2009 Code meeting to be in Clearwater or St. Petersburg Fla. In December (12/8 – 12/11) 2009.
- Summer 2010 Code Meeting to be in Washington DC – (July 2010) with ASME/NRC P&V Symposium
- Winter 2010 Code Meeting to be in Florida (12/10).

# Questions?