

**NUPIC General Membership Meeting
And Lead Auditor Conference**

February 2017

NRC Vendor Inspection Update

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Office of New Reactors

AGENDA

- Update on initiatives
- Recent NRC vendor inspections
- Specific inspection insights
- Questions

UPDATES

Topics

- Regulatory Guide 1.231 (Software-CGD) - **Issued**
- Draft DG-1326 (RG 1.28 update)
- Draft DG-1291 (Part 21 reporting guidance) - working its way through internal concurrence.
- Draft DG-1292 (Use of EPRI-5652, Rev 1 for CGD) - Public comments have been addressed and submitted for OGC and ACRS review
- SONGS Lessons-Learned Pilot Inspections
- Communication initiatives

UPDATES

Regulatory Guide 1.231

- First software-specific CGD Guidance
 - Design and analysis computer programs
 - Non-process computer programs
- History:
 - Revision 1 of EPRI 1025243
 - Draft Regulatory Guide 1305
 - RG 1.231 has been issued (January 2017)

UPDATES

All the Draft DGs

- Draft DG-1326:
 - Update of RG 1.28, Rev 4 (NQA-1-2008 with 2009a)
 - Use of NQA-1-2011b, 2012, and 2015
 - Should be put into concurrence for public comment in the near future
- Draft DG-1291:
 - Accepts NEI 14-09, Rev 1 for Part 21 reporting
 - working its way through internal concurrence
- Draft DG-1292:
 - Accepts EPRI NP-5652 / TR-102260, Rev 1 (aka - EPRI 3002002982) for CGD
 - Proposed regulatory positions
 - Public comments have been addressed and submitted for OGC and ACRS review

UPDATES

Major plant mod pilot

- Recommendation from SONGS Lessons Learned
- Five pilot design-aspect vendor inspections
- First inspection – ENSA April 2016
 - Design and fabrication of Steam Generators
 - 3 findings (Criterion III, IX and VII)
- Second Inspection identified (Electrical/ I&C not yet scheduled)

VENDOR INSPECTIONS

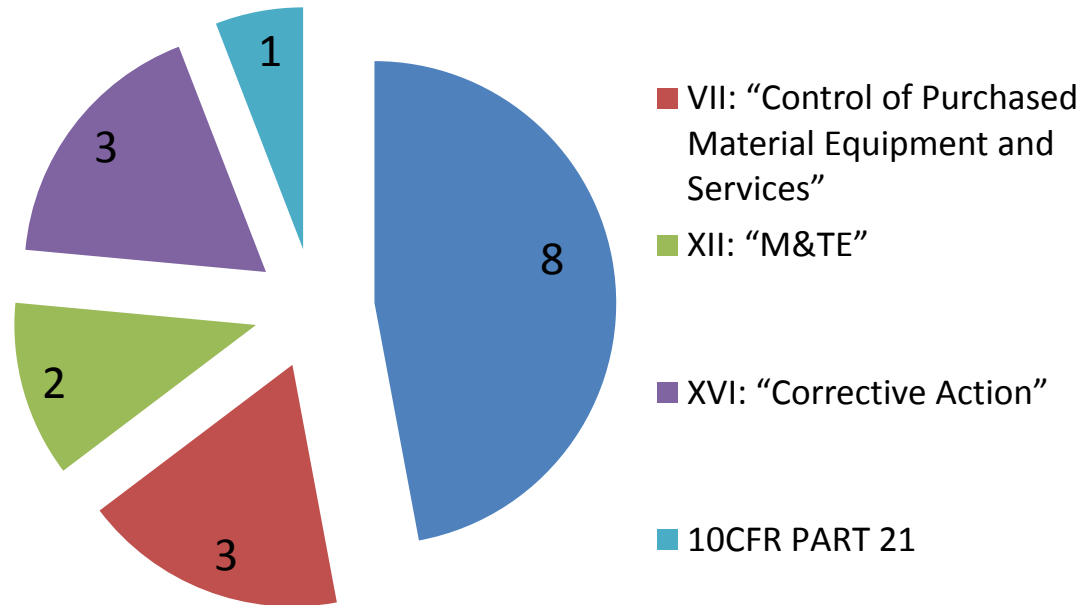
- Aecon, Cambridge ON Canada – July 2016*
- Paxton-Vierling, Carter Lake, IA – September 2016*
- Westinghouse Electric Company, Cranberry, PA – September 2016*
- General Atomics, San Diego, CA – September 2016*
- AZZ/NLI, Fort Worth, TX – September 2016*
- Pentair, Mansfield, MA – October 2016*
- Westinghouse Electric Company, Warrendale, PA – October 2016*
- Curtiss-Wright, Cheswick, PA – November 2016*
- Enercon, Kennesaw, GA – November 2016
- SAFER PEI Co, Phoenix, AZ – November 2016 (NSR)



* AP-1000 testing, design, or fabrication
^ Major Mod pilot inspection
Released Reports (inspection date)

INSPECTION RESULTS

Findings



INSPECTION RESULTS

Inspection insights

- Continued identification in NRC inspections:
 - Design Specification deficiencies
 - CGD deficiencies
 - Lack of sub-supplier oversight*
 - Corrective actions / Part 21 deficiencies
- Thoroughness of vendor corrective actions

UPDATES

Communications

Annual vendor newsletter:

<http://www.nrc.gov/reactors/new-reactors/oversight/quality-assurance/vendor-insp/vendor-newsletters.html>

Quality Assurance FAQ:

<http://www.nrc.gov/reactors/new-reactors/oversight/quality-assurance/qual-assure-faqs.html>

Categories of Notice of Nonconformance (NON) or Notice of Violation (NOV):

<http://www.nrc.gov/reactors/new-reactors/oversight/quality-assurance/nonconformances-violations.html>

Vendor Inspection Program (VIP) Plan:

<http://www.nrc.gov/reactors/new-reactors/oversight/quality-assurance/vendor-insp/vendor-insp-program.html>



NRC QA website:

<http://www.nrc.gov/reactors/new-reactors/oversight/quality-assurance.html>

UPDATES

Communications

Vendor inspection information:

<http://www.nrc.gov/reactors/new-reactors/oversight/quality-assurance/vendor-insp.html>

NRC Vendor Workshops:

<http://www.nrc.gov/reactors/new-reactors/oversight/quality-assurance/vendor-oversight.html>

Trip reports issued for the NUPIC audit observations:

<http://www.nrc.gov/reactors/new-reactors/oversight/quality-assurance/nupic-industry.html>

Advanced reactors and small modular reactors:

<http://www.nrc.gov/reactors/advanced.html>

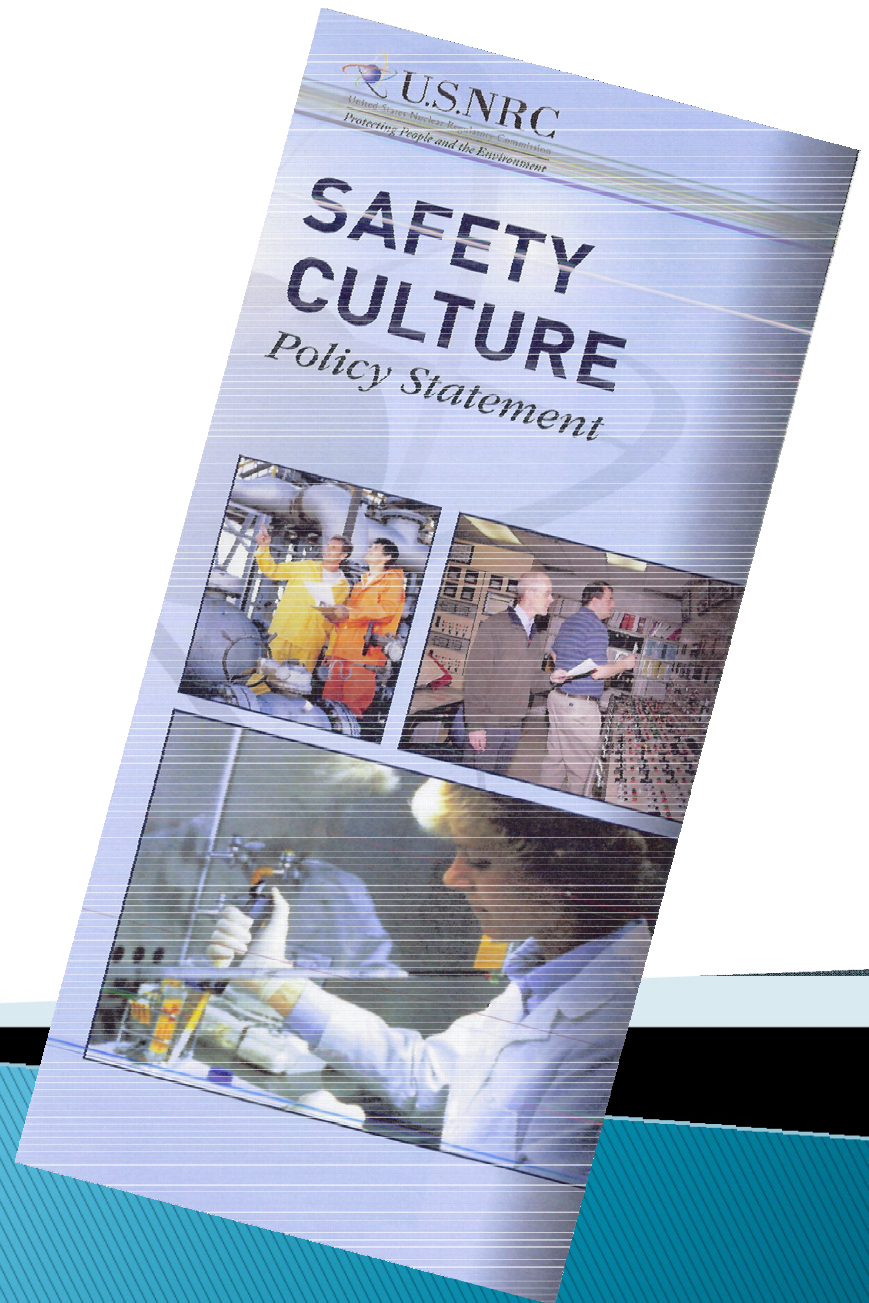


NRC QA website:

<http://www.nrc.gov/reactors/new-reactors/oversight/quality-assurance.html>

The Commission defines **nuclear safety culture** as the core values and behaviors resulting from a collective commitment by leaders and individuals to emphasize safety over competing goals to ensure protection of people and the environment.

NUREG/BR-0500, Rev. 3, March 2015



Questions

