

NUPIC General Membership Meeting

October 2013

NRC Inspection Update

Rich McIntyre
Mechanical Vendor Inspection Branch
Office of New Reactors
U.S. NRC



OUTLINE

- ✓ 2013 NRC Vendor Inspections
- ✓ Recent Inspection Results
- ✓ Update on New inspection initiatives
- ✓ A plug for Safety Culture



Recent NRC Vendor Inspections

- Westinghouse – 6/13, 6/14*, & 6/24
- General Atomics ESI – 6/28
- B&W Canada – 7/16
- QualTech NP - 7/29
- Weed Instruments dba Ultra Electronics – 7/31
- IBF S.p.A. - 7/31*
- Pentair Valves and Controls – 8/20*
- Mitsubishi Heavy Industries – 9/20
- Chicago Bridge & Iron (formerly BF Shaw)
- Ametek Solidstate Controls
- ATC Nuclear
- AREVA
- Newport News Industrial (NNI) *
- SPX Copes Vulcan



* AP-1000 testing, design, or fabrication

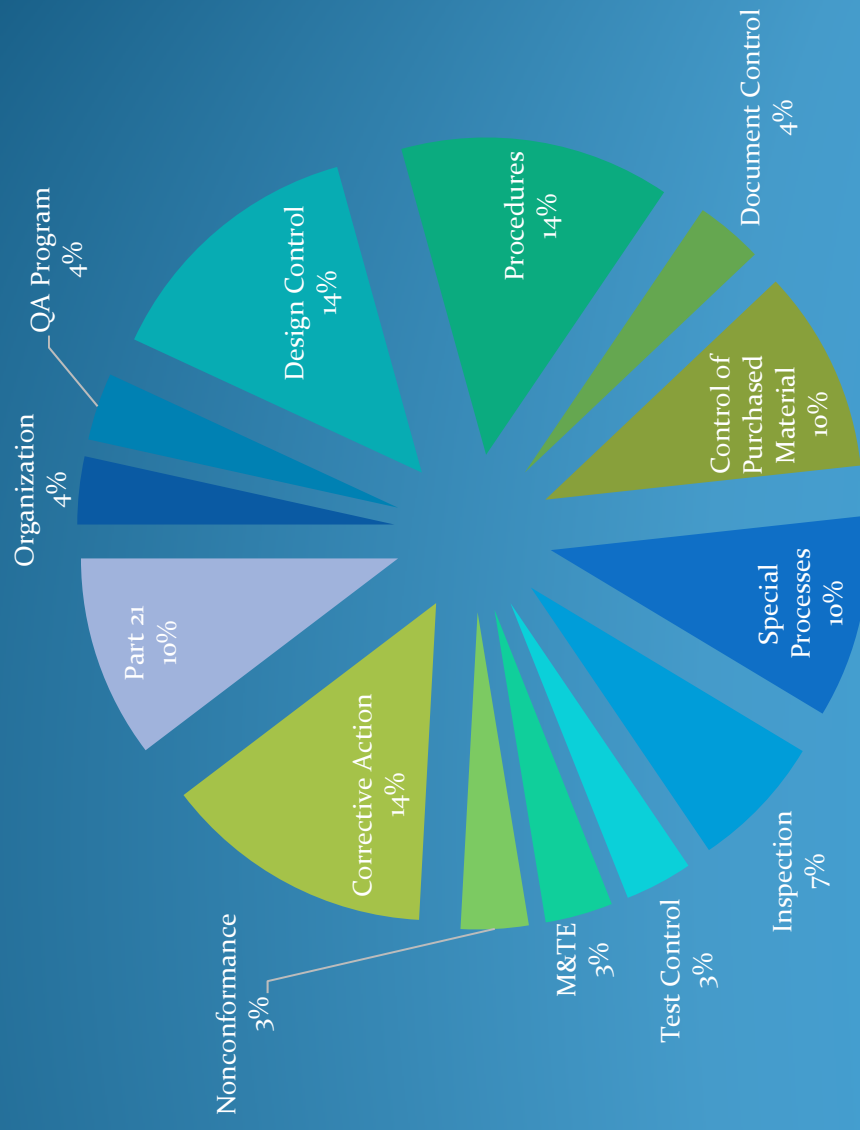
RELEASED REPORTS



Recent Inspection Results



Recent NOVs and NONs



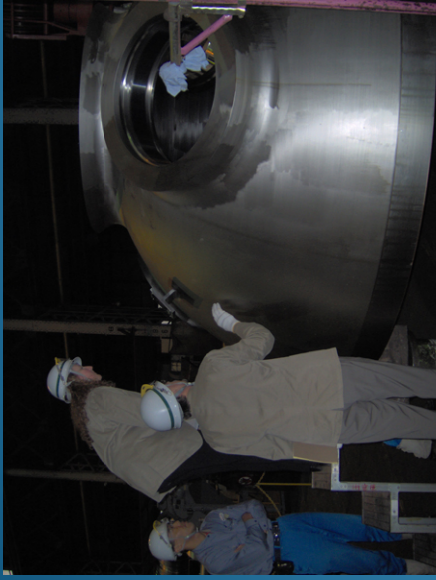
United States Nuclear Regulatory Commission

Protecting People and the Environment

Recent Inspection Results

Most Common issues:

- ✓ Design Control (Dedication)
- ✓ Control of Purchased Material, Equipment, and Services (Supplier Control)
- ✓ Instruction, Procedures, Drawings
- ✓ Special Processes
- ✓ Corrective Actions
- ✓ Part 21



United States Nuclear Regulatory Commission

Protecting People and the Environment

Summary:

NRC is performing technically-focused performance based inspections of vendors that evaluate the detailed design, procurement, fabrication, and testing of SR SSCs. Staff continues to identify issues associated with implementation of vendors QA programs.

Recent results indicate findings more broadly spread among QA Criteria and a more noticeable leveling of findings.

NEW Initiatives Update

Procurement & CGI Dedication

NRC Vendor Inspections identify commercial grade dedication (CGD) issues at many of the vendors inspected

In FY 2012, 27 vendor inspections were conducted with 60 findings. 40% off those dealt with CGD issues

Proposed Inspection:

The inspection will be conducted using new Inspection Procedure IP 43004 “Inspection of Commercial Grade Dedication Programs”, which is in the final stages of revision to integrate IP 38703, the procedure currently used for CGD inspections at licensee facilities.

The inspection will be conducted by three to four inspectors for one week at the plant site.

Site Selection:

The first inspection is scheduled for the Oconee site during the week of December 9-13 .



NEW Initiatives Update

CGID and Software Dedication

EPRI 5652: (NP-5652 + TR 102260)

May 2013 – NRC participated in 6th CGID guidance revision technical advisory committee (TAG) meeting – Charlotte, NC

- Address areas needing additional content
- Perform initial review of working drafts
- Identify Key EPC issues for inclusion

Continuing discussion and table development comparing/contrasting design and manufacture under 10 CFR Part 50 Appendix B with commercial-grade item dedication.

EPRI 1025243 - Software

- July 2012 – Received NEI letter and submittal
- February 2013 – NRC issued 6 RAIs
- May 2013 – Met with EPRI to discuss status. EPRI to create new document number for revised guidance
- Current – NRC developing Draft RG 1305 to endorse guideline should be completed in late 2013 or early 2014



United States Nuclear Regulatory Commission

Protecting People and the Environment



NEW Initiatives Update

Regulatory Guidance Activities

Regulatory Guide (RG) 1.33, Revision 3, “Quality Assurance Program Requirements (Operations)”

Endorses 2012 edition of ANSI/ANS-3.2-2012, “Managerial, Administrative, and Quality Assurance Controls for Operational Phase of Nuclear Power Plants,” and was issued in final **June 2013**. Revision 2 to Regulatory Guide 1.33 was dated February 1978.

The ANS-3.2 standard has changed its format to more closely align with the latest version of NQA-1 and to reduce duplicative requirements

REMEMBER ---- RG-1.28, Revision 4, issued July 2010

Part I and Part II requirements of ASME NQA-1-2008/2009 Addenda, “Quality Assurance Requirements for Nuclear Facility Applications,” provide an adequate basis for complying with Appendix B requirements.

A clear delineation of quality assurance requirements is now available for the new generation of plants as well as for consideration of existing licensees who may want to migrate to a consistent set of requirements for their fleet of reactors within their company.



NEW Initiatives Update

Communication Outreach

<http://nrcweb.nrc.gov:400/reactors/new-reactors/oversight/quality-assurance/vendor-insp.html>

2012 Annual Vendor Newsletter is now available on our public website at the below link. Topics of interest include news on the 10 CFR Part 21 rulemaking activities, Counterfeit, Fraudulent, and Suspect Items (CFSI), commercially procured software dedication, and vendor inspection finding data.

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

The Frequently Asked Questions FAQ page addresses Quality Assurance for New Reactors and currently has three main categories: 10 CFR Part 21 FAQs, Commercial Grade Dedication FAQs, and Enforcement FAQs.

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

This page is to serve as a categorization tool and provides a list of all applicable QA Inspections for New Reactor Licensing and Vendor QA Inspection reports that have either a Notice of Nonconformance (NON) or Notice of Violation (NOV) within a specific criterion of 10 CFR 50 Appendix B or 10 CFR Part 21 related issue.

<http://pbadupws.nrc.gov/docs/ML1200/ML12006Aon8.pdf>

This link describes the vendor inspection program (VIP).



A Plug for Safety Culture

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.⁽¹⁾

Recent issuance of Chilling Effect Letter and proposed Imposition of Civil Penalty to CB&I (Formerly Shaw Power Group) for two violations of 10 CFR 52.5 “Employee Protection.”

Based on the conclusion that portions of the SMS workforce, especially employees with nuclear and quality control backgrounds have the perception that they were not free to raise safety concerns using all available avenues. (2)

(1) <http://www.nrc.gov/about-nrc/regulatory/enforcement/safety-culture.html>

(2) ADAMs Accession number - ML13092A077



Questions

