# *ASME NQA-1 Liaison Report*

*Nissen M. Burstein*
*Technical Consultant*

**Presented at SC-2, Meeting 11-01**

**June 15-17, 2011, Gothenburg, Sweden**

# General Information

- **Member of NQA SC I&A WG; IEEE Liaison**
  - **NQA Standards Committee, Individual Member**
  - **Interface & Administration Working Group**
  - **Can vote, but does not have to be resolved**
  - **Received 5 year appointment, from Nov 2009 until June 2014**
  - **Have been granted access to ASME C&S Connect site, for balloting, training, notices, etc.**
  - **Have been provided formal training on SC/WG Guidelines**

# Task Assignment

- **Task originally assigned in 2008**
  - **Scope of Task: To review and compare the IAEA GS-R-3, "The Management System for Facilities and Activities" safety series standard with ASME NQA-1- 2008/9, "Quality Assurance Requirements for Nuclear Facility Applications". This review will produce a side-by-side comparison of the two standards to facilitate the development of a new SubPart 4 application.**
  - **NQA SC ballot was completed, closed 11/03/09, and passed**
  - **BNCS Ballot was completed, closed 3/9/10, and passed**
  - **Secretary directed to prepare for publishing for 2010 Addenda**

# Ballot Statement

- **The following was the proposed ballot statement to the NQA Standards Committee:**
  - **Subject: SubPart 4.X "Application Guide on the Comparison of NQA-1-2008/NQA-1a-2009, and IAEA Safety Standard GS-R-3"**
  - **Proposal: To review and compare GS-R-3 with NQA-1-2008/1a-2009, and develop a new SubPart 4.X. This version of the GS-R-3 was last issued in July 2006 to replace IEAE 50-C-Q.**
  - **This review produced a side-by-side comparison of the two standards. A new SubPart 4.7 application was developed.**
  - **This comparison is provided as an attachment to this presentation.**

# Issuance and Highlights of the Guide

- **Issued as Pages 216.1 – 216.21, of SubPart 4.7, of the 9th Edition of NQA-1, published as part of NQA-1b-2011, on 1/4/2011.**
- **Included in Part IV, SubPart 4.7, of NQA-1b-2011; Non-mandatory Appendices: Positions and Applications Matrices**

## HIGHLIGHTS

- **100 Purpose and Scope; the comparisons are illustrated from two perspectives;**
  - **(a) how IAEA GS-R-3 requirements address NQA-1 requirements**
  - **(b) how NQA-1 requirements address IAEA GS-R-3 requirements**
- **200 Applicability**
  - **The guidance is intended for all parties currently applying or implementing either NQA-1 or IAEA GS-R-3 requirements, and are required to comply or implement the other requirements.**

# Highlights of the Guide (cont.)

- **The guide can also be used to achieve compliance with both sets of requirements, simultaneously.**

## 300 Background

### 301 Global Uses of NQA-1 and IAEA GS-R-3

**Facilities and operators may be compelled to comply with GS-R-3 management system requirements, while maintaining compliance to an NQA-1 quality assurance program. Thus, organizations have to adopt both as the basis of their management system or QA programs. GS-R-3 requires, among other things, that these requirements be integrated within one management system. Thus, the need for this guidance.**

### 302 Conceptual Approaches to the Development of NQA-1 and GS-R-3

**NQA-1 defines requirements for an organization to establish, implement, and assess a QA program to achieve Nuclear Safety.**

# Highlights of the Guide (cont.)

**The NQA-1 approach applies QA requirements to activities that could affect the quality of material applications, structures, systems, and components of nuclear facilities.**

**IAEA GS-R-3 defines requirements for an organization to establish, implement, assess, and continually improve a management system that integrates safety, health, environmental, security, quality, and economic elements to ensure safety is not compromised.**

## 400 How to Use This Guide to Achieve Compliance with GS-R-3 or NQA-1

### 401 Two Perspectives and Two tables

**The requirements of both standards are listed in two tables and have been compared utilizing the 18-criteria format of NQA-1, and the Process Approach of GS-R-3.**

**The over riding perspectives that have been the basis for this comparison effort are:**

# Highlights of the Guide (cont.)

**(a) a Purchaser considering a Supplier for a nuclear facility that meets one of the programs but also needs to meet the requirements governed by the Purchaser's program**

**(b) a Supplier wanting to provide items/services to a Purchaser who requires compliance with the program that is not the Supplier's current program; this is at the heart of the "new build dilemma" regarding non-App B suppliers outside the US wanting to supply domestic projects, and the reason NPEC authorized the liaison position.**

**402 How to Use Tables I and II**

**The first table presents a column of all the NQA-1 requirements, with an adjacent column showing the corresponding GS-R-3 requirement that specifically address it.**

**The second table, likewise, shows all of the GS-R-3 requirements and the particular NQA-1 requirement(s) that specifically address it.**

**Where neither requirement meets the other requirement, a recommendation is presented as to how the specific requirement should be met.**

# Attachments

- **ASME NQA-1b-2011, Part IV, Subpart 4.7, Addenda to ASME NQA-1-2008**
- **ASME NQA-1-2008 (excerpts)**
- **IAEA GS-R-3**


AREVA