



# Status on ASME NQA-1 Activities/Projects



Duli C. Agarwal (301) 903-3919  
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Office of Quality Assurance (HS-33)



## Current Version of NQA-1



- ASME NQA-1-2008, Quality Assurance Requirements for Nuclear Facility Applications
- ASME NQA-1a-2009 Addenda, July 2009
- ASME NQA-1b-2011 Addenda, January 2011



## New in NQA-1a-2009



- Subpart 4.2, Guidance on Graded Application of the Nuclear Quality Assurance (NQA) Standard for Research and Development (published in NQA-1a.-2009)
- Subpart 4.3, Application Guide on the Use of the ISO 9001:2008, Quality Management System Standard for the Compliance with NQA-1-2008 Part 1 with the NQA-1a-2009 Addenda



## New in NQA-1b-2011



- Subpart 4.5, Application Guide on the Use of NQA-1-2008/1a-2009 for Compliance With Department of Energy Quality Assurance Requirements 10CFR 830 Subpart A and DOE Order 414.1



## New in NQA-1b-2011(cont.)



- Subpart 4.6, Application Guidance on the Use of NQA-1-2000 for compliance with 10 CFR 71 and/or 10 CFR 72 Requirements
- Subpart 4.7, Application Guide on the Comparison of NQA-1-2008/1a-2009 and the IAEA Safety Standard GS-R-3/2006



# NQA Projects under Considerations



- Project Title: New Subpart 2.x, Quality Assurance Requirements for Management assessment and Quality Improvement for compliance with 10 CFR 830 and Department of Energy 414.1 for DOE Nuclear Facilities. Project Manager: Duli Agarwal, HS-33, 301-903-3919, [duli.agarwal@hq.doe.gov](mailto:duli.agarwal@hq.doe.gov)
- Project Title: Develop a side by side comparison of NQA-1 with ANSI/ANS 15.8 -1995 standard to be placed in NQA-1 as a subpart 4 document. Project Manager: Daren K. Jensen, 208-526-2689



# NQA Projects under Considerations



- Project Title: Develop new or modify existing requirements and guidance to address current industry practices for monitoring, I&C, safety system software, design, analysis, and management support software. This project is considering consolidating software quality requirements into Part II Subpart 2.7. Project Manager: Chip Martin, DNFSB, 202-694-7132, [charlesm@dnfsb.gov](mailto:charlesm@dnfsb.gov)



# NQA Projects under Considerations



- Project Title: Review the use of the term “item” and provide a recommendation to determine whether the definition of item should be revised to include software. Project Manager: Edward Jordan, GE Hitachi Nuclear Energy, 910-819-5247, [edward.jordan@ge.com](mailto:edward.jordan@ge.com)
- Project Title: Review, evaluate, and propose changes to Part I and Part II requirements to address computer programs used in design analysis. Project Manager: Tilak Verma, Energy Solutions, 803-355-8733, [trverma@energysolutions.com](mailto:trverma@energysolutions.com)



# NQA Projects under Considerations



- Project Title: Develop a graphical navigation tool for use in determination and application of relevant sections of the Standard applicable to software and associated dependencies. The deliverable may include a flowchart-style guide of software requirements within NQA-1. Project Manager: Kevin Ake, The Shelby Group, LLC, 205-516-2913, [kevin.ake@shelbygroup.net](mailto:kevin.ake@shelbygroup.net)



## Coming in 2012



- New NQA-1 will be published. From 2012, no addenda will be published.
- Subpart 2X may be published in 2012. Board on Nuclear Codes and Standards is reviewing the project.