

EFCOG QA in Construction Best Practices

Tim McEvoy, LANL
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Team

Tim McEvoy, LANL (Lead)

Bobby Bolt, Kiewit

Shelby Turner, Fluor Hanford

Pat Hopper, Energy Solutions (represents the Project Mgt Working Group)

Art Reynolds, Parsons (SWPF)

Bob Murray, DOE EM -61

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Collette Broussard, DOE HS-31

Al Hawkins, DOE Hanford

Objective

- Develop a comprehensive Best Practices ~~Guide~~ document for Integrating Quality Assurance and Quality Control Principles and Practices into Construction Projects to improve overall bottom line performance.
- Document will serve as a reference for all Contractors supporting DOE projects
 - Will be maintained and periodically updated to reflect Industry Lessons Learned and DOE Operating Experiences

Approach

- Consistent with draft QA Guide for DOE O 413.3 ~~projects (including following the CD-x structure)~~
- Include QC as well as QA activities
- Utilize existing Industry Lessons Learned and DOE Operating Experiences from across the Complex (e.g. HEUMF)
- Include other functional input and perspectives (Engineering, Procurement, Construction, Project Management, D&D, etc.)
- Over time, include more “how’s” not just “what’s” (e.g. tools, rules of thumb, typical resource requirements, etc.)
- Utilize multiple authors from across DOE sites

Progress

Conference call #1 – October 11, 2007

- Agreement on objective and approach
- Document Structure
 - Problems/best practices (solutions)
 - The best practice sections will be about 2 or 3 paragraphs
 - Format aligned with 18 criteria from NQA-1.
 - Problems will fit better in the 18 criteria format as opposed to the Critical Decision (CD-x) process.
- Initial “pilot” best practices
 - Shelby – Control of Purchased Items & Services (subcontractor oversight);
 - Tim – Design Control/Software Design Control, (could evolve into subpart 2.7, ...Computer software for nuclear facility applications)
 - Bobby - will address rebar issues and will most likely fall in Instructions, Procedures, and Drawings;

Progress – cont'd

Call #2 – January 10, 2008

- Document focused on problems/solutions and therefore not a “Guide”.
- Confirmed tasking and objective
- All agreed that the document should be written with project personnel (project management, construction, procurement, engineering, etc.) as the audience.
- Best practices may include all phases of the project (initiation thru closeout) but will likely focus on the construction phase.

Progress – cont'd

Call #2 – cont'd

- Subcontractor Oversight & SQA draft best practices
 - Agreement on basic approach (problem/solution)
 - SQA examples a little too brief
 - Subcontractor oversight may have been a little long.
 - SQA examples should also include the potential impacts of the problem to help understand the context as well.
 - We'll refine as we go along.
- All will pulse project personnel and send Tim McEvoy a list of topics/problems to address in the document by COB January 25th.
- Tim will consolidate the list, eliminate duplicates, and send out the list to validate by COB February 1st.
- Once the list is complete (known scope), we'll make writing assignments and develop the overall schedule.