

From: Timothy Johnson
To: Stephen Cowne (LES)
Date: 06/29/2007 10:58:01 AM
Subject: Re: FW: Proposed email to NRC Steve McGuire concerning NRC funded software.

I received the general information below related to your question from Paul Bell our QA reviewer. Note that Steve McGuire will be out of the office until July 25. If you have further questions, suggest that we have a conference call to discuss further. Note that for the standard codes you are inquiring about, you can reference the verification and validation work that was done in the code development. There still needs to be further verification and validation as these codes are applied on your systems.

In response to the LES question regarding use and acquisition of QL-1 computer software the following applies:

The use of SCALE software was developed by Oak Ridge National Laboratory and funded by the NRC. Therefore, any procurement or use of the software should be independently tested in accordance with LES software acquisition methods, software engineering methods used to manage software life-cycle activities, application of the appropriate standards, conventions and other work practices that support the software's life-cycle and application of the appropriate controls for support software used to develop, operate, and maintain the availability and reliability of IROFS.

Software programs such as Standard Computer Analyses for Licensing Evaluation (SCALE) (e.g., when conducting safety and project analyses), RASCAL (digital I&C with Supervisory Control and Data Acquisition(SCADA) capabilities, and NCMP Numeric Control Macro Package potentially used for pipe bending and machining variables require the following controls:

1. Procurement documents should ID requirements for reporting software errors.
2. A software QA plan should be developed based on requirements and reference sources providing guidance on the programs operations, and functional responsibilities of key personnel.
3. A configuration management plan for documentation and verification of all computer codes or other software modified or developed in the computational system.
4. A verification and validation plan should be developed for software describing the methods to be used for baseline verification and validation of the system in the computer code system and applicable interfaces.
5. Acceptance testing shall be performed to demonstrate that the computer program and software adequately and correctly performs all intended functions.

>>> "Stephen Cowne (LES)" <scowne@nefnm.com> 06/28/2007 8:59 AM >>>

Tim; LES is attempting to qualify all the QL-1 software we use in the project. Some of this software is provided by the NRC and DOE. One of LES' QA staff has proposed sending the email below. Is this appropriate or should we qualify the software in a different manner? Your suggestions would be appreciated. Thanks, Steve C.

From: Joseph Randazzo (CTR)
Sent: Wednesday, June 27, 2007 5:47 PM
To: Jim Gearhart (LES); Stephen Cowne (LES)
Subject: Proposed email to NRC Steve McGuire concerning NRC funded software.

Mr. McGuire, I am a lead auditor at Louisiana Energy Services – National Enrichment Facility in Eunice NM. We plan to use RASCAL, NCMP and SCALE software developed by NRC and

DOE but are not quite sure how to qualify regulatory agencies as approved suppliers for software. I am attempting to compare available documentation to NQA-1, Part 2.7. There appears to be gaps in information. Additionally, RASCAL 3.0.5 Description of Models and Methods is watermarked DRAFT but has Manuscript Completed June 2007. In the upper corner it states: "NUREG ?????". Is this manuscript approved? Is it possible to get a certification letter for the software stating it is approved by NRC/DOE as a code for use for xxx purpose within the following defined limitations? It is not to be used for xyz purposes. Test case data would also help us validate the software is functioning properly. We could use the certification letter in our records to approve the supplier and test functionality on our system. Any help you may give is greatly appreciated. You may call me at (505) 394-5232. ThanksJoe
RandazzoLES Lead Auditor

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CC: BWS1; Julie Olivier; Paul Bell

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From: Timothy Johnson

Created By: TCJ@nrc.gov

Recipients

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scowne (Stephen Cowne (LES))

nrc.gov

OWGWPO01.HQGWDO01

PMB2 CC (Paul Bell)

nrc.gov

TWGWPO01.HQGWDO01

JAO CC (Julie Olivier)

nrc.gov

TWGWPO02.HQGWDO01

BWS1 CC (Brian Smith)

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