

ITAAC Closure Notifications Examples Review

July 28, 2011

Ed Kleeh, PE
Mahmoud Jardaneh, PE
NRO/DCIP/CTSB/CIT



Scope

- Industry will submit new ITAAC Closure Notifications (ICNs) as part of the Expanded ICN Examples Project
- NRC will review these ICNs for sufficiency of information to support ITAAC closure verification
- A total of 27 examples will be developed, reviewed, and included in NEI 08-01

ICN Example Review Results

- ICN for AP1000 ITAAC 2.1.02.07a.ii
- Group D-32
- Verify by inspection that as-built Class 1E equipment, associated wiring, cables, , and terminations qualified for a harsh environment are bounded by tests, analyses, or both
- Level of detail in the example is sufficient to support ITAAC closure verification

ICN Example Review Results

- ICN for AP1000 ITAAC 2.3.13.11b
- Group D-49
- Verify by tests that valves assume the designated design position upon the loss of motive power
- Level of detail in the example is sufficient to support ITAAC closure verification

ICN Example Review Results

- ICN for AP1000 ITAAC 2.1.02.11a.i
- Group D-40
- Verify by tests that controls exist in the MCR to cause components to perform active functions
- The terms “controls in MCR” and “valve electrical leads” should be qualified

ICN Example Review Results

- ICN for AP1000 ITAAC 2.1.02.12a.v
- Group D-48
- Verify by inspection that as-built valves are bounded by those tests or type tests by which they were qualified for their design function
- EQ is addressed in ITAAC 2.1.02.07a.ii and not relevant for this ITAAC
- Bounding information for as-built installation for qualification by test/type-test is not identified in the ICN
- ICN example should be revised to reflect the relevant ITAAC requirement

ICN Example Review Results

- ICN for AP1000 ITAAC 2.1.02.04a
- Group D-28
- Verify by hydrostatic or pressure test that ASME Code, Section III components retain their pressure boundary integrity at their design pressure
- Level of detail in the example is sufficient to support ITAAC closure verification
- Continue discussion on submittal of this ICN due to its generic applicability to mitigate ITAAC surge

General Comments

- ICNs should state that pre-operational testing was performed at the as-installed plant location (ICN Example D-40, D-49)
- ITAAC Completion Statement should clarify that the licensee notifies the NRC that ITAAC was performed for Plant XYZ
- ICNs should be labeled ITAAC Closure Notifications
- ICNs should state in general terms why AC was met, not just defer to reference document

Referenced ICNs ML Numbers

- ITAAC 2.1.02.07a.ii ML11202A261
- ITAAC 2.3.13.11b ML11202A259
- ITAAC 2.1.02.11a.i ML11202A264
- ITAAC 2.1.02.12a.v ML11202A263
- ITAAC 2.1.02.04a ML11208C247