

Template/Example for Harsh Environment Qualification – Installed Configuration

XX/YY/ZZZZ (Date)

To: NRC

From: {Name of Licensee}
{Site Name and Unit #(s)}
{Docket #(s)}

Subject: Completion of ITAAC 2.1 02.07a.ii

The purpose of this letter is to notify the Nuclear Regulatory Commission (NRC) of the completion of {Site Name and Unit #(s)} Inspection, Test, Analysis and Acceptance Criteria (ITAAC) Item 2.1 02.07a.ii for the site verification of the equipment qualified to harsh environments as identified in Table 2.1.2-1 of the DCD in accordance with 10 CFR 52.99(c)(1). The closure process for this ITAAC is based on the guidance described in NEI 08-01 (Reference 1).

ITAAC Statement

Design Commitment

The Class 1E equipment identified in Table 2.1.2-1 as being qualified for a harsh environment can withstand the environmental conditions that would exist before, during, and following a design basis accident without loss of safety function for the time required to perform the safety function.

Inspections, Tests, Analysis:

Inspection will be performed of the as-built Class 1E equipment and the associated wiring, cables, and terminations located in a harsh environment.

Acceptance Criteria:

A report exists and concludes that the as-built Class 1E equipment and the associated wiring, cables, and terminations identified in Table 2.1.2-1 as being qualified for a harsh environment are bounded by type tests, analyses, or a combination of type tests and analyses.

ITAAC Determination Basis

Equipment qualification reports for the Class 1E equipment identified in DCD Tier 1 Table 2.1.2-1 as being qualified for a harsh environment conclude that the equipment can withstand the environmental conditions that would exist before, during, and following a

design basis accident without loss of safety function for the time required to perform the safety function.

Harsh environment qualification of the components in Table 2.1.2-1 was previously verified by bounding type tests, analyses or a combination of type tests and analyses in accordance with ITAAC 2.1.02.07a.i (Reference 2).

In accordance with procedure XYZ (Reference 5), an inspection was conducted to confirm the satisfactory installation of the Class 1E components. An EQ As-Built Reconciliation was completed verifying that the installed configuration of the Class 1E equipment identified in Table 2.1.2-1 and the associated wiring, cables, and terminations is in accordance with the qualified configuration and IEEE Standard 323-1974 (Reference 3). The EQ As-Built Reconciliation documentation is identified in Table 1.

ITAAC-Related Construction Finding Review

In accordance with XXX-XXX-XXX (project specific procedure for ITAAC close-out), a review of all ITAAC-related construction findings pertaining to the subject ITAAC and associated corrective actions. This review found that there were no relevant ITAAC-related construction findings associated with this ITAAC. The ITAAC close-out review is documented in ITAAC Completion Package for ITAAC 2.1 02.07a.ii (Reference 4) and available for NRC review.

ITAAC Closure Statement

Based on the above information, Nuclear Plant hereby notifies the NRC that ITAAC 2.1 02.07a.ii was performed and the prescribed acceptance criteria were met.

Systems, structures and components verified as part of this ITAAC are being maintained in their as-designed, ITAAC compliant condition in accordance with approved plant programs and procedures.

We request NRC staff confirmation of this determination and publication of the required notice in the Federal Register per 10 CFR 52.99.

If there are any questions, please contact XXX at xxx-xxx-xxxx.

Sincerely,

{Signature of Licensee Representative}
{Typed Name of Licensee Representative}
{Title of Licensee Representative}

References (available for NRC inspection)

1. NEI 08-01, Industry Guideline for the ITAAC Closure Process Under 10 CFR Part 52.

2. Nuclear Power Plant ITAAC 2.1 02.07a.i ITAAC Closure Letter
3. IEEE 323-1974 – IEEE Standard for Qualifying Class 1E Equipment for Nuclear Power Generating Stations
4. Nuclear Power Plant ITAAC 2.1 02.07a.ii ITAAC Completion Package
5. Procedure XYZ – Performance of Equipment Qualification As-Built Reconciliations
6. Equipment Qualification Data Packages as identified in Table 1 (enclosure to this letter)

DRAFT

**Table 1
EQUIPMENT QUALIFICATION ITAAC COMPLIANCE MATRIX**

SYSTEM: REACTOR COOLANT SYSTEM

Equipment Name	Tag Number	Class 1E/ Qual. for Harsh Envir.	EQDP Report Number	EQ As-Built Reconciliation Report Number
First-stage ADS Motor-operated Valve (MOV)	RCS-PL-V001A	Yes/Yes	E F F E E E E E E E E E E E E E	
First-stage ADS MOV	RCS-PL-V001B	Yes/Yes		
Second-stage ADS MOV	RCS-PL-V002A	Yes/Yes		
Second-stage ADS MOV	RCS-PL-V002B	Yes/Yes		
Third-stage ADS MOV	RCS-PL-V003A	Yes/Yes		
Third-stage ADS MOV	RCS-PL-V003B	Yes/Yes		
Fourth-stage ADS Squib Valve	RCS-PL-V004A	Yes/Yes		
Fourth-stage ADS Squib Valve	RCS-PL-V004B	Yes/Yes		
Fourth-stage ADS Squib Valve	RCS-PL-V004C	Yes/Yes		
Fourth-stage ADS Squib Valve	RCS-PL-V004D	Yes/Yes		
ADS Discharge Header A Vacuum Relief Valve	RCS-PL-V010A	Yes/Yes		
ADS Discharge Header B Vacuum Relief Valve	RCS-PL-V010B	Yes/Yes		
First-stage ADS Isolation MOV	RCS-PL-V011A	Yes/Yes		
First-stage ADS Isolation MOV	RCS-PL-V011B	Yes/Yes		
Second-stage ADS Isolation MOV	RCS-PL-V012A	Yes/Yes		
Second-stage ADS Isolation MOV	RCS-PL-V012B	Yes/Yes		
Third-stage ADS Isolation MOV	RCS-PL-V013A	Yes/Yes		

[Table truncated]