225 Day Notification
ITAAC-Specific Attachment

XX/YY/ZZZZ (Date)

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

Subject: Notification of Status of AP1000 ITAAC 2.2.2-3 Item 7.b.i Passive Containment Cooling System Water Distribution

ITAAC Statement

Design Commitment

7.b) The PCS wets the outside surface of the containment vessel. The inside and the outside of the containment vessel above the operating deck are coated with an inorganic zinc material.

Inspection/Test/Analysis

i) Testing will be performed to measure the outside wetted surface of the containment vessel with one of the three parallel flow paths delivering water to the top of the containment vessel.

Acceptance Criteria

i) A report exists and concludes that when the water in the PCCWST uncovers the standpipes at the following levels, the water delivered by one of the three parallel flow paths to the containment shell provides coverage measured at the spring line that is equal to or greater than the stated coverages. - 24.1 ± 0.2 ft above the tank floor; at least 90% of the perimeter is wetted. - 20.3 ± 0.2 ft above the tank floor; at least 72.9% of the perimeter is wetted. - 16.8 ± 0.2 ft above the tank floor; at least 59.6% of the perimeter is wetted.

Actions Achieved Toward ITAAC Closure

The containment vessel and the elements of the water distribution system on the top dome of the containment vessel are complete. The inorganic zinc coating on the outside surface of the containment is complete. The notification of the completion of ITAAC 2.2.2-3 Items 7.b.ii and 7.b.iii associated with the completion of the application of the inorganic zinc coating to the containment surface included in the design commitment is reported separately. The test procedure for the water distribution testing is prepared and approved.

225 Day Notification
ITAAC-Specific Attachment

Actions Remaining to Attain ITAAC Closure

During the filling of the Passive Containment Cooling Water Storage Tank (PCCWST) as each test level is reached water will be released into the distribution system. The water coverage will be determined for each tank water level at the spring line of the containment vessel. The spring line is at the connection between the ellipsoidal head and the top of the cylinder. Observation of the test, as directed by the procedure, will be by personnel directly or by use of cameras located inside the air baffle. Video or photographic means will be used to record the test. Determination of the coverage percentage will be made using measurement of photographs or estimated using markers applied to the containment shell. A report will be prepared to document the test results. This report will be available for NRC review.

ITAAC Closure Schedule

This observation of water coverage planned is similar to test observations originally done during the Passive Containment Cooling System Water Distribution tests performed to support the development of the passive containment cooling system. The test procedure for the water distribution testing is prepared and approved.

ITAAC 2.2.2-3 Item 7.b.i is being tracked in the ITAAC database. ITAAC 2.2.2-3 Item 7.b.i Closeout Package (and specific reports, procedures, or other references as necessary) are scheduled to be issued by [month, day, year]. The Closure Letter for ITAAC 2.2.2-3 Item 7.b.i will follow our review and acceptance of these documents.

References (available for NRC review)

1 Passive Containment Cooling System Water Distribution Procedure, report, or other