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GL 87-02
USI A-46

Document Control Desk
US NUCLEAR REGULATORY COMMISSION
Mail Station P1-137
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Ladies/Gentlemen:

DOCKETS 50-266 AND 50-301
STATUS UPDATE ON RESOLUTION OF SEISMIC OUTLIERS
GENERIC LETTER 87-02, VERIFICATION OF SEISMIC ADEQUACY
OF MECHANICAL AND ELECTRICAL EQUIPMENT IN OPERATING REACTORS
POINT BEACH NUCLEAR PLANT, UNITS 1 AND 2

Your letter to Mr. Michael B. Sellman of Wisconsin Electric dated July 7, 1998, "Safety Evaluation on the Resolution of Unresolved Safety Issue A-46 at Point Beach Nuclear Plant Units 1 and 2," transmitted the safety evaluation of Wisconsin Electric (WE) Power Company's USI A-46 implementation program at the Point Beach Nuclear Plant. The cover letter stated, "The staff has determined that WE's corrective actions and completed physical modifications for resolution of outliers will result in safety enhancements... that... provide sufficient basis to close the USI A-46 review at Point Beach Nuclear Plant, Units 1 and 2. The staff concludes that WE's implementation program to resolve USI A-46 at the facility has adequately addressed the purpose of the 10 CFR 50.54(f) request." The SER enclosed with that letter stated, "The licensee has provided the staff with sufficient information to demonstrate conformance with the NRC-approved review methodology outlined in Seismic Qualification Utility Group (SQUG) Generic Implementation Procedure GIP-2 and is, therefore, acceptable."

The purpose of this letter is to update you on the status of the remaining seismic outlier corrective actions and to provide revised estimated completion dates. The USI A-46 SER for Point Beach summarized the number of seismic outliers initially identified and the resolution status at that time for certain equipment categories. The updated status and schedule for outlier resolution is provided for each category as follows:

1. EQUIPMENT CLASSES 1-21: A total of 99 outliers were initially identified during the seismic verification walkdowns of safe shutdown equipment within the SQUG GIP-2 equipment classes 1 - 21.

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Updated Status: Eighty (80) of the initial 99 equipment outliers have been resolved through plant modifications, repairs, or analyses. Sixteen (16) of the remaining nineteen (19) outliers are planned to be resolved by plant modifications now scheduled to be installed in the year 2000. The last three equipment outliers include two Refueling Water Storage Tank outliers discussed further below and one containment isolation valve outlier, which is expected to be resolved during the next Unit 1 refueling outage in spring 2001. Although originally scheduled for installation by fall 1999 as noted in the SER, these modifications were deferred to 2000 or 2001 due to higher priority emergent work items and extensive preparations required for the fall 1999 UIR25 refueling outage. Although the safe shutdown equipment with unresolved outliers does not meet all of the acceptance criteria of the SQUG GIP-2, the equipment has been seismically evaluated and determined to be operable for a safe shutdown earthquake at Point Beach. The decision to delay installation of these modifications took into account the low safety significance of these outliers.

2. **EQUIPMENT CLASS 22 (CABLE AND CONDUIT RACEWAYS):** Three of the ten cable raceway supports identified for limited analytical review (LAR) were identified as outliers, including cable tray supports located in the Cable Spreading Room. In addition, three outliers were identified regarding cables hanging out of their respective trays and a loose base clip angle on a cable tray support in the Unit 1 and 2 containment buildings.

Updated Status: All physical work associated with correcting the above seismic outliers for cable and conduit raceways is expected to be completed by the end of 1999.

3. **REFUELING WATER STORAGE TANKS (RWSTs):** At the time of the SER, WE had committed to address the seismic outliers identified on each Unit's RWST, but the method and schedule of that resolution was not known.

Updated Status: The resolution of the RWST seismic outliers has now been determined to be an upgrade of each tank's anchorage and the associated anchor bolt chair stiffeners. The design of these modifications is nearly complete and the installation of these modifications is now planned for each Unit's next scheduled refueling outage in fall 2000 (Unit 2) and spring 2001 (Unit 1). Although the tanks do not currently comply with the SQUG GIP-2 acceptance criteria for above ground storage tanks, a seismic analysis of the tanks demonstrates that they are operable for a safe shutdown earthquake at Point Beach.

4. **ESSENTIAL RELAYS:** The seismic relay evaluation identified 132 relay outliers which, except for those associated with the emergency diesel generators G01 and G02, were scheduled to be resolved by the fall of 1999. The G01/G02 relay outliers were scheduled to be resolved as part of a control system upgrade by the year 2002.

Updated Status: The relay outliers not associated with the G01/G02 emergency diesel generators are resolved. The seismic capability of essential relays associated with G01/G02 is being reevaluated to determine the best approach for resolving the seismic outliers. The outliers are still planned to be resolved no later than the year 2002, as previously noted in the SER. Although not all essential relays for G01/G02 have been demonstrated to be seismically adequate in accordance with the SQUG GIP-2, evaluation of the relay outliers demonstrates that the emergency diesel generators are operable for a safe shutdown earthquake at Point Beach.

In summary, *USI A-46 seismic outliers for equipment at Point Beach, as discussed in GL 87-02, are planned to be resolved by the year 2000, except for outliers associated with the RWSTs, one containment isolation valve, and the G01/G02 relays.* The RWST and containment isolation valve seismic outliers are planned to be resolved by spring 2001. The G01/G02 essential relay outliers are expected to be resolved by 2002. The safe shutdown equipment with seismic outliers is considered operable for a safe shutdown earthquake at Point Beach. This is our updated schedule for completing the remaining USI A-46 (GL 87-02) corrective actions. We will inform you only if there is a change in this schedule.

New commitments in this letter are indicated in italics.

If you require additional information, please contact us.

Sincerely,



A. J. Cayia
Manager,
Regulatory Services & Licensing

JG/tat

cc: NRC Regional Administrator
NRC Resident Inspector

NRC Project Manager
PSCW