



Consumers
Power
Company

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July 22, 1981

Director, Nuclear Reactor Regulation
Att Mr Dennis M Crutchfield, Chief
Operating Reactors Branch No 5
US Nuclear Regulatory Commission
Washington, DC 20555



DOCKET 50-255 - LICENSE DPR-20 -
PALISADES PLANT - SEP TOPIC III-6, SEISMIC DESIGN CONSIDERATIONS
ANCHORAGE AND SUPPORT OF SAFETY RELATED ELECTRICAL EQUIPMENT

By letter dated January 1, 1980, the NRC initiated a program for the verification of adequacy of the anchorage and support of safety-related electrical equipment. Consumers Power Company letters dated February 14, 1980 and April 2, 1980 described our program for addressing this issue and provided the results of the initial plant inspections. Recently Mr Tom Cheng of the NRC requested an update on the progress of modifications being performed to resolve this issue. He also requested sample calculations which could be used in the development of the SER for SEP Topic III-6. This letter responds to Mr Cheng's request.

Attachment 1 provides URS/John A Blume & Associates, Engineers Report URS/JAB 8013, "Consultation for Safety-Related Electrical Equipment at Palisades Nuclear Power Plant." This report details the final acceptance criteria, methodology, and results for the verification of safety-related electrical equipment anchorages. This report also shows the designs for equipment modifications which have been or will be completed. It must be noted that the drawings in Appendix E will not necessarily be identical to the final, as-installed, anchorages because of field interference, but they do illustrate the types of modifications being made. You will also note that the evaluations are conservatively based on a .2g SSE rather than the site specific spectrum anchored at .11g determined by the NRC as being applicable to the Palisades site. Attachment 2 provides a list of the equipment anchorage modifications which remain to be completed. Some of these modifications are now in progress. It is our intent to complete all remaining modifications on this list by the end of the 1981 Palisades refueling outage presently scheduled to begin in early August.

It will be noted that the URS/Blume Report, Attachment 1, also discusses non-Category I items which could impact safety-related electrical equipment during earthquakes and provides suggested guidelines for their disposition. This consideration parallels the concerns for gravity missiles inside containment which are being addressed under SEP Topic III-4.C Internal Missiles.

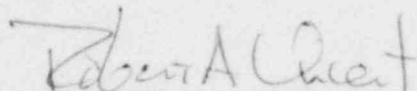
We believe that almost all items of concern in this category have now been either moved out of sensitive areas or have been tied down, both inside and

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outside containment. This will be confirmed during the upcoming refueling outage (scheduled to start in August) with a final walkdown inside containment for Topic III-4C and completion of the remaining equipment tie downs outside containment.

A handwritten signature in dark ink, appearing to read "Robert A. Vincent". The signature is fluid and cursive, with the first name "Robert" and last name "Vincent" clearly distinguishable.

Robert A Vincent
Staff Licensing Engineer

CC Director, Region III, USNRC
NRC Resident Inspector - Palisades

ATTACHMENT 1

URS/John A Blume & Associates, Engineers

Consultation for
Safety-Related Electrical Equipment
at Palisades Nuclear Plant

ATTACHMENT 2

Palisades Plant
Remaining Equipment Anchorage Modifications

1. D-10, D-20
2. 2400 volt buses 1C, 1D
3. C-33 (in progress)
4. C-40 (in progress)
5. C-101 (in progress)
6. C-07
7. Y01
8. C-04, C-06
9. C-207, C-115
10. C-11, C-12, C-13
11. Diesel Generator 1-1, 1-2 Skids

It is expected that these modifications will be completed by the end of the 1981 Palisades refueling outage.