



May 7, 1993

U. S. Nuclear Regulatory Commission
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ULNRC-2801

Gentlemen:

**DOCKET NUMBER 50-483
CALLAWAY PLANT UNIT 1
FACILITY OPERATING LICENSE NPF-30
SPECIAL REPORT 93-01
SEISMIC MONITORING INSTRUMENTATION SYSTEM
CHANNEL INOPERABLE FOR GREATER THAN 30 DAYS**

This special report is submitted pursuant to Technical Specification 3.3.3.3 Action (a) concerning the inoperability of one channel of the Seismic Monitoring Instrumentation System.

A handwritten signature in cursive script, appearing to read "W. R. Campbell".

W. R. Campbell

WRC/SES/JGB/lrj

Enclosure

cc: Distribution attached

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JE2211

cc distribution for ULNRC-2801

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SPECIAL REPORT 93-01

This report is submitted in accordance with Technical Specification 3.3.3.3 Action (c) which states, "With one or more of the above required seismic monitoring instruments inoperable for more than 30 days, prepare and submit a Special Report to the Commission pursuant to Specification 6.9.2 within the next 10 days, outlining the cause of the malfunction and the plans for restoring the instrument(s) to OPERABLE status".

At 1130 CDT on 4/5/93, during a routine seismic monitoring instrumentation surveillance by utility Instrument and Control technicians, Channel 3 of reactor piping support seismic monitoring sensor SG-AE-003 located on the primary shield wall by the 'D' Hot Leg was determined to be inoperable. The plant was in Mode 1 at 100% power.

The testing shows that Channel 3 of SG-AE-003 has a stairstep response to a square wave input. Thus, the sensor does not transition smoothly from a low to high state. Although this is not a specific acceptability requirement, it does indicate degradation that could render any data recorded on this sensor channel unreliable.

This channel was therefore declared inoperable. The remaining channels in this system remain operable. The location of this sensor makes it inaccessible during power operation, and thus will be replaced during Refuel 6 which is scheduled for the fall of 1993.