FLORIDA POWER CORPORATION
CRYSTAL RIVER UNIT 3
DOCKET NO. 50-302/LICENSE NO. DPR-72
REQUEST NO. 92, REVISION 0
REACTOR VESSEL HEAD SEISMIC INSTRUMENTATION

LICENSE DOCUMENT INVOLVED: Technical Specification

PORTION: 3.3.3.3 Seismic Instrumentation

DESCRIPTION OF REQUEST:

This request would change the applicability of Technical Specification 3.3.3.3 to allow the Triaxial Peak Accelograph on top of the Reactor Vessel Head to be inoperable during Modes 5 and 6.

REASON FOR REQUEST:

Technical Specification 3.3.3.3 currently requires the seismic monitoring instrumentation channel on Table 3.3-7 to be operable AT ALL TIMES. If a channel is inoperable for more than 30 days, a Special Report must be submitted to the Commission within 10 days. The fact that the Triaxial Peak Accelograph on top of the reactor head is removed during Modes 5 and 6 (cold shutdown and refueling) is not addressed. Therefore, by the strictest interpretation of this specification, every time the Reactor Vessel Head is removed for more than 30 days, a Special Report must be submitted. This interpretation does not support the intent of the requirement, however, because the Head Accellograph does not perform a useful function while the head is off. Therefore, this specification should be revised to address Reactor Vessel Head removal.

EVALUATION OF REQUEST:

Since this accellograph is mounted directly on the Reactor Vessel Head, it supplies no useful information while the head is removed. Redundant monitors are required to be operable at all times. Therefore, this change would have no adverse effect on plant safety and does not involve an unreviewed safety question.

REFERENCES:

Reg. Guide 1.12, Instrumentaion for Earthquakes
Standard Review Plan Section 3.7.4, Seismic Instrumentation
Final Safety Analysis Report Section 5.1.2.4, Site Seismic Surveillance

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DOCKET NO. 50-302/LICENSE NO. DPR-72
SIGNIFICANT HAZARDS CONSIDERATION DETERMINATION

Request:

Florida Power Corporation requests issuance of an amendment to Crystal River Unit 3 Technical Specifications to revise the modes in which the reactor vessel head seismic instrumentation must be operable. The current specification requires operability during all modes. This amendment would not require operability during Modes 5 and 6, when the head is removed.

Significant hazards consideration determination:

(x) Amendment involves no significant hazards consideration.
( ) Amendment involves significant hazards consideration.

Basis for Determination:

This amendment is considered not likely to involve significant hazards consideration because it is an administrative change to correct an error in the Technical Specifications. When the current specification was proposed, removal of the reactor vessel head was not addressed. This amendment corrects that oversight.

Requested Implementation Date:

Florida Power Corporation does not request an implementation date for this amendment.

INSTRUMENTATION

SEISMIC INSTRUMENTATION

LIMITING CONDITION FOR OPERATION

3.3.3.3 The seismic monitoring instrumentation channels shown in Table 3.3-7 shall be **OPERABLE.**

APPLICABILITY: As shown in Table 3.3-7.

ACTION:

a. With one or more 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.

b. The provisions of Specification 3.0.3 and 3.0.4 are not applicable.

SURVEILLANCE REQUIREMENTS

4.3.3.3.1 Each of the above seismic monitoring instruments shall be demonstrated **OPERABLE** by the performance of the **CHANNEL CHECK, CHANNEL CALIBRATION** and **CHANNEL FUNCTIONAL TEST** operations at the frequencies shown in Table 4.3-4.

4.3.3.3.2 Each of the above seismic monitoring instruments actuated during a seismic event shall be restored to **OPERABLE** status within 24 hours and a **CHANNEL CALIBRATION** performed within 5 days following the seismic event. Data shall be retrieved from actuated instruments and analyzed to determine the magnitude of the vibratory ground motion. A Special Report shall be prepared and submitted to the Commission pursuant to Specification 6.9.2 within 10 days describing the magnitude, frequency spectrum and resultant effect upon facility features important to safety.

TABLE 3.3-7

SEISMIC MONITORING INSTRUMENTATION

	INSTRUMENTS AND SENSOR LOCATIONS	MEASUREMENT RANGE	MINIMUM INSTRUMENT OPERABLE	APPLICABLE MODES
1.	Triaxial Time-History Accelographs			
	a. 95'0" Containment vessel foundation	± 1.0 G	1	ALL
	b. 267'6" Outside containment on top of ring girder	± 1.0 G	1	ALL
	c. 145'0" Control room floor	± 1.0 G	1	ALL
2.	Triaxial Peak Accelographs			
	a. 140'0" At top of reactor	± 2.0 G	1	1, 2, 3, and 4
	b. 175'6" Piping at top of one S.G.	± 2.0 G	1	ALL
	c. 166'8" Top of Borated Water Storage Tank	± 2.0 G	1	ALL
3.	Triaxial Seismic Switches			
	a. 95'0" Containment vessel foundation	.005 to .05 G	1*	ALL

NOTE: Starts all three magnetic time history accelographs whenever the acceleration exceeds .01 G.

* With reactor control room indication