TENNESSEE VALLEY AUTHORITY
CHATTANOOGA, TENNESSEE 37401
400 Chestnut Street Tower II

November 21, 1984

Director of Nuclear Reactor Regulation
Attention: Ms. E. Adensam, Chief
Licensing Branch No. 4
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Ms. Adensam:

In the Matter of	)	Docket Nos. 50-327
Tennessee Valley Authority	)	50-328

In the November 7, 1984 letter from L. M. Mills to you, TVA provided notification, in accordance with the provisions of 10 CFR 50.49(h), that safety-related electrical equipment at Sequoyah unit 2 may not be qualified by the end of the second refueling outage. Also, we requested an extension for qualification of these components until November 30, 1985.

As a result of additional telephone conversations with the NRC, enclosed is a revision to Enclosure 1 of the November 7, 1984 letter to provide further clarification and to delete one item from the extension request. The estimated completion dates identified in Enclosure 1 are subject to change if additional delays are incurred as a result of procurement or vendor delays. The number of items for which we are requesting an extension is very small when compared to the total number of items. We will have replaced approximately 490 components by the end of the current unit refueling outage. This represents a 98-percent completion of unit 2 and common components.

We are still requesting an extension for qualification of these components until November 30, 1985.

If you have any questions concerning this matter, please get in touch with Jerry Wills at FTS 858-2683.

Very truly yours,

TENNESSEE VALLEY AUTHORITY

J. A. Domer

J. A. Domer
Nuclear Engineer

Sworn to and subscribed before me
this 21st day of Nov. 1984

Paulette D. White

Notary Public
My Commission Expires 8-24-88

Enclosure

cc: See page 2

A048
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cc: U.S. Nuclear Regulatory Commission (Enclosure)
Region II
Attn: Mr. James P. O'Reilly Administrator
101 Marietta Street, NW, Suite 2900
Atlanta, Georgia 30323

ENCLOSURE 1

ELECTRICAL EQUIPMENT REQUIRING EXTENSIONS

1. 2-LCV-3-148, -156, -164, -171, -172, -173, -174, and -175 (valve positioner)

   The eight components listed above are the steam generator level control valves installed on the auxiliary feedwater system. It was determined in late 1982 that the valve positioners (which convert a current signal to a pressure signal) on each of these air-operated valves lacked sufficient documentation to verify that they were qualified for the environmental conditions that could occur during certain accidents. Following this, TVA was unable to locate a qualified replacement positioner and finally concluded that this was the best available positioner.

   Subsequently, these positioners were entered into a testing program to verify their qualification. This created further delays because of the time required to procure positioners from the manufacturer for testing. Initially the positioner was subjected to an accident simulation test to temperatures in excess of 325°F, which is greater than the device would encounter during an accident condition. The performance of the positioner was satisfactory during this test; however, to qualify the positioner to IEEE 323-1974 requirements commpletely, a long-term thermal aging, radiation, seismic, and subsequent LOCA test must be performed. This testing is still in progress and is expected to be completed in March 1985, unless unforeseen difficulties arise.

   Additionally, there is no indication at this time that the positioners in question will not pass the complete qualification testing program. Based on TVA's evaluation of all available information, we believe these positioners will function as intended. In addition, a similar I/P transducer which is installed on the auxiliary feedwater bypass level positioner (Masoneilan model 8005A) control valves has been fully qualified by testing.

2. 2-MTR-30-179 - SIS Pump Room Cooler Motor - ECN 5370

   The qualified motor for unit 1 failed; therefore, the unit 2 replacement motor was installed on unit 1 during the cycle 2 refueling outage. Subsequently, the failed motor was sent to the vendor for repairs. As of this date, the motor has not been repaired. The qualified replacement motor which failed was returned to the vendor for repairs around June 1984. The contract required a TVA audit of the vendors repair facilities QA program. This audit has just been completed by TVA and resulted in nonapproval of their QA program; therefore, the

ELECTRICAL EQUIPMENT REQUIRING EXTENSIONS

vendor can not repair the motor until identified deficiencies are resolved. TVA does expect this motor to be repaired and delivered by February 1985. Replacement of this motor can be performed during unit operation since it will only affect one train of ECCS equipment. Pending some unforeseen difficulty, TVA expects to replace this motor by March 1985.

NOTE: As discussed with NRC in a telephone conversation on November 19, 1984, the maximum temperature that this motor will see is 110°F.

3. 2-FCV-63-175 - SIS Pump 2B-B - Recirc Valve to RWST - ECN 6108

TVA has been able to obtain a qualified valve operator. The replacement operator gearing was, however, not compatible. New operator gearing has been procured. The operator with gearing has been installed and functionally tested. This item has therefore been resolved and the extension request is withdrawn.

4. 2-FSV-43-201, -202, -207, and -208 - Hydrogen Analyzers - Solenoid Valves
2-PSV-1-6B, -13B, -24B, and -31B - Steam Generator PORV - Solenoid Valves

The Conax connectors/servic air flexible conduits are presently being procured for ASCO solenoid valves. TVA had previously planned to seal the ASCOs with a material called PLAS-DUX. TVA has recently been informed by the NRC that the qualification on the PLAS-DUX was unacceptable without further testing; therefore, TVA determined the quickest method of sealing was with the Conax connectors/servic air flexible conduits. TVA proceeded to procure the additional Conax connectors/servic air flexible conduits for the ASCOs since these connectors are the only known available qualified connectors/flexible conduits for TVA's applications.

TVA was given a November 15, 1984 delivery date for the Conax connectors/Sercic Air flexible conduits. The connectors were received around November 16, 1984; however, they were the wrong size. The special conduit connectors were not shipped. This modification will require a short unit outage due to their location (valve vault/inside containment). TVA has been given a delivery date of around January 1, 1985 for these components. TVA will replace these components when there is an outage of scheduled duration (approximately two days mode 5 outage for steam generator PORVs and approximately two days mode 2 or less outage for system 43 valves).

ELECTRICAL EQUIPMENT REQUIRING EXTENSIONS

5. 0-MTR-70-33 - 28-B CCS Pump Motor

The thermocouples for the qualified replacement motor were used to replace failed thermocouples on another qualified motor recently installed. TVA is in the process of procuring thermocouples and has been informally given a six-week delivery date upon award of contract. TVA expects delivery of the thermocuples by February 1985. Replacement of this motor can be performed during unit operation. Pending some unforeseen difficulty, TVA expects to have this motor replaced by March 1985, unless delays are incurred in procurement.

NOTE: As discussed with the NRC on November 19, 1984, the pump presently installed has a five-year qualified life that will end in November 1986.