Tennessee Valley Authority, 1101 Market Street, Chattanooga, Tennessee 37402

February 12, 1993

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555

Gentlemen:

In the Matter of	)	Docket Nos. 50-259 50-327
Tennessee Valley Authority	)	50-260 50-328
	)	50-296

EMERGENCY RESPONSE DATA SYSTEM (ERDS) - IMPLEMENTATION

Sequoyah (SQN) and Browns Ferry (BFN) Nuclear Plants have completed acceptance testing of the Emergency Response Data System (ERDS) and implementation of ERDS for SQN and BFN is complete in accordance with 10 CFR 50 Appendix E, Section VI, and the guidance of NUREG-1394, Revision 1.

The BFN outage begins January 29, 1993, and due to our commitment to upgrade the site SPDS computer, the ERDS link for BFN will be disabled for the duration of this outage. Because of the BFN SPDS computer upgrades, it will be necessary to revise the BFN Data Point Library (DPL). This has been discussed with John Jolicoeur of your staff, and we will work with him to finalize the revised DPL before formal submission.

As discussed with Mr. Jolicoeur, enclosed is our revised response to Appendix B - NUREG 1394 applicable to SQN and BFN. This revision reflects changing the data transmission frequency from 15 seconds to 30 seconds and updates the NRC requested points of contact for system operation.

We understand, based on conversations with Mr. Jolicoeur, that our September 18, 1992 comments on the proposed generic letter regarding the ERDS test program were found acceptable and our request to move the SQN tests from week six on Thursdays to week four on Wednesdays will be reflected in the final version.

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No new commitments are contained in this submittal. If you have questions, please telephone E. G. McKeown at (615) 751-4888.

Sincerely,

Mark J. Burzynski
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Enclosure
cc (Enclosure):
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ENCLOSURE

TENNESSEE VALLEY AUTHORITY
RESPONSE TO APPENDIX B - NUREG 1394

I. Contacts

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III. Selection of Data Feeders

A. How many data feeders are there?

One.

B. Identify the selected data feeders and provide for each:

The Central Emergency Control Center (CECC) computer system is the selected data feeder to implement ERDS for Sequoyah unit 1, Sequoyah unit 2 and Browns Ferry Unit 2.

1. Description of the categories of data points it will provide

All the required data that is available on the plant SPDS computers and the requested meteorological data.

2. The rationale for selecting it.

The data feeder selected is the Central Emergency Control Center (CECC) computer system. This system was selected for the following reasons:

- The CECC computer system has access to all the data on the SPDS computer system for each operating unit as well as the meteorological data for each site.

- Less software needs to be written and maintained since only one system will require an initiation and data transfer program. Data transfer from the SPDS computers to the CECC is already available.

- Less expensive and shorter lead time to implement since no Design Change Request needs to be written to install the link to the NRC.

- Requires only one place for activating the ERDS interface. This will reduce the number of people that require training in the activation process.

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IV. Data Feeder Information

1. Identification of Feeder

   a. Name in local parlance and Acronym.

      Central Emergency Control Center (CECC)

   b. Is this the site time determining feeder?

      Yes.

   c. How often will this feeder transmit an update to ERDS.

      Every 30 seconds.

2. Hardware/Software Environment

   a. Identify the manufacturer and model number.

      Digital Equipment Corporation Vax 4000, Model 200

   b. Operating System

      VMS

   c. What method of timekeeping (Daylight, standard, greenwich?)

      Daylight/Standard

   d. In what time zone is it located.

      The CECC computer uses Central time for Browns Ferry and Eastern time for Sequoyah and Watts Bar.

- The CECC also has high speed links to the Sequoyah and Watts Bar simulators and will be networked with the CECC. During REP drills data can be received from these systems in place of the live data. This would allow the NRC to receive simulated data during an REP exercise without installing additional links.

- As additional units such as BF3 or WB2 near fuel load or restart, no additional ERDS links will be required.

C. Which data feeder is the site time determining feeder?

The CECC computer system controls the time that is displayed in the CECC and will drive time displays in the site Technical Support Centers. Data received from the plant SPDS computers is not time tagged. The CECC computer system will time tag the ERDS data prior to transmissions.

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3. Data Communications Details

a. Can it provide Asynchronous serial data (RS-232-C) with full modem control?

Yes.

b. Ascii or Ebcdic?

ASCII.

c. Can it transmit at 2400 bps?

Yes.

d. Does operating system support Xon/Xoff?

Yes.

e. If not why not.

f. Do any ports currently exist for ERDS linkup?

Yes.

4. Data Feeder Physical Environment and Management

a. Where located in terms of TSC, EOF, control room?

The CECC computer system resides at the EOF in Chattanooga.

b. Is it protected for loss of electricity?

Yes, the CECC is provided with diesel power should the electricity fail. The new computer systems will be on a uninterruptable power source as well.

c. Is there a human operator for the data feeder?

Yes.

1. How many hours attended?

The Operations Duty Specialist monitors system availability on a 24 per day basis and is available to activate the ERDS.