

VIRGINIA ELECTRIC AND POWER COMPANY  
RICHMOND, VIRGINIA 23261

April 21, 1986

W. L. STEWART  
VICE PRESIDENT  
NUCLEAR OPERATIONS

Mr. Harold R. Denton, Director  
Office of Nuclear Reactor Regulation  
Attn: Mr. Lester S. Rubenstein, Director  
PWR Project Directorate No. 2  
Division of PWR Licensing-A  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Serial No. 86-191  
NO/ETS/vlh  
Docket No. 50-280  
License No. DPR-32

Gentlemen:

VIRGINIA ELECTRIC AND POWER COMPANY  
SURRY POWER STATION UNIT NO. 1  
SCHEDULE EXTENSION REQUEST - REGULATORY GUIDE 1.97  
AND SAFETY PARAMETERS DISPLAY SYSTEM COMMITMENTS

Your Confirmatory Order of June 14, 1984, specified a completion schedule for commitments to Supplement 1 to NUREG-0737 for Surry Power Station (SPS). This Confirmatory Order contained a provision allowing the Director, Division of Licensing, to grant extensions of time for completing the identified items "for good cause shown." The Order required Surry Power Station to have the Emergency Response Facilities Data Acquisition System (ERFDAS) and the Safety Parameter Display System (SPDS) fully operational with operators trained and to have the Regulatory Guide 1.97 variables installed or upgraded, including the Core Exit Thermocouples, by the first refueling outage after July 1, 1985, for both units. These refueling outages are currently scheduled for May 9 through June 26, 1986, for Unit 1 and October 10 through December 7, 1986, for Unit 2. We are requesting a schedule extension until the end of the Unit 2 refueling outage (December 7, 1986) for Unit 1 to complete the training and provide the procedures necessary to support operability of the ERFDAS and the SPDS. In addition, Regulatory Guide 1.97 variables for Unit 1 will be completed on schedule with the exception of Variable Item A-3, Core Exit Thermocouples, and Variable Item A-8, High Pressure Safety Injection (HPSI) flow, for which we are also requesting an extension for completion to the end of the Unit 2 refueling outage.

Regulatory Guide 1.97

In our letter of February 21, 1984, we identified 20 specific variables which require modification in order to comply with Reg. Guide 1.97. We committed to complete these modifications by the end of the first refueling outages after July 1, 1985, for Surry Units 1 and 2. We expect to have these modifications installed on Unit 1 by the end of the Unit 1

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refueling outage, with the exception of two variables. HPSI flow indication is currently provided by a single channel. The planned modification will provide an additional channel of indication and qualified instrumentation. The hardware and associated electronics for the modification will be installed during the Unit 1 outage. However, the qualified flow transmitters will not be delivered in time to complete the modification until after the Unit 1 refueling outage. The transmitters can be installed during power operations and will be installed as soon as practical after delivery and QC acceptance.

The Core Exit Thermocouples (CET) will be utilized as an integral portion of the Inadequate Core Cooling Instrumentation System (ICCIS). During the upcoming Unit 1 outage, the upgraded CETs and the associated cables inside containment will be installed. By utilizing the existing electronics and display outside containment, the CETs will be operable. However, the upgraded (qualified) electronics and cabinets for the ICCIS, which includes the Reactor Vessel Level Indicating System, Subcooling Margin Monitor, and the CETs, will not be delivered in time to complete the installation by the end of the Unit 1 refueling outage. Installation of the electronics and cabinets for ICCIS can be accomplished during plant operation during a planned entry into the Limiting Condition for Operation (LCO) for the associated RVLIS technical specifications. Such installation is tentatively scheduled to be completed by September 1, 1986, providing no other delays in delivery are encountered. At that time, the ICCIS will be fully qualified and operational.

Attachment 1 identifies the modifications for the two R.G. 1.97 variables that cannot be completed by the end of the Unit 1 refueling outage. In addition the attachment identifies two modifications for R.G. 1.97 variables that will be completed this outage instead of during the 1988 refueling outage as we had previously notified you.


#### Safety Parameter Display System (SPDS)

By the end of the 1986 refueling outages for Units 1 and 2, the SPDS computer, the Data Acquisition System (DAS) including the data input connections, and the display units in the Emergency Response Facilities will be installed in accordance with the SPDS Safety Analysis submitted February 1, 1985 (Serial #044). Verification and validation of the Emergency Response Facilities Data Acquisition System for Unit 1 inputs will be completed by the end of the outage. At that time, the SPDS will be considered functional but not operable. For Unit 1, integration of the SPDS into the Emergency Operating Procedures and the associated

training of the operators and emergency response personnel cannot be completed by the end of the Unit 1 outage (June 26, 1986). Therefore, until initial training is completed and corresponding procedures updated or provided for, as necessary, the SPDS cannot be declared fully operable. Attachment 2 provides the current status of items associated with SPDS operability.

If you have any questions concerning the matter please contact us.

Very truly yours,



W. L. Stewart

Attachment

cc: Dr. J. Nelson Grace  
Regional Administrator  
NRC Region II

NRC Senior Resident Inspector  
Surry Power Station

Mr. Chandu P. Patel  
NRC Surry Project Manager  
PWR Project Directorate #2  
Division of PWR Licensing-A

## ATTACHMENT 1

## REGULATORY GUIDE 1.97

<u>VARIABLE TITLE</u>	<u>VARIABLE NUMBER</u>	<u>COMPLETION THIS OUTAGE</u>	<u>DISCUSSION</u>
HPSI Flow	A-8	No	Hardware and associated electronics will be installed during the outage except for the transmitters which will be subsequently installed during power operations. Item tentatively scheduled for delivery by September 1, 1986.
Core Exit Thermocouples	A-3	No	The upgraded CETs and associated cables will be installed inside containment during the upcoming outages. The qualified electronics, cables, and cabinets outside containment will be completed during subsequent plant operations. Item tentatively scheduled to be completed by September 1, 1986.
CCW Temperature to ESF system	D-30	Yes	This item was previously identified to be completed in our 1988 outage as indicated in our May 10, 1985 letter Serial No. 85-123A.
CCW Flow to ESF Systems	D-31	Yes	This item was previously identified to be completed in our 1988 outage as indicated in our May 10, 1985 letter Serial No. 85-123A.

ATTACHMENT 2

Status of SPDS Items

<u>Items</u>	<u>Status</u>
Multiplexer System	<p>The software will be verified by an independent contractor. The contractor will provide a validation report at the end of their verification. This will be completed by May 30, 1986.</p> <p>System hardware will be installed, verified, and calibrated to support operation by the end of the Unit 1 refueling outage.</p>
Procedures & Training - Control Room Operators	<p>Use of the SPDS for emergency and normal operation will be evaluated and incorporated in station procedures accordingly. Initial training will be included in the Licensed Operator Requalification Program and is scheduled to be completed by September 1, 1986. In response to the training related concerns expressed in IEIN 86-10, additional performance-based training will be developed and incorporated into station programs by January 1987.</p>
Procedures & Training of TSC, LEOF, CERC & CEOF personnel	<p>Procedures for and training of TSC, LEOF, CERC and CEOF personnel, as applicable, on the use of the SPDS and associated radiological/meteorological data and models is projected to be completed by October 31, 1986.</p>