

May 20, 1985



VIRGINIA POWER

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
Attn: Mr. H. L. Thompson, Jr., Director
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Serial No. 85-211
NO/HLM:acm
Docket Nos. 50-280
50-281
License Nos. DPR-32
DPR-37

Gentlemen:

VIRGINIA POWER
SURRY UNITS 1 and 2
RESPONSE TO GENERIC LETTER 83-28
REQUEST FOR ADDITIONAL INFORMATION
ITEMS 2.1.B, 2.2.2, 4.5.2

Your letter of March 13, 1985 requests additional detailed information about items 2.1.B, 2.2.2 and 4.5.2 of Generic Letter 83-28. The following information supplements our original November 4, 1983 (Serial No. 617) response and our revised response of February 8, 1985 (Serial No. 85-063):

Item 2.1.B Vendor Interface for Reactor Trip System

Our Vendor Information Program for Reactor Trip System components is an intergral part of the overall vendor information program for all Safety Related components. This information is provided for your review in response to item 2.2.2.

Item 2.2.2 Vendor Information for all Safety Related Systems

Your letter requests additional detailed information describing our Vendor Interface Program for all Safety Related components. The additional information should state how the program assures that vendor technical information is kept complete, current or most recent, and controlled throughout the life of the plant and how the program implements completeness of information, availability of latest possible information and control of information. The following supplements the February 8, 1985 description of the Vender Interface Program.

Program Description General Aspects

Our program aims at maintaining vendor technical information for Safety Related components complete, current and controlled throughout the life of the plant. The Vendor Information Program is controlled by Station Administrative procedures. These procedures address the maintenance of the vendor information.

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Program Assurance

Vendor information completeness is assured by a program which maintains current vendor supplied technical information. Maintaining current copies of vendor technical manuals provides the most significant portion of this program. The manuals contain information about equipment and its various components. A manual does not necessarily identify specific information related to the exact application of the equipment in our facility. However, the manuals are important reference material to assist in understanding the equipment and its components. The manuals are useful reference material for operation, repair and replacement of the equipment. It is the aim of our program to maintain vendor manuals in as complete a condition as possible.

Up to date vendor information is assured by including appropriate vendor supplied correspondence. Up to date information is provided in a variety of forms, for example, vendor Technical Bulletins comprise one of the methods of vendor notifications. In the specific case of Westinghouse Technical Bulletins, a formal interface has been established by which receipt of Westinghouse Technical Bulletin information is acknowledged. The acknowledgment is necessary to assure we have received their notices. For other vendors we have an ongoing review of their manuals to assure the vendor information is up to date.

Control of vendor information is assured by the use of Station administrative procedures. These procedures indicate how information is maintained accumulated, and distributed in order to assure its availability for use.

Program Implementation

Implementation of the program is provided by use of administrative controls. For Surry, administrative procedure 93 "Vendor Interface-Control of Vendor Documents" is utilized. The procedure outlines requirements for establishment of the vendor information files and control of the vendor information including changes and additions.

Establishment of vendor information is accomplished by indexing and listing vendor manuals with Safety Related Applications. In conjunction with station component classification procedures, the equipment vendor's name is cross-referenced to Safety Related components. The classification procedure identifies many components which are Safety Related, but does not identify all Safety Related components. Where components are not listed, an evaluation process is required. As part of our response to item 2.2.1 "Equipment Classification - all Safety Related Equipment", it is our plan to develop a more detailed listing of Safety

Related components. This improved listing will identify additional Safety Related components and associated vendor reference material and will add to the overall usefulness of the reference material. In addition to the establishment of vendor manuals, vendor files are also maintained and where vendor manuals are unavailable, vendor files established. Direct vendor contacts are also made to establish manuals or files where no manual or files information are available. For Surry, formal mailing to vendors supplying Safety Related equipment has been made requesting their latest information. In the event a vendor manual or a vendor file can not be established due to lack of vendor technical information, an evaluation is performed and supplemental information is provided.

Control of vendor information is accomplished by maintaining master copies or controlled copies of vendor manuals with Safety Related applications. Controlled distribution of manuals and files are made to various station departments as necessary. Control of manuals and file contents is accomplished by recommended revisions which are reviewed and approved by cognizant personnel.

Control of changes to vendor information is accomplished by control of vendor received correspondence. Vendor correspondence is tracked and necessary actions are determined by cognizant personnel. Changes are identified and the revised vendor information is filed and distributed for use.

Inclusion of appropriate vendor drawings in vendor manuals is under review. Control of vendor drawings is established and maintained by a master file and detailed indexing. The vendor drawings included in the vendor manual will be compared with the master vendor drawing file.

Station administrative procedures are under review and necessary revisions are planned. The revisions are to clarify and to provide more comprehensive instruction for vendor information control and distribution. The objective of the review is to improve the consistency of practices between our Surry and North Anna Administrative Controls.

NUTAC - Industry Wide Vendor Information

As reported in our 2-8-85 response, for those portions of the program related to the NUTAC, this portion remains under review and is planned for completion by 7-1-85.

Item 4.5.2 Reliability - On Line Testing

Your letter requests information stating whether or not our plant is currently designed to permit on-line testing of the Reactor Trip System. If it is not designed for on-line testing, make design modifications.

In accordance with our Updated Safety Evaluation Report, the Surry 1 and 2 Units are designed for on-line testing of the Reactor Trip Systems as described in Section 7.2.2.1.3 of the Surry Updated Final Safety Analysis Report.

"7.2.2.1.3 Reactor Trip Signal Testing

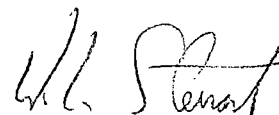
Provisions are made, for process variables, to manually place the output of the bistable in a tripped condition for "at power" testing of all portions of each trip circuit including the reactor trip breakers. Administrative procedures require that the final element in a trip channel (required during power operation) be placed in the trip mode before that channel is taken out of service for repair or testing so that the single-failure criterion is met by the remaining channels. In the source and intermediate ranges where the trip logic is one out of two for each range, bypasses are provided for this testing procedure.

Nuclear instrument power range channels are tested by superimposing a test signal on the sensor signal so that the reactor trip protection is not bypassed. Based upon coincident logic (two out of four) this will not trip the reactor.

Provision is made for the insertion of test signals in each analog loop. Verification of the test signal is made by portable instruments at test points specifically provided for this purpose. This enables testing and calibration of meters and bistables. Transmitters and sensors are checked against each other and against precision readout equipment when required during normal power operation."

If you should require additional information, please contact us.

Very truly yours,


W. L. Stewart

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

Mr. D. J. Burke
NRC Resident Inspector
Surry Power Station

Mr. Steven A. Varga
Chief Operating Reactors Branch No. 1
Division of Licensing