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ACCESSIGN NBR: 8404030224. DOC. DATE: 82/09/29 NOTARIZED: NO DOCKET #
 FACIL: 50-315 Donald C. Cook Nuclear Power Plant, Unit 1, Indiana & 05000315
 50-316 Donald C. Cook Nuclear Power Plant, Unit 2, Indiana & 05000316
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 DENTON, H.R. Office of Nuclear Reactor Regulation, Director

SUBJECT: Forwards description of technical support ctr (TSC) &
 revised conceptual design description of TSC plant safety
 status display in response to JG Keppler 820802 ltr & 820707
 mgt meeting.

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September 29, 1982
AEP:NRC:0531E

Donald C. Cook Nuclear Plant Unit Nos. 1 and 2
Docket Nos. 50-315 and 50-316
License Nos. DPR-58 and DPR-74
TECHNICAL SUPPORT CENTER

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Denton:

This letter responds to Mr. J. G. Keppler's letter of August 2, 1982 which confirmed that as a result of a management meeting conducted at the NRC Region III office on July 7, 1982, AEP had agreed to provide the following information:

- a. Formal conceptual design description of the Emergency Operations Facility (EOF) by August 1982,
- b. Revision to the site Emergency Plan by August 13, 1982, and,
- c. Additional information relating to the permanent TSC.

A formal conceptual design description of the EOF was submitted in our letter AEP:NRC:0531D dated August 27, 1982. The revision to the Donald C. Cook Nuclear Plant Emergency Plan was submitted by our letter AEP:NRC:0719 dated August 12, 1982. This letter and its attachments provide the additional information relative to the permanent TSC.

Attachment 1 to this letter is a description of the Technical Support Center for the Donald C. Cook Nuclear Plant. Attachment 2 to this letter contains a revised conceptual design description of the TSC Plant Safety Status Display (PSSD) previously submitted to you in AEP:NRC:0531A. You will note that there are a few minor changes to provide you with a more concise description of our PSSD System and eliminate a description of TSC and EOF functions which are described in the documents listed above. Changes are so indicated in the right hand margin.

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The information provided in Attachment 1 to this letter represents the Technical Support Center as we expect it to be by October 1, 1982. Changes may be required to accommodate unforeseen equipment problems, delivery schedules or experience gained with emergency plan drills and exercises. Revision 1 to the Emergency Plan will be tested in the Technical Support Center during our next emergency exercise planned for October 21, 1982.

We look upon these exercises as an opportunity to test our concept of emergency operations. We will modify our organizational concepts and emergency response facility design as necessary based on the experience gained.

We have been informed by our supplier (Westinghouse) that despite the fact that they are making every effort to meet the October 1, 1982 date, they do not expect to be able to provide us with an operational PSSD (Plant Safety Status Display) terminal for Unit 1 in the Emergency Operations Facility until approximately 1½ months after the PSSD in the TSC is operational. This is due for the most part to difficulties encountered in getting the TSC PSSD final software started up and tested. A completely operational TSC PSSD is needed before the EOF PSSD requirements can be incorporated into the system. We are in the process of doing preoperational tests on various EOF information and display systems. We are proceeding to expeditiously solve those start up problems that we encounter in the testing process. Testing and correction of problems will extend beyond the October 1, 1982 date indicated in our letters No. AEP:NRC:0715, dated July 30, 1982, and No. AEP:NRC:0531D, dated August 27, 1982.

This document has been prepared following Corporate procedures which incorporate a reasonable set of controls to ensure its accuracy and completeness prior to signature by the undersigned.

Very truly yours,



R. S. Hunter
Vice President

RSH/sag
Attachment

cc: John E. Dolan - Columbus
M. P. Alexich
R. W. Jurgensen
W. G. Smith, Jr. - Bridgman
R. C. Callen
G. Charnoff
Joe Williams, Jr.
NRC Resident Inspector at Cook Plant - Bridgman

ATTACHMENT 1
TO
AEP:NRC:0531E

Acc.# 8404030224

DONALD C. COOK NUCLEAR PLANT
TECHNICAL SUPPORT CENTER (TSC)

Design of the TSC

This is a description of the Technical Support Center (TSC) for the Donald C. Cook Nuclear Plant. A description of the Emergency Response Organization, how that organization would be mobilized to activate and staff the Technical Support Center, and how it would interact with other response facilities is provided in Revision 1 to the Donald C. Cook Nuclear Plant Emergency Plan, dated August 13, 1982 (Section 12.3.9.4), submitted to the NRC by our letter AEP:NRC:0719 dated August 12, 1982.

The Donald C. Cook Nuclear Plant TSC is a two story structure located in the Turbine Building adjacent to the two control rooms. This location readily allows for face-to-face interaction between the control room personnel and the senior plant management in the TSC. Because of the proximity of the TSC to the control room it will normally take less than 2 minutes to travel from one facility to the other. The lower level of the TSC (elev. 633') is comprised primarily of the Shift Supervisor's Office, the TSC Computer room and a file room. The upper level (elev. 643') houses the Plant Evaluation Team area which contains the computer consoles described in Attachment 2 herein, the dose assessment and communications area, and a separate office with sufficient working space for five (5) NRC representatives that can be used for private NRC personnel consultations. The staffing and utilization of the TSC has already been tested in drills and exercises with the result that there is sufficient space for plant emergency personnel to perform their assigned functions. Figure 1 is a layout diagram of the TSC; please note that changes to the arrangements of displays and furniture may be made to facilitate our operations.

The TSC has been constructed to provide the same degree of radiological habitability as the control room under accident conditions. Concrete shielding has been provided to significantly reduce the effects of containment building shine during an accident. Radiation monitoring has been provided to indicate radiation dose rates as well as airborne radioactivity levels including radioiodines.

The Donald C. Cook Nuclear Plant TSC has been designed to:

- 1) Provide plant management and technical support to plant operations personnel during emergency conditions.

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- 2) Relieve the reactor operators of peripheral duties and communications not directly related to reactor system manipulation.
- 3) Prevent congestion in the control room.
- 4) Perform EOF functions for an Emergency "Alert", and for a "Site" Emergency and a "General" Emergency until the EOF is functional.

The following communications systems have been provided in the TSC:

- . Plant Fire and Emergency Radio to communicate with the radiation monitoring teams as well as with any in-plant teams.
- . Dedicated line on the NRC Health Physic network and two dedicated lines on the NRC Emergency Notification System.
- . Plant intercom/PA system
- . Dedicated communication circuit to the control room and Emergency Operations Facility.
- . Facsimile transmission capability
- . 2 Extensions off the Visitors Center phones for the purposes of news releases/public information to the news media
- . 2 private lines off of D. C. Cook PBX dedicated for NRC use with outside capability.
- . Additional telephones to be used as needed.

In general, the TSC will be operational by October 1, 1982. However, due to delays in delivery, the Heating, Ventilation and Air Conditioning system for the private NRC office, may not be operational at that time. Other problems do exist with the processing of signals and with the final operability of the display terminals. We are proceeding to remedy the problems we are encountering as expeditiously as possible. As of now, however, we do not have a date by which all problems will be resolved.

The data display terminals in the TSC will provide the capabilities described in Attachment 2 herein. A description of these data display terminals in the EOF is provided in AEP:NRC:0531D dated August 27, 1982.

The schedule for the installation and operation of the different display terminals is:

1. MIDAS TERMINAL

To access and fully utilize the MIDAS (Meteorological Information and Data Acquisition System) system a Tektronix Graphics Display Terminal and Hard Copy Unit will be available in the TSC. The equipment is scheduled to be installed by October 30, 1982. This equipment is being shipped to the Plant from the AEPSC offices in New York.

2. CPM002 TERMINAL

CPM002 is accessed through the Time Sharing Option (TSO). An IBM CRT is currently available in the TSC.

3. RADIATION DATA DISPLAY SYSTEM

Delivery of color graphic CRTs for the TSC and EOF are expected in October. The CRTs will be connected to the Plant Radiation Monitoring System control terminals via modems and redundant communication channels.

4. PLANT SAFETY STATUS DISPLAY (PSSD)

The purchase order for the PSSD as well as other post-accident monitoring displays in the TSC was placed with Westinghouse on May 22, 1980. It is our belief that due to difficulties our supplier (Westinghouse) is experiencing in developing the software for the TSC computer, we will not have an operational PSSD by the expected date of October 1, 1982.

In the event that all the terminals described above are not operational by October 1, 1982 we will perform the functions as we have in the past (that is, by telephone communications and use of parameter data forms). The adequacy of this mode of operation was demonstrated during our last full-scale emergency exercise of March 30, 1982.

The TSC will not contain, but will have ready access to plant records, drawings and other documentation as required. In addition the TSC will be in communication with technical support personnel in the Engineering EOF (located in the AEPSC offices in New York) during the initial phase of the event until the EOF in Benton Township is activated. Revision 1 to the Emergency Plan provides a more detailed description of our concept of operation of our Emergency Response Facilities.

ATTACHMENT 2
TO
AEP:NRC:0531E