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Commonwealth Edison Company

ONE FIRST NATIONAL PLAZA ★ CHICAGO, ILLINOIS

Address Reply to:

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December 17, 1970

Dr. Peter A. Morris, Director
 Division of Reactor Licensing
 U.S. Atomic Energy Commission
 Washington, D.C. 20545

Subject: Status of Construction of Dresden Unit 3

Dear Dr. Morris:

On December 22 the construction of Dresden Unit 3 will be complete with the exception of the items listed below. The purpose of this letter is to indicate those items which will not be complete on December 22 and to request a waiver so that fuel loading can be started. In our opinion, completion of these items is not required for fuel loading and will have no affect on the health and safety of the public.

- 1 - Main Power Transformer - On December 7, 1970, the main power transformer at Dresden Unit 2 failed. In order to return Unit 2 to the system at the earliest possible date, we have decided to install the Unit 3 main power transformer in the Unit 2 position. The Unit 3 transformer will be replaced with the main power transformer from Quad-Cities Unit 2. These transformers are duplicates and are electrically and mechanically interchangeable. The Quad-Cities Unit 2 transformer is now on the barge and will be shipped to Dresden via the Mississippi and Illinois Rivers. It is expected that installation of this transformer at Unit 3 will be completed between January 15 and 20. The auxiliary electrical systems at Dresden 3 will be equal to or greater than the limiting conditions for operation for start-up established in the technical specifications.
- 2 - Reactor Feedwater System - To prevent fatigue failures of the feedwater pump impellers, which has been experienced with the Unit 2 pumps, various pump and related system modifications are planned for the Unit 3 system. Following is the schedule for these modifications.

The pump casing will be modified. This modification will be complete by December 22. The casing modification increases the impeller to casing clearances in the radial and axial directions.

As of December 22 the pumps will be disassembled for the installation of the redesigned pump rotors. Redesigned pump rotors will be installed as they become available from the manufacturer. These rotors will have five-vane impellers, smaller second stage impellers, and heavier first and second stage impellers.

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On December 22 the feedwater pump main flow recirculation system will be in the process of modification. The modification includes substituting a larger valve and pressure breakdown piping to increase the capacity of the bypass flow system. The feedwater recirculation system modifications will be complete for plant start-up.

The regulating system will be modified by substituting a larger bypass valve which will utilize automatic/manual flow control.

- 3 - A/C Interlock (automatic blowdown pressure system) - On December 22 this system will be installed and operable as described in the FSAR Amendments 16/17, except that the pressure switch circuits will not be redundant. The redundant pressure switch circuits will be completed when the necessary pressure switches are available from the manufacturer.

The annunciator circuit, which annunciates failure of any of the existing pressure switches, is now operable.

- 4 - Primary Containment Leak Detection System - Leakage from the primary system into the primary containment will be determined by daily monitoring of the radioactivity of the primary containment atmosphere.

On December 22 sampling systems will be installed and operating with the exception that a continuous sample may not be available. It has been found from the operation of the Unit 2 leak detection system that the available flow registering sampler could not pull a sample through the installed piping. Correction of this Unit 2 deficiency is in progress. Any modifications made to the Unit 2 system will be incorporated on Unit 3 when it has been determined that these fixes resolve the present problems.

- 5 - Main Steam Line Isolation Valve Temperature Monitoring - Technical Specification 4.7.D.4 requires the temperature of the main steam line isolation pilot valves be recorded daily. The thermocouples for monitoring these temperatures have been ordered and are currently available at the plant site. The installation will be completed by the time the reactor head is installed.
- 6 - Primary Containment Hydrogen Monitors - In Amendment 24 to the FSAR, we indicated that we would install instrumentation to monitor the hydrogen concentration in the drywell during a loss of coolant accident. The design of this instrumentation is scheduled for completion some time in March. We cannot estimate, at this time, when equipment will be available and thus, when the installation will be complete. However, indications are that such instrumentation will be installed on a reasonable schedule.

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In addition to three signed originals, 19 copies of this letter are also submitted.

Very truly yours,

Byron Lee Jr.

Byron Lee, Jr.
Assistant to the President

SUBSCRIBED and SWORN to
before me this 17th day
of December, 1970.

Patricia A. Nelson
Notary Public