



Nebraska Public Power District

GENERAL OFFICE
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December 27, 1979

Office of Nuclear Reactor Regulation
Attn: William Gammill, Acting Assistant Director
Division of Operating Reactors, Projects
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Subject: Station Electrical Distribution System Voltage
Cooper Nuclear Station
NRC Docket No. 50-298, DPR-46

Reference: 1) Letter from W. Gammill to All Power Reactor Licensees
Dated August 8, 1979, "Adequacy of Station Electric
Distribution Systems Voltages"

2) Letter from J. Pilant to W. Gammill
Dated October 8, 1979, same subject

Dear Mr. Gammill:

Reference 1 requested Nebraska Public Power District to submit a voltage drop analysis for Cooper Nuclear Station, and Reference 2 informed the NRC of the expected submittal date. Attached is the completed "Voltage Drop Analysis Computations" conducted in accordance with the NRC guidelines contained in Reference 1. The analysis indicates the following:

1. The offsite power system and the onsite distribution system for Cooper Nuclear Station is of sufficient capacity and capability to automatically start as well as operate all required safety loads within their voltage ratings in the event of: 1) an anticipated transient (such as a unit trip); or 2) an accident (such as a LOCA).
2. The electrical power systems for Cooper Nuclear Station do not have any potential for any events or conditions which could result in the simultaneous or consequential loss of both required circuits to the offsite network in violation of GDC-17 in this regard.

The NRC requested that testing be performed to provide additional verification of the adequacy of the station electrical distribution system. Testing methods are presently being studied in light of the favorable analytical results. A description of the method used to perform this verification will be provided approximately May 30, 1980.

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William Gammill
December 27, 1979
Page 2

If you have any questions relative to the enclosed analysis, please do not hesitate to contact me.

Very truly yours,

Original Signed By:
JAY M. PILANT

Jay M. Pilant
Director of Licensing
and Quality Assurance

JDW/cmk

Attachment

bcc: L. C. Lessor w/2 copies of analysis
J. W. Hagge- w/1 copy of analysis
J. R. Philbrick w/o analysis
NRC Distribution w/o analysis

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