

Docket Nos.: 50-440
and 50-441

JUL 26 1985

Mr. Murray R. Edelman, Vice President
Nuclear Operations Group
The Cleveland Electric Illuminating Company
P. O. Box 5000
Cleveland, Ohio 44101

Dear Mr. Edelman:

Subject: Deletion of SER License Condition (9) Pertaining to the Perry
Nuclear Power Plant (Units 1 and 2)

The enclosed evaluation, which we propose to incorporate into the next Perry SER supplement, presents the findings of the staff's review of information documented in your letter dated July 9, 1985 (and communicated in a subsequent telephone call on July 15, 1985), relative to the subject license condition. The findings conclude that SER License Condition (9) be deleted since appropriate measures will be taken by CEI to preclude excessive wear of the HPCS diesel generators, by maintaining the HPCS diesel generator room temperature at a minimum of 40° F.

Sincerely,


for

B. J. Youngblood, Chief
Licensing Branch No. 1
Division of Licensing

Enclosure: As stated

cc: See next page

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Docket File

NRC PDR

Local PDR

PRC System

NSIC

LB#1 R/F

MRushbrook

JStefano

OELD

ACRS (16)

JPartlow

BGrimes

EJordan

LSRubenstein

MSrinivasan

AUngaro

RGiardina

JKnight

LB#1/DL

JStefano/mac

07/16/85

LB#1/DL

BJYoungblood

07/24/85

8508050367 850726
PDR ADCK 05000440
E PDR

Mr. Murray R. Edelman
The Cleveland Electric
Illuminating Company

Perry Nuclear Power Plant
Units 1 and 2

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ENCLOSURE

SUPPLEMENTAL SAFETY EVALUATION REPORT
POWER SYSTEMS BRANCH
PERRY NUCLEAR POWER PLANT
UNIT NUMBERS 1 AND 2
DOCKET NUMBER 50-440 AND 441

9.6.4 EMERGENCY AND HPCS DIESEL ENGINE COOLING WATER SYSTEM

The Perry SER (NUREG - 0887 dated June, 1982) contains the following licensing condition with regards to the preheating capability of the HPCS DG Systems:

"In a letter dated April 29, 1982, the applicant proposed a test program of a minimum of 24 months to demonstrate the HPCS diesel engine's capability to start and accept load within 10 sec during low ambient (40°-65°F) temperatures. The test will be performed during preoperational testing, the monthly surveillance tests, and diesel engine maintenance periods to demonstrate that the HPCS diesel engine does not experience undue wear or degradation of performance when started at the low room temperatures, and that upgrading the preheating capability of the engine to improve first-start reliability is not necessary. At the end of the test period (24 months), the results will be submitted to the staff for review and evaluation. At that time a determination will be made on whether sufficient test data has been presented for the staff to determine that the present design is adequate or that a modification to the diesel engine preheating system is necessary. If insufficient data is available, the applicant has agreed to extend the test program as necessary to obtain an adequate data base. The staff finds the proposed test program acceptable and will make it a condition of the license."

The applicant in a letter dated July 9, 1985, and a telephone conversation on July 15, 1985 provided additional information on the capability of the HPCS (EMD) diesel generators and has requested removal of license condition 9 from the Perry SER. The applicant stated the HPCS (EMD) diesel engines at Perry are qualified to start within 10 seconds and operate reliably within a room temperature environment down to 40°F. The HPCS diesel generator room will be maintained at a minimum temperature of 40°F, and if the temperature should fall below 40°F it would be alarmed in the control room, where upon the

operator would take immediate remedial action to restore room temperature at 40°F. In addition, to further assure HPCS diesel generator availability, a diesel generator trouble alarm is provided in the control room, with local alarm status to warn the operators of improper operation of several diesel engine support functions, including a low engine lube oil temperature condition and keep warm system power failure.

The capability of the EMD diesel generators to start within 10 seconds and operate reliably within a room environment temperatures of 40°F and lower has been demonstrated at a nuclear facility which has similar HPCS diesel generator as Perry.

Based on the above, the staff believes that there is adequate assurance that the HPCS (EMD) diesel generator at Perry will start and operate reliably under all anticipated conditions, and concurs with the applicants request to remove license condition 9 from the Perry SER.