DCR 016

September 11, 1986

Docket No. 50-255
Mr. Kenneth W. Berry
Director, Nuclear Licensing
Consumers Power Company
1945 West Parnall Road
Jackson, Michigan 49201

Docket File	LTremper
NRC PDR	LFMB
L PDR	ACRS-10
SECY	WJones
PBD#8 Rdg	TBarnhart-4
FMiraglia	BGrimes
PMKreutzer-3	EJordan
	LJHarmon
OELD	WRegan
Gray File +4	OPA

Dear Mr. Berry:

On August 21, 1986 the Commission issued Amendment No. 97 to Provisional Operating License No. DPR-20 for the Palisades Plant in response to your application dated March 17, 1986. The amendment changed the Technical Specifications by revising pressure-temperature limits for heatup, cooldown and hydrostatic tests of the reactor vessel to account for radiation effects. It also extended the limits from 6.6 effective full power years to approximately 9.0 EFPY.

Reference to footnote (11) was inadvertently omitted from TS page 3-5 transmitted with the amendment. A corrected page 3-5 is enclosed.

Please accept our appologies for any inconvenience this clerical error may have caused you.

Sincerely,

/s/

Thomas V. Wambach, Project Manager
PWR Project Directorate #8
Division of PWR Licensing-B

Enclosure:
TS page 3-5

cc w/enclosure:
See next page

PBD#8:DL	PBD#8:DL	PBD#8:DL
PMKreutzer	TWambach;eh	AThadani
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Mr. Kenneth W. Berry
Consumers Power Company

Palisades Plant

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3.1.2 Heatup and Cooldown Rates (Cont'd)

(3) The limit lines in Figures 3-1, 3-2 and 3-3 are based on the requirements of Reference 9, Paragraphs IV.A.2 and IV.A.3. These lines reflect a preservice hydrostatic test pressure of 2400 psig and a vessel flange material reference temperature of 60°F[8].

Basis

All components in the primary coolant system are designed to withstand the effects of cyclic loads due to primary system temperature and pressure changes.[1] These cyclic loads are introduced by normal unit load transients, reactor trips and start-up and shutdown operation. During unit start-up and shutdown, the rates of temperature and pressure changes are limited. A maximum plant heatup and cooldown rate of 100°F per hour is consistent with the design number of cycles and satisfies stress limits for cyclic operation.[2]

The reactor vessel plate and material opposite the core has been purchased to a specified Charpy V-Notch test result of 30 ft-lb or greater at an NDTT of + 10°F or less. The vessel weld has the highest RT_{NDT} of plate, weld and HAZ materials at the fluence to which the Figures 3-1, 3-2 and 3-3 apply.[10] The unirradiated RT_{NDT} has been determined to be -56°F.[11] An RT_{NDT} of -56°F is used as an unirradiated value to which irradiation effects are added. In addition, the plate has been 100% volumetrically inspected by ultrasonic test using both longitudinal and shear wave methods. The remaining material in the reactor vessel, and other primary coolant system components, meets the appropriate design code requirements and specific component function and has a maximum NDTT of +40°F.[5]

As a result of fast neutron irradiation in this region of the core, there will be an increase in the RT with operation. The techniques used to predict the integrated fast neutron (E > 1 MeV) fluxes of the reactor vessel are described in Section 3.3.2.6 of the FSAR and also in Amendment 13, Section II, to the FSAR.