



**Consumers  
Power**

**POWERING  
MICHIGAN'S PROGRESS**

Palisades Nuclear Plant: 27780 Blue Star Memorial Highway, Covert, MI 49043

**G B Slade**  
*General Manager*

April 10, 1992

Nuclear Regulatory Commission  
Document Control Desk  
Washington, DC 20555

DOCKET 50-255 - LICENSE DPR-20 - PALISADES PLANT - CORRECTION FACTOR FOR  
IRRADIATION TEMPERATURE BELOW 525° - PRESSURIZED THERMAL SHOCK - 10CFR50.61 -  
ADDITIONAL INFORMATION

Revision 1, dated April 2, 1992, of Consumers Power Company's March 11, 1992  
letter contained a typographical error on the first page (234°F as the estimated  
future T-Cold instead of the correct value of 534°F) and inadvertently changed  
the heat number for one group of data points plotted in Figure 1 to 34B009  
instead of leaving the correct heat number 27204 intact.

This letter transmits a corrected Page 1 and a corrected Figure 1. The first  
page and Figure 1 of our April 2, 1992 letter on this subject should be replaced  
with the enclosed corrected first page and Figure 1.

Gerald B Slade  
General Manager

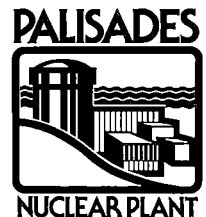
CC Administrator, Region III, USNRC  
NRC Resident Inspector - Palisades

Enclosures

*AOA9  
11*

9204170044 920410  
PDR ADDCK 05000255  
P PDR

*A CMS ENERGY COMPANY*



PLEASE RETURN COMMENTS TO RWSMEDLEY BY 4/10/92

LICENSING CORRESPONDENCE\COMMITMENT TRACKING RECORD SUMMARY

**DATE:**

**DOCKET 50-255 LICENSE DPR-20 - PALISADES PLANT - CORRECTION FACTOR FOR IRRADIATION TEMPERATURE BELOW 525°F - PRESSURIZED THERMAL SHOCK - 10CFR50.61 - ADDITIONAL INFORMATION**

**SUMMARY:** Corrects typographical error on Page 1 (was 234°F instead of the correct 534°F estimated T-Cold) and corrects heat number on Figure 1 (was 34B009 instead of the correct 27204).

Previous  
NRC Letters Dated:

LC \_\_\_\_\_  
LC \_\_\_\_\_  
LC \_\_\_\_\_

Previous  
CPCo Letters Dated:

12/16/91 LC \_\_\_\_\_  
03/11/92 LC \_\_\_\_\_  
04/12/92 LC \_\_\_\_\_

UFI NO: 950-0211/2111  
950-21430

Originator:  
RWSmedley

Concurrences:

Concurrences:

Individuals  
Providing Info:  
JRKneeland

Special  
Distribution:

DWJoos, P-26-117B  
WJBeckius, P-24-418  
TABuczynski, Pal

GHGoralski, Pal  
OPJolly, Pal  
PDFlenner, P-24-405

PSE LOG  
PRC MTG  
NPAD LOG

COMMITMENT TRACKING

COMMITMENTS MADE:

None.

Assigned Individual:  
Related CA Document No:  
Commitment To Be Made Resident?

CTS Commitment No: \_\_\_\_\_  
Resident Document: \_\_\_\_\_

COMMITMENTS CLOSED:

None

Related CA Document No:

CTS Commitment No: \_\_\_\_\_

Additional Information Needed for CTS Entry:

System Code: RVG \_\_\_\_\_

Suggested Keywords: R.G. 1.99 10CFR50.61 PTS embrittlement \_\_\_\_\_

Measured RT<sub>NDT</sub> Shift for Surveillance Data vs. Calculated Using Palisades Chemistry

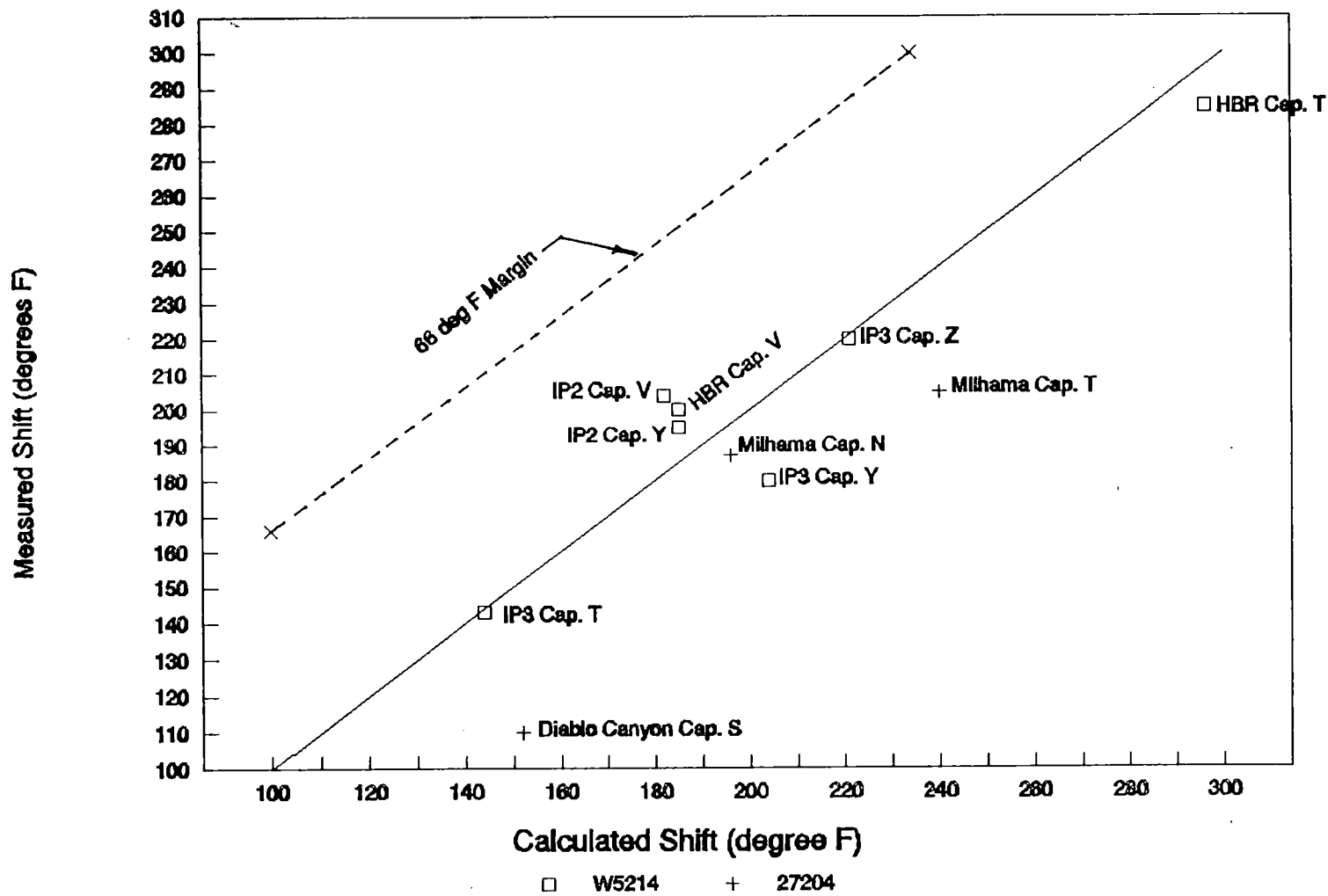


Figure 1

Updated 4/10/92



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DOCKET 50-255 - LICENSE DPR-20 - PALISADES PLANT - CORRECTION FACTOR FOR IRRADIATION TEMPERATURE BELOW 525°F - PRESSURIZED THERMAL SHOCK - 10CFR50.61 - REVISION 1

Consumers Power Company's March 11, 1992 letter addressed the propriety of not using an irradiation temperature correction factor when applying Regulatory Guide (RG) 1.99, Revision 2, approved methodology to determine  $RT_{PTS}$  for the Palisades reactor vessel beltline material. Although, early in life, that beltline material was irradiated at temperatures below the RG 1.99, Revision 2, applicable temperature range (525°F - 575°F), four reasons for not applying an irradiation temperature correction factor were provided.

This revision to our March 11, 1992 letter provides supplemental information which: (1) includes the girth weld when computing a weighted average irradiation temperature (Reason 2 below); (2) explains why we estimated 534°F as T-Cold from the present to the time when the screening criterion limit will be exceeded; and (3) identifies the data plotted in Figure 1. Additionally, this revision corrects minor errors in the original letter including the number of CE and Westinghouse plants used in RG 1.99, Revision 2, Reference 2 (should be 42 rather than 44) and the reactor vessel plate fluence value and resulting computed chemistry factor stated in Reason 4 below. Vertical lines in the right margin indicate where changes are made to include the supplemental information and corrections.

Section C.1.3 of Regulatory Guide (RG) 1.99, Revision 2, states that calculation procedures utilizing the equations in the Guide are valid for a nominal irradiation temperature of 550°F; and, that irradiation below 525°F should be considered to produce greater embrittlement and a correction factor justified by reference to actual data should be used.

A preliminary search of Palisades records indicated that, during Cycle 1 and the first half of Cycle 2, the plant operated with a T-average program which

Updated April 10, 1992

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