LICENSEE EVENT REPORT

CONTROL BLOCK

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

LICENSEE CODE | LICENSE NUMBER | LICENSE TYPE

REPORT SOURCE | DOCKET NUMBER

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES

An error was discovered in the [illegible]

in peak clad temperature of 13F. [illegible]

SYSTEM CODE: ZZ | CAUSE CODE: A | CAUSE SUBCODE: F

LER/RO REPORT NUMBER | EVENT YEAR: 83 | SEQUENTIAL REPORT NO.: 001

ACTION TAKEN: X | FUTURE ACTION: X | EFFECT ON PLANT: Z | SHUTDOWN METHOD: 2 | HOURS: 0000

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS

Input error into one of the codes used in the [illegible] analysis. [illegible]

FACILITY STATUS: G | % POWER: 000 | OTHER STATUS: NA

ACTIVITY CONTENT | AMOUNT OF ACTIVITY: NA

February 18, 1983
Attachment

NORTHERN STATES POWER COMPANY
PRAIRIE ISLAND NUCLEAR GENERATING PLANT

LER 83-001/01T-0

__Event Description__

On February 4, 1983, Exxon [illegible] the codes used in the ECCS analysis [illegible] Prairie Island units was discovered. [illegible] peak clad temperature (PCT) of 13°F. [illegible] greater than 2190°F, which means [illegible] 2200°F limit.

With the 13°F error in PCT included, Exxon [illegible] portion of fuel exposures sufficient PCT [illegible] present F_Q limit of 2.21. The exceptions [illegible] standard fuel) at greater than [illegible] TOPROD fuel at beginning of life. Exxon [illegible] F_Q limit will assure that the 2200°F will not [illegible] core. (Calculations indicate a 1% reduction [illegible] concludes that operation of the current cycles [illegible] within acceptable ECCS evaluation criteria.

A review of power distribution measurements on Prairie Island [illegible] for all cycles containing Exxon fuel, has been [illegible] if and when a 1% penalized F_Q limit was exceeded. For Unit [illegible] F_Q limit was not exceeded throughout cycles [illegible] Unit 1 the 1% penalized limit was not exceeded [illegible] However, on the current cycle 8 this [illegible] map number 108-10 by 0.9%. Map 108-10 [illegible] measurement taken on Unit 1 and [illegible] cycle 8. Map 108-10 was [illegible] occurred in a fresh Exxon [illegible] the time of the discovery.

__Cause Description and [illegible]__

1. [illegible]

2. [illegible] flux mapping. [illegible] assure compliance [illegible]

3. [illegible]

NSP

Northern States Power Company

February 18, 1983

Regional Administrator
Region III
U S Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
Docket No. 50-282 License No. DPR-42

Error Found in Exxon ECCS Analysis

The License Event Report for this occurrence is attached.

This event is reported in compliance with Technical Specification 6.7.B.1.h since errors were discovered in the transient or accident analyses or in the methods used for such analyses as described in the safety analysis report or in the bases for the technical specifications that have or could have permitted reactor operation in a manner less conservative than assumed in the analyses.

for Thomas [illegible]
David Musolf
Manager - Nuclear Support Services

DMM/TMP/jo

cc: NRC Document Control Desk (1)
NRC Resident Inspector
MPCA
Attn: J W Ferman

Attachment