

NSP

NORTHERN STATES POWER COMPANY

MINNEAPOLIS, MINNESOTA 55401

October 16, 1979

Director of Nuclear Reactor Regulation
U S Nuclear Regulatory Commission
Washington, DC 20555

PRAIRIE ISLAND NUCLEAR GENERATING PLANT
Docket Nos. 50-282 License Nos. DPR-42
50-306 DPR-60

Revision to Primary and Secondary
Coolant Activity Technical Specifications

This is to confirm that NSP committed to the NRC Regulatory Staff, at a meeting on October 12, 1979, to submit a license amendment request within 30 days to adopt primary and secondary coolant activity Technical Specifications for the Prairie Island plant. The proposed Technical Specifications will be based upon the current standardized Technical Specifications for these parameters, modified as necessary to conform to existing Prairie Island Technical Specification format and current operational and surveillance practices.

In the interim, NSP has committed to implementation of the primary coolant iodine activity limits and actions contained in Attachment A to this letter. These limits and actions will be implemented for Prairie Island Units No. 1 and 2 prior to return to power of Unit No. 1 which is currently shut down.

L.O. Mayer

L O Mayer, PE
Manager of Nuclear Support Services

LOM/ak

cc: J G Keppler
G Charnoff
MPCA
Attn: J W Ferman

Attachment

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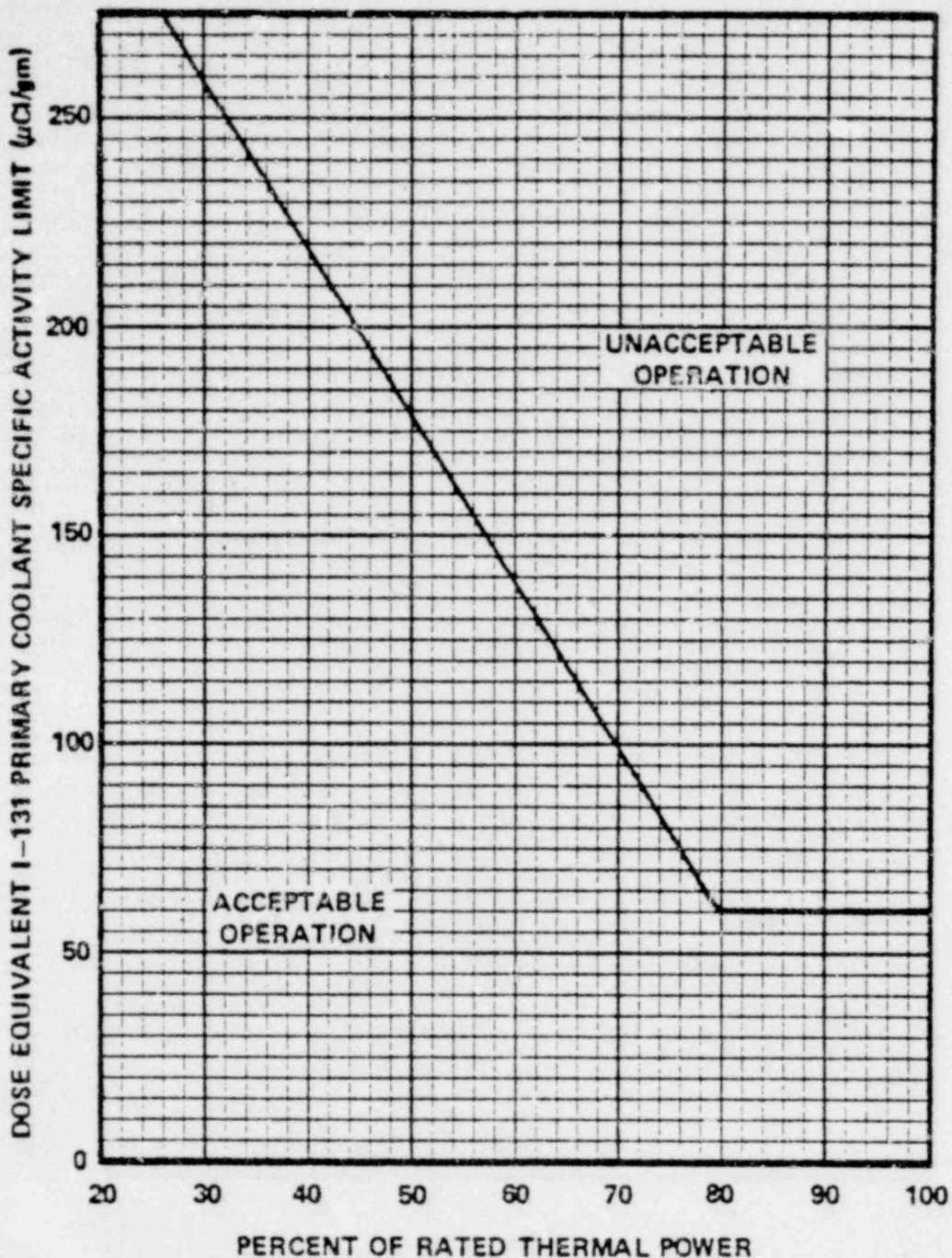
Attachment A

PRAIRIE ISLAND NUCLEAR GENERATING PLANT

Interim Limit on Primary
Coolant Iodine Activity

1. The specific activity of the primary coolant shall be limited to:

Less than or equal to 1.0 microcuries per gram DOSE EQUIVALENT I-131.
2. DOSE EQUIVALENT I-131 is that concentration of I-131 (uCi/gram) which alone would produce the same thyroid dose as the quantity and isotopic mixture of I-131, I-132, I-133, I-134, and I-135 actually present. The thyroid dose conversion factors used for this calculation shall be those listed in Table III of TID-14844, "Calculation of Distance Factors for Power and Test Reactor Sites."
3. If a reactor is at or above hot standby and T_{avg} is greater than or equal to 500°F:
 - (a) With the specific activity of the primary coolant greater than 1.0 microcurie per gram DOSE EQUIVALENT I-131 but within the allowable limit (below and to the left of the line) shown on Figure 1, operation may continue for up to 48 hours provided that the cumulative operating time under these circumstances does not exceed 800 hours in any consecutive 12-month period. With the total cumulative operating time at a primary coolant specific activity greater than 1.0 microcurie per gram DOSE EQUIVALENT I-131 exceeding 500 hours in any consecutive 6-month period, a special report to the Commission shall be submitted within 30 days indicating the number of hours above this limit.
 - (b) With the specific activity of the primary coolant greater than 1.0 microcurie per gram DOSE EQUIVALENT I-131 for more than 48 hours during one continuous time interval or exceeding the limit line shown on Figure 1, the affected reactor shall be placed in HOT STANDBY with T_{avg} less than 500°F within 6 hours.



DOSE EQUIVALENT I-131 Primary Coolant Specific Activity Limit Versus Percent of RATED THERMAL POWER with the Primary Coolant Specific Activity > 1.0 μCi/gram Dose Equivalent I-131

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FIGURE 1