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Operating License DPR-58 Docket # 50-315

April 4,

Mr. J. G. Keppler, Regional Director Office of Inspection and Enforcement U. S. Nuclear Regulatory Commission Region III 799 Roosevelt Road Glen Ellyn, Il 60137

Dear Mr. Keppler:

This report is submitted persuant to the requirement of Appendix A Technical Specification 3.4.8 and 6.9.1. On March 7, 1978, the dose equivalent iodine-131 activity in Unit 1 reactor coolant system was found out of specification.

At 1003 on March 7, 1978 Unit 1 reactor tripped from 100% power. Immediately following the trip, letdown purification flow was increased to its maximum. Analysis at 1130 on March 7, 1978, indicated dose equivalent iodine-131 at 1.025 μ Ci/cc. Maximum dose equivalent iodine-131 concentration was detected at 1345 to be 1.046 μ Ci/cc*. Dose equivalent iodine-131 remained out of specification until 1440. All additional sample analysis indicated the reactor coolant dose equivalent iodine-131 remained in specification and was decreasing. No additional spiking was noted during the subsequent reactor startup. No degassing . operations were associated with this event.

Iodine release at this time period is consistent with data reported in Westinghouse Electric Corporation WCAP-8637, "Iodine Behavior under Transient Conditions in the Pressuirzed Water Reactor". Dose equivalent iodine-131 values were in the "Acceptable Operation" portion of Technical

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April 4, 1978 Mr. J. G. Keppler Page Two

Specification Figure 3.4.1 at all times during the transient. Fuel burnup by core region and all additional data is indicated in the attached table/graphs.

* Coolant samples are brought to ambient conditions prior to counting, therefore, units of μ Ci/g and μ Ci/cc are considered interchangeable.

Very truly yours,

reseaso

for D. V. Shaller Plant Manager

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attachments

R. W. Jurgensen cc: J. E. Dolan R: Kilburn R. F. Kroeger R. J. Vollen, BPI K. R. Baker, RO: III P. W. Steketee, Esq. R. C. Callan R. Walsh, Esq. G. Olson J. Stietzel PNSRC File G. Charnoff, Esq. J. M. Hennigan Dir, IE (20 copies) Dir, MIPC (2 copies)

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UNIT NO. 1

CYCLE NO. 2

Fuel Burnup by Core Region

REGION NO.	ÉURNUP FOR PERIOD (MWD/MTU)	CUMULATIVE BURNUP (MWD/MTU)	ENERGY FOR PERIOD . (BTU)	CUMULATIVE ENERGY (BTU)
1	0.1871E+04	0.9543E+04	0.4267E+13	0.2176E+14
2	0.1799E+04	0.2802E+05	0.4290E+13	0.6681E+14
3	0.2053E+04	0.2397E+05	0.4867E+13	0.5685E+14
CORE TOTAL	0.1908E+04	0.2067E+05	0.1342E+14	0.1454E+15



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