

Regulatory Docket File



**Consumers
Power
Company**

General Offices: 212 West Michigan Avenue, Jackson, Michigan 49201 • Area Code 517 788-0550

February 3, 1975

Division of Reactor Licensing
US Nuclear Regulatory Commission
Washington, DC 20545

Re: Docket 50-255
License DPR-20
Palisades Plant
Effluent Report

Gentlemen:

Attached is the December 1974 Effluent Report for the Palisades Plant. This report is submitted to fulfill the requirements of the Interim Special Technical Specifications (dated October 16, 1972) of our Provisional Operating License DPR-20.

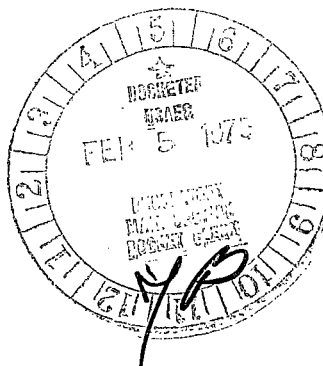
Also attached is the corrected November 1974 Effluent Report. The correction is noted by a bar and was a typographical error showing a plus (+) value instead of a minus (-) value.

Yours very truly,

Ralph B. Sewell
Nuclear Licensing Administrator

WGF/mel

CC: JGKeppler, USNRC



1333

PRIMARY COOLANT RADIOACTIVITY
Month of December 1974

<u>Gross Crud</u> <u>CPM/ml</u>	<u>Gross Filtrate</u> <u>CPM/ml</u>	<u>Gross Gas</u> <u>μCi/ml</u>	<u>Gross Iodine</u> <u>μCi/ml</u>	<u>I-131</u> <u>μCi/ml</u>	<u>I-133</u> <u>μCi/ml</u>	<u>Tritium</u> <u>μCi/ml</u>
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Maximum

Plant in cold shutdown condition

Average

entire reporting period.

PALISADES PLANT
Monthly Effluent Report - December 1974

<u>Isotope</u>	<u>Modified Liquid Radioactive Waste System (mCi)</u>	<u>Laundry System Drains (mCi)</u>	<u>Isotope</u>	<u>Gaseous Waste and Stack Effluent (mCi)</u>
^{133}Xe	0	0.06	^{133}Xe	6.82
^{57}Co	0	0.09	$^{131}\text{Xe(m)}$	1.59
^{58}Co	0.79	7.20	$^{133}\text{Xe(m)}$	0
^{60}Co	0.72	5.10	^{135}Xe	0
^{51}Cr	0	1.19	^{85}Kr	0
^{54}Mn	1.07	4.12	$^{85}\text{Kr(m)}$	0
^{134}Cs	1.17	2.20	^{87}Kr	0
^{137}Cs	0	6.09	^{131}I	0.11
^{59}Fe	0	0.19	^{132}I	0
^{124}Sb	0	0	^{133}I	0
^{95}Zr	0	0	^{135}I	0
^{63}Ni	23.4	6.63	^{57}Co	0
^{95}Nb	0	0	^{58}Co	1.96E-04
^{65}Zn	0	0.03	^{60}Co	8.76E-06
^{140}La	0	0	^{134}Cs	0
^{131}I	3.15	0.20	^{136}Cs	0
			^{137}Cs	0
			^{138}Cs	0
Net Unidentified			^{95}Zr	0
Beta as ^{90}Sr	3.72	0.29	^{95}Nb	0
Total Fission & Activation Products (Less ^3H & Dissolved Noble Gases)	34.0		^{54}Mn	1.70E-03
^3H	828	23.2	Net Unidentified	
Batches Released	62 (Note 3)	4	Beta as ^{90}Sr	1.02E-02
Total Volume Released	7.41E+06 Liters	3.94E+04 Liters	^3H	Not Analyzed
			Total Fission & Activation Products	0.13
			Batches Released	5
			Total Volume Released	9.74E+07 (M^3)

Note 3: Only 9 batch cards filled out; however, some batches extended for periods up to 31 days with each day considered a separate release.

PALISADES PLANT
Monthly Effluent Report - November 1974

Isotope	Modified Liquid Radioactive Waste System (mCi)	*Laundry System Drains (mCi)	Isotope	Gaseous Waste and Stack Effluent (mCi)
			¹³³ Xe	1.481
⁵⁷ Co	0	0	¹³¹ Xe(m)	0
⁵⁸ Co	0.177	0	¹³³ Xe(m)	0
⁶⁰ Co	1.646	0	¹³⁵ Xe	0
⁵¹ Cr	1.469	0	⁸⁵ Kr	0
⁵⁴ Mn	0.634	0	⁸⁵ Kr(m)	1.11E-01
¹³⁴ Cs	0	0	⁸⁷ Kr	Not Detected
¹³⁷ Cs	0.223	0	⁸⁸ Kr	-
⁵⁹ Fe	0.022	0	¹³¹ I	2.036
¹²⁴ Sb	0	0	¹³³ I	8.09E-02
⁹⁵ Zr	0	0	¹³⁵ I	0
⁶³ Ni	3.630	0	⁵⁷ Co	0
⁹⁵ Nb	0	0	⁵⁸ Co	2.89E-03
⁶⁵ Zn	0	0	⁶⁰ Co	1.75E-03
¹⁴⁰ La	0	0	¹³⁴ Cs	9.32E-04
¹³¹ I	1.056	0	¹³⁶ Cs	0
			¹³⁷ Cs	5.29E-03
Net Unidentified Beta as ⁸⁹ Sr	0		¹³⁸ Cs	0
Net Unidentified Beta as ⁹⁰ Sr	12.188	0	⁹⁵ Zr	0
Total Fission & Activation Products (Less ³ H & Dissolved Noble Gases)	21.045		⁹⁵ Nb	0
			⁵⁴ Mn	1.92E-03
³ H	897.245	0	Net Unidentified Beta as ⁹⁰ Sr	1.95E-02
Batches Released	103 (Note #3)	0	³ H	Not Analyzed
			Total Fission & Activation Products	2.149
Total Volume Released	7.41E+06 Liters	0 Liters	Batches Released	1
			Total Volume Released	1.06E+08 M ³

*No Laundry Waste Discharged.

Note #3 - Only 10 batch cards filled out. However, some batches extended for periods up to 30 days. Each day was considered a separate release; therefore, a sample was taken and analyzed each day.

Revised 2-3-75 WRS