

Consumers Power Company

Palisades Plant - Docket 50-255

1982 RADIOLOGICAL ENVIRONMENTAL MONITORING REPORT
(ADDITIONAL INFORMATION)

Tables RSD-E-03A and RSD-E-03D

2 Pages

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TABLE RSD-E-03A

Environmental Radiological Monitoring Program Summary
Palisades Nuclear Plant, Docket DPR-20
 Van Buren County, Michigan, January 1, 1982 to December 31, 1982

Medium or Pathway Sampled Unit of Measurement	Analysis and Total Number of Analyses Performed		Lower Limit of Detection(a)	All Indicator Locations Mean(b) Range(b)	Location with Highest Annual Mean		All Control Locations Mean(b) Range(b)	Nonroutine Reported Measurements(c)
					Name Distance & Direction	Mean(b) Range(b)		
Air (10^{-2} pCi/m ³)	Gross Beta	622	1.0	(454/463) 3.3 (<1-25)	KZ 35 mi SE	3.8 (1-7)	(156/159) 3.7 (<1-10)	None
	I-131	622	2.0	LLD all	N/A			None
Lake Water (pCi/l)	Gross Alpha	24	1.0	(1/24) 1.2 (<1-5)	Discharge	1.3 (<1-5)	None	None
	Gross Beta	36	1.0	(24/24) 3.8 (1-7)	Discharge	4.2 (2-7)	(11/12) 3.6(<1-8)	None
	Tritium	36	100.0	(17/24) 1202 (<100-5900)	Discharge	2200 (<100-5900)	(7/12) 158 (<100-290)	None None
Drinking Water (pCi/l)	Gross Beta		1.0	Control lake water and well water are drinking water supplies.				
	Tritium		100.0					
Well Water (pCi/l)	Gross Beta	36	1.0	(9/12) 3.5 (<1-9)	State Park (1 mi N)	5.3 (<1-16)	(18/24) 4.0 (<1-16)	None

- a. Nominal Lower Limit of Detection (LLD) as defined in HASL-300 (Rev 8/73), pages D-08-01, 02, and 03.
- b. Mean and range include nondetectable measurements only. Fraction of detectable measurements at specified locations is indicated in parenthesis.
- c. Nonroutine reported measurements are defined in the Palisades Technical Specifications, Section 6.9.3.2.

TABLE RSD-E-03D

HIGH, LOW AND AVERAGE CONCENTRATIONS FOR HIGHEST AVERAGE SAMPLING LOCATIONPALISADES NUCLEAR PLANT

JANUARY 1, 1982 to December 31, 1982

<u>Medium</u>	<u>Type of Analysis(1)</u>	<u>Location</u>	<u>High</u>	<u>Low</u>	<u>Average</u>
Air	Gross Beta	KZ Kalamazoo 35 mi E	$7.0 \cdot 10^{-2} \text{ pCi/m}^3$	$1 \cdot 10^{-2} \text{ pCi/m}^3$	$3.80 \cdot 10^{-2} \text{ pCi/m}^3$
	I-131	LLD	-	-	-
Lake Water	Gross Beta	Discharge	7 pCi/l	2 pCi/l	4.2 pCi/l
	Gross Alpha	Discharge	5 pCi/l	1 pCi/l	1.3 pCi/l
	Tritium	Discharge	5900 pCi/l	100 pCi/l	2200 pCi/c
Drinking Water	Gross Beta	See note on Table RSD-E-03A			
	Tritium	See note on Table RSD-E-03A			
Well Water	Gross Beta	State Park (1 mi n)	16 pCi/l	1 pCi/l	5.3 pCi/l

(1) Minimum detectable level (MDL) = air, gross beta 0.01 pCi/m³, I-131 0.02 pCi/m³; water, gross beta 1.0 pCi/l, gross alpha 1.0 pCi/l, H-3 100 pCi/l; milk, I-131 0.5 pCi/l, Sr-89 5.0 pCi/l, gamma isotopic 1.0 pCi/l; crops and sediment, gross beta 1.0 pCi/g, Sr-89 0.025 pCi/g, Sr-90 0.005 pCi/g, gamma isotopic 0.05 pCi/g; some samples may have higher MDLs due to sample size.

(2) Samples collected monthly in season.

(3) Two samples per location.

(4) Includes transit dose which averages approximately 6.4 mR/round trip.