

# YANKEE ATOMIC ELECTRIC COMPANY



20 Turnpike Road Westborough, Massachusetts 01581

February 19, 1975



Mr. Lawrence Cohen  
United States Nuclear Regulatory Commission  
Office of Nuclear Reactor Regulation  
Division of Technical Review  
Washington, D. C. 20555

Reference: License No. DPR-3 (Docket No. 50-29)

Dear Mr. Cohen:

As per your request of February 5, 1975, data is summarized below on environmental levels of tritium in surface water samples collected at or near fish sampling points as part of the environmental radiological monitoring program at Yankee Atomic Electric Company, Rowe, Massachusetts. Data (on tritium in fish) collected on 12/19/74, 5/74, 8/26/74, and 11/08/74 from the following three points was supplied to you earlier:

### Fish Sampling Points

- Sherman Pond - Approximately 0.1 miles north of discharge
- Deerfield River - 22.5 miles downriver of discharge
- Harriman Reservoir - 6.2 miles upriver of discharge

Data on surface water tritium values are shown below for the following points:

### Surface Water Sampling Points

- Sherman Pond - Approximately 0.05 miles north of discharge
- Bear Swamp - 3.9 miles downriver (water is not sampled from the Deerfield River at the point where fish samples are collected - this is the only downriver surface water sample taken).
- Harriman Reservoir - 6.2 miles upriver of discharge.

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H-3 In Surface Water (pCi/l)

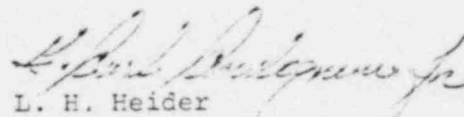
<u>Date Collected</u>	<u>Sherman Pond</u>	<u>Bear Swamp</u>	<u>Harriman Reservoir</u>
1/7/74	270 + 70	170 + 50	240 + 50
2/5/74	240 + 50	860 + 60	210 + 50
3/4/74	330 + 40	770 + 40	260 + 40
4/1/74	1090 + 50	620 + 40	<70
4/3/74	350 + 40	860 + 40	120 + 30
6/3/74	140 + 40	650 + 50	210 + 40
7/1/74	300 + 40	520 + 40	140 + 40
8/5/74	580 + 40	500 + 40	400 + 40
8/26/74	350 + 40	190 + 40	200 + 40
10/7/74	430 + 70	500 + 80	240 + 70
11/4/74	390 + 70	370 + 70	200 + 60
12/9/74	540 + 80	460 + 80	330 + 80

Water samples collected during 1970 were analyzed using a less sensitive liquid scintillation procedure and no surface water tritium activity was detected at the three stations above 2,000 pCi/l.

We trust you will find this data satisfactory; however, should you desire additional data feel free to contact us.

Very truly yours,

YANKEE ATOMIC ELECTRIC COMPANY

  
L. H. Heider  
Manager of Operations

SAF/kg

NRC DISTRIBUTION PART 50 DOCKET MATERIAL  
(TEMPORARY FORM)

CONTROL NO: 2086  
FILE: Enviro

FROM: Yankee Atomic Power Co. Westborough, Mass L.H. Heider		DATE OF DOC 2-19-75	DATE REC'D 2-24-75	LTR xxx	TWX	RPT	OTHER
TO: Mr. Lawrence Cohen		ORIG 3-signed	CC	OTHER	SENT AEC PDR <u>xxxx</u> SENT LOCAL PDR <u>xxx</u>		
CLASS	UNCLASS xxxx	PROP INFO	INPUT	NO CYS REC'D 3	DOCKET NO: 50-29		

DESCRIPTION: Ltr ref our 2-5-75 ltr, data is summarized on environmental levels of tritium in surface waters samples collected at or near fish sampling points .....

ENCLOSURES:

PLANT NAME: Yankee

FOR ACTION/INFORMATION 2-24-75 JGB

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GT

*to Lic Asst  
S. Reed*

**POOR ORIGINAL**