

AUG 26 1977

DISTRIBUTION
Docket
NRC PDR
LOCAL PDR
ORB#1 Reading
ASchwencer
SMSheppard
ABurger
KParrish
OELD
OI&E(3)
ACRS(16)
DEisenhut
TBAbarnathy
JRBuchanan

Docket No. 50-29

Licensee

RE: YANKEE-ROWE ATOMIC POWER STATION

Gentlemen:

The NRC is presently preparing a summary of radioactive effluents released from commercial nuclear power plants during 1976. The report will be similar to NUREG-0218, "Radioactive Materials Released from Nuclear Power Plants (1975)".

In order to verify the accuracy of the information before its publication, a draft copy of the data with respect to your plant(s) is enclosed for your review. We would appreciate receiving your comments and suggested changes by September 16, 1977. If there are changes to the enclosure that result from other than our transcription error, we request that you file an amendment to your semi-annual reports which includes a reason for the change. Also, please provide answers to any questions attached to or on the enclosed data sheets, the name and telephone number of the individual we should contact in the event that we find it necessary to clarify your comments in answer to this request. Please provide a written response even if no changes to the data are required. Responses should be addressed to:

U. S. Nuclear Regulatory Commission
Office of Management Information & Program Control
Operating Data Branch, 12105 MNBB
Washington, D. C. 20555

Any questions should be referred to T. R. Decker (301-492-7735). A copy of the final report will be sent to you.

Sincerely,

THIS DOCUMENT CONTAINS
POOR QUALITY PAGES

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Albert Schwencer, Chief
Operating Reactors Branch #1
Division of Operating Reactors

Enclosure:
Draft Copy of Data

OFFICE	DOR:ORB#1	DOR:ORB#3	DOR:ORB#1			
SURNAME	ABurger:lb	KParrish cp	ASchwencer			
DATE	8/26/77	8/26/77	8/26/77			

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Yankee Atomic Electric Comp

August 26, 1977

cc: Mr. Donald G. Allen, President
Yankee Atomic Electric Company
20 Turnpike Road
Westboro, Massachusetts 01581

Greenfield Public Library
402 Main Street
Greenfield, Massachusetts 01581

FACILITY: YANKEE ROWE
TYPE: PWR
LOCATION: 20 MI NW GREENFIELD MA
COOLING WATER SOURCE: DEERFIELD RIVER

DUCKET NO: 50-29
LICENSED POWER (MWT): 600.0 0.0 0.0
INITIAL CRITICALITY: 08/19/60

OPERATION

GROSS THERMAL GENERATION	812809.0	MWHT
NET ELECTRICAL	241916.0	MWHE
THERMAL CAPACITY FACTOR (DURING COMMERCIAL OPERATION)	15.4	PER CENT

SUMMARY OF EFFLUENTS

AIRBORNE

A) TOTAL NOBLE GASES	2.57E+01	CURIES
B) TOTAL I-131	2.55E-05	CURIES
C) TOTAL HALOGENS (INCLUDING I-131)	1.33E-04	CURIES
D) TOTAL PARTICULATES	<1.84E-05	CURIES
E) TOTAL TRITIUM	2.02E+00	CURIES

LIQUID

A) TOTAL MIXED FISSION AND ACTIVATION PRODUCTS	<9.47E-03	CURIES
B) TOTAL TRITIUM	1.56E+02	CURIES
C) DISSOLVED NOBLE GASES	2.77E-02	CURIES
D) VOLUME OF LIQUID WASTE RELEASED	1.86E+07	LITERS
E) VOLUME OF DILUTION WATER	2.50E+11	LITERS

SOLID WASTE

A) VOLUME	3.60E+02	CUBIC METERS ?
B) ACTIVITY	2.65E+01	CURIES
C) NUMBER OF SHIPMENTS	2.50E+01	

* IF SUMMARY
VALUES ARE
DIFFERENT THAN
THE SUM OF
ISOTOPES PLEASE
EXPLAIN DISCREPANCY.

AIRDORNE EFFLUENTS (CURIES)

NOBLE GAS

AR-37	4.34E-01
AR-41	2.96E-01
KR-85	7.49E-02
KR-85M	2.58E-01
KR-87	1.60E-01
KR-88	3.95E-01
XE-131M	3.47E-02
XE-133	1.91E+01
XE-133M	3.79E-01
XE-135	3.39E+00
XE-	1.21E+00
XE-	2.59E-02

HALOGENS

I-131	2.55E-05
I-133	4.89E-05
I-135	5.91E-05

PARTICULATES

C-14	1.29E-01
CR-51	<3.80E-06
MN-54	<6.74E-07
FE-59	1.87E-06
CO-58	1.82E-06
CO-60	9.44E-06
SE-75	<3.83E-07
RB-88	1.26E+00
SR-89	<3.14E-07
SR-90	<6.81E-08
NB/ZR-95	<6.14E-07
CS-134	<5.38E-07
CS-137	<5.12E-07
AG-110M	<7.12E-07
SB-124	<4.69E-07
BA/LA-140	<1.02E-06
C-14	0.0

TRITIUM

H-3	2.02E+00
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PLEASE EXPLAIN USE OF UNUSUALLY LARGE
NUMBER OF LESS THAN VALUE

← ?

LIQUID EFFLUENTS (CURIES)

XE-133	2.74E-02
XE-135	2.91E-04
I-131	1.24E-03
I-133	3.85E-04
C-14	6.14E-03
CR-51	<4.61E-05
MN-54	1.41E-04
CO-58	2.58E-05
FE-59	<1.76E-05
CO-60	2.38E-04
ZN-65	<2.26E-05
SE-75	<6.64E-06
SR-89	1.00E-04
SR-90	5.59E-06
ZR/NB-95	<2.83E-05
MO-99	<9.89E-05
TC-99M	<1.01E-05
AG-110M	3.99E-06
SB-124	<8.65E-06
CS-134	1.97E-04
CS-136	1.68E-04
CS-137	4.38E-04
BA/LA-140	<2.55E-05
CE-141	7.97E-06
CE-144	<5.02E-05
UNIDENTIFIED	6.33E-05

TRITIUM

H-3	1.56E+02
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