

Enclosure

Revised Pages  
Plant Hatch Annual Radioactive Effluent Release Report  
1994

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TABLE 1-2BB  
 E. I. HATCH NUCLEAR PLANT  
 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT - 1994  
 Liquid Effluents - Summation of All Releases  
 Unit: 2  
 Starting : 1-Jul-1994      Ending : 31-Dec-1994

TYPE OF EFFLUENT	UNITS	QUARTER 3	QUARTER 4	EST. TOT ERROR %
-----				
A. FISSION & ACTIVATION PRODUCTS				
-----				
1. TOTAL RELEASE (NOT INCLUDING TRITIUM, GASES, ALPHA)	CURIES	9.14E-03	3.36E-03	4.70E+01
-----				
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	uCi/ML	1.26E-08	6.92E-09	
-----				
3. PERCENT OF APPLICABLE LIMIT	%	*	*	
-----				
B. TRITIUM				
-----				
1. TOTAL RELEASE	CURIES	2.87E+00	1.70E+00	3.70E+01
-----				
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	uCi/ML	3.97E-06	3.50E-06	
-----				
3. PERCENT OF APPLICABLE LIMIT	%	*	*	
-----				
C. DISSOLVED AND ENTRAINED GASES				
-----				
1. TOTAL RELEASE	CURIES	2.10E-03	1.68E-03	1.00E+02
-----				
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	uCi/ML	2.91E-09	3.46E-09	
-----				
3. PERCENT OF APPLICABLE LIMIT	%	*	*	
-----				
D. GROSS ALPHA RADIOACTIVITY				
-----				
1. TOTAL RELEASE	CURIES	0.00E+00	0.00E+00	1.20E+02
-----				
E. WASTE VOL RELEASED (PRE-DILUTION)	LITERS	2.89E+06	1.88E+06	1.00E+01
-----				
F. VOLUME OF DILUTION WATER USED	LITERS	7.22E+08	4.85E+08	1.60E+02
-----				

\* Applicable limits are expressed in terms of dose. See Tables 1-4A and 1-4B of this report.

TABLE 1-2CC  
 E. I. HATCH NUCLEAR PLANT  
 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT - 1994  
 Liquid Effluents - Summation of All Releases  
 Unit: Site  
 Starting : 1-Jul-1994      Ending : 31-Dec-1994

TYPE OF EFFLUENT	UNITS	QUARTER 3	QUARTER 4	EST. TOT ERROR %
-----				
A. FISSION & ACTIVATION PRODUCTS				
-----				
1. TOTAL RELEASE (NOT INCLUDING TRITIUM, GASES, ALPHA)	CURIES	1.52E-01	3.91E-01	4.70E+01
-----				
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	uCi/ML	5.94E-08	2.11E-07	
-----				
3. PERCENT OF APPLICABLE LIMIT	%	*	*	
-----				
B. TRITIUM				
-----				
1. TOTAL RELEASE	CURIES	9.96E+00	1.10E+01	3.70E+01
-----				
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	uCi/ML	3.90E-06	5.95E-06	
-----				
3. PERCENT OF APPLICABLE LIMIT	%	*	*	
-----				
C. DISSOLVED AND ENTRAINED GASES				
-----				
1. TOTAL RELEASE	CURIES	3.58E-03	2.42E-03	1.00E+02
-----				
2. AVERAGE DILUTED CONCENTRATION DURING PERIOD	uCi/ML	1.40E-09	1.31E-09	
-----				
3. PERCENT OF APPLICABLE LIMIT	%	*	*	
-----				
D. GROSS ALPHA RADIOACTIVITY				
-----				
1. TOTAL RELEASE	CURIES	0.00E+00	0.00E+00	1.20E+02
-----				
E. WASTE VOL RELEASED (PRE-DILUTION)	LITERS	9.62E+06	7.40E+06	1.00E+01
-----				
F. VOLUME OF DILUTION WATER USED	LITERS	2.55E+09	1.85E+09	1.60E+02
-----				

\* Applicable limits are expressed in terms of dose. See Tables 1-4A and 1-4B of this report.

TABLE 1-3BB\*  
 E. I. HATCH NUCLEAR PLANT  
 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT - 1994  
 Liquid Effluents  
 Unit: 2  
 Starting : 1-Jul-1994      Ending : 31-Dec-1994

NUCLIDE	UNIT	CONTINUOUS MODE**		BATCH MODE	
		QUARTER 3	QUARTER 4	QUARTER 3	QUARTER 4
H-3	CURIES	0.00E+00	0.00E+00	2.87E+00	1.70E+00

FISSION & ACTIVATION PRODUCTS

AS-76	CURIES	0.00E+00	0.00E+00	3.66E-04	0.00E+00
BA-139	CURIES	0.00E+00	0.00E+00	0.00E+00	4.55E-06
BA-140	CURIES	0.00E+00	0.00E+00	3.77E-04	3.47E-06
CE-141	CURIES	0.00E+00	0.00E+00	1.90E-06	0.00E+00
CO-58	CURIES	0.00E+00	0.00E+00	2.39E-05	1.52E-05
CO-60	CURIES	0.00E+00	0.00E+00	1.15E-03	7.76E-04
CR-51	CURIES	0.00E+00	0.00E+00	0.00E+00	1.73E-05
CS-134	CURIES	0.00E+00	0.00E+00	1.36E-05	3.90E-05
CS-137	CURIES	0.00E+00	0.00E+00	4.10E-04	2.71E-04
FE-55	CURIES	0.00E+00	0.00E+00	2.08E-03	1.09E-04
FE-59	CURIES	0.00E+00	0.00E+00	0.00E+00	2.61E-06
I-131	CURIES	0.00E+00	0.00E+00	1.51E-04	5.31E-05
I-133	CURIES	0.00E+00	0.00E+00	3.94E-04	1.55E-04
LA-140	CURIES	0.00E+00	0.00E+00	1.12E-04	0.00E+00
MN-54	CURIES	0.00E+00	0.00E+00	9.49E-05	1.52E-04
MO-99	CURIES	0.00E+00	0.00E+00	7.12E-05	0.00E+00
NA-24	CURIES	0.00E+00	0.00E+00	2.17E-04	0.00E+00
NB-95	CURIES	0.00E+00	0.00E+00	6.14E-07	0.00E+00
NB-97	CURIES	0.00E+00	0.00E+00	8.67E-05	0.00E+00
NP-239	CURIES	0.00E+00	0.00E+00	1.87E-05	0.00E+00
OTHER	CURIES	0.00E+00	0.00E+00	8.63E-04	4.26E-04
SR-89	CURIES	0.00E+00	0.00E+00	2.77E-04	7.51E-05
SR-90	CURIES	0.00E+00	0.00E+00	1.41E-05	1.07E-12
SR-91	CURIES	0.00E+00	0.00E+00	8.51E-06	0.00E+00
TC-99M	CURIES	0.00E+00	0.00E+00	1.18E-04	3.46E-06
Y-91M	CURIES	0.00E+00	0.00E+00	1.37E-05	2.32E-05
Y-92	CURIES	0.00E+00	0.00E+00	3.72E-04	0.00E+00
ZN-65	CURIES	0.00E+00	0.00E+00	1.90E-03	1.23E-03
ZN-69M	CURIES	0.00E+00	0.00E+00	8.96E-06	0.00E+00
TOTALS	CURIES	0.00E+00	0.00E+00	9.14E-03	3.36E-03

DISSOLVED AND ENTRAINED GASES

TABLE 1-3CC\*  
 E. I. HATCH NUCLEAR PLANT  
 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT - 1994  
 Liquid Effluents  
 Unit: Site  
 Starting : 1-Jul-1994      Ending : 31-Dec-1994

NUCLIDE	UNIT	CONTINUOUS MODE**		BATCH MODE	
		QUARTER 3	QUARTER 4	QUARTER 3	QUARTER 4
H-3	CURIES	0.00E+00	0.00E+00	9.96E+00	1.10E+01

FISSION & ACTIVATION PRODUCTS

AS-76	CURIES	0.00E+00	0.00E+00	1.99E-03	3.73E-04
BA-139	CURIES	0.00E+00	0.00E+00	4.47E-06	4.55E-06
BA-140	CURIES	0.00E+00	0.00E+00	1.58E-03	3.47E-06
CE-141	CURIES	0.00E+00	0.00E+00	6.68E-06	0.00E+00
CE-144	CURIES	0.00E+00	0.00E+00	7.23E-06	2.26E-04
CO-57	CURIES	0.00E+00	0.00E+00	0.00E+00	1.10E-05
CO-58	CURIES	0.00E+00	0.00E+00	4.67E-04	1.11E-02
CO-60	CURIES	0.00E+00	0.00E+00	8.59E-03	7.48E-02
CR-51	CURIES	0.00E+00	0.00E+00	9.08E-04	5.61E-02
CS-134	CURIES	0.00E+00	0.00E+00	4.86E-04	2.18E-04
CS-137	CURIES	0.00E+00	0.00E+00	7.58E-03	5.37E-03
FE-55	CURIES	0.00E+00	0.00E+00	3.25E-03	1.27E-02
FE-59	CURIES	0.00E+00	0.00E+00	8.12E-05	1.47E-02
I-131	CURIES	0.00E+00	0.00E+00	3.67E-04	5.70E-05
I-132	CURIES	0.00E+00	0.00E+00	1.09E-04	0.00E+00
I-133	CURIES	0.00E+00	0.00E+00	1.55E-03	1.55E-04
I-135	CURIES	0.00E+00	0.00E+00	2.86E-04	0.00E+00
LA-140	CURIES	0.00E+00	0.00E+00	3.08E-04	0.00E+00
MN-54	CURIES	0.00E+00	0.00E+00	1.34E-03	3.06E-02
MN-56	CURIES	0.00E+00	0.00E+00	3.00E-05	0.00E+00
MO-99	CURIES	0.00E+00	0.00E+00	2.76E-04	0.00E+00
NA-24	CURIES	0.00E+00	0.00E+00	6.38E-03	3.58E-05
NB-95	CURIES	0.00E+00	0.00E+00	3.46E-06	6.83E-04
NB-97	CURIES	0.00E+00	0.00E+00	4.20E-04	2.98E-04
NP-239	CURIES	0.00E+00	0.00E+00	1.87E-05	0.00E+00
OTHER	CURIES	0.00E+00	0.00E+00	9.96E-02	8.90E-03
SB-124	CURIES	0.00E+00	0.00E+00	2.40E-06	6.64E-04
SN-113	CURIES	0.00E+00	0.00E+00	0.00E+00	7.51E-06
SR-89	CURIES	0.00E+00	0.00E+00	1.50E-03	3.00E-04
SR-90	CURIES	0.00E+00	0.00E+00	5.76E-05	1.21E-07
SR-91	CURIES	0.00E+00	0.00E+00	8.51E-06	0.00E+00
SR-92	CURIES	0.00E+00	0.00E+00	2.22E-06	2.99E-05
TC-99M	CURIES	0.00E+00	0.00E+00	7.74E-04	1.64E-05

TABLE 1-4BB  
 E. I. HATCH NUCLEAR PLANT  
 ANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT - 1994  
 DOSES TO A MEMBER OF THE PUBLIC DUE TO LIQUID RELEASES  
 Unit: 2

Starting: 01-Jul-1994

Ending: 31-Dec-1994

Cumulative Doses per Quarter

Organ	ODCM Limit	Units	Quarter 3	% of ODCM Limit	Quarter 4	% of ODCM Limit
Bone	5.0	mrem	1.91E-03	3.83E-02	1.24E-03	2.47E-02
Liver	5.0	mrem	3.04E-03	6.07E-02	2.08E-03	4.16E-02
TBody	1.5	mrem	1.93E-03	1.29E-01	1.35E-03	8.99E-02
Thyroid	5.0	mrem	1.19E-03	2.39E-02	4.52E-04	9.04E-03
Kidney	5.0	mrem	1.28E-03	2.55E-02	8.53E-04	1.71E-02
Lung	5.0	mrem	2.79E-04	5.58E-03	1.92E-04	3.84E-03
GILLI	5.0	mrem	1.21E-03	2.42E-02	7.69E-04	1.54E-02

Cumulative Doses per Year

Organ	ODCM Limit	Units	Year to Ending Date	% of ODCM Limit
Bone	10.0	mrem	3.61E-02	3.61E-01
Liver	10.0	mrem	6.91E-02	6.91E-01
TBody	3.0	mrem	4.24E-02	1.41E+00
Thyroid	10.0	mrem	3.73E-02	3.73E-01
Kidney	10.0	mrem	3.27E-02	3.27E-01
Lung	10.0	mrem	4.55E-03	4.55E-02
GILLI	10.0	mrem	4.09E-02	4.09E-01