

TABLE 2-2a

E. I. Hatch Nuclear Power Plant UNIT 1  
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1984

## GASEOUS EFFLUENTS-ELEVATED RELEASE

Nuclides Released	Unit	CONTINUOUS MODE		BATCH MODE	
		Quarter 1	Quarter 2	Quarter 1	Quarter 2
1. Fission gases					
Xe-133	Ci	2.58E+03	5.82E+02	0.00E+00	0.00E+00
Xe-131m	Ci	8.80E+00	4.97E+00	0.00E+00	0.00E+00
Kr-88	Ci	1.45E+02	4.73E+02	0.00E+00	0.00E+00
Xe-133M	Ci	1.33E+02	1.06E+01	0.00E+00	0.00E+00
Xe-135	Ci	4.99E+02	9.88E+00	0.00E+00	0.00E+00
Kr-85M	Ci	9.24E+01	3.39E+02	0.00E+00	0.00E+00
I-131	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-87	Ci	2.48E+01	6.05E+01	0.00E+00	0.00E+00
Xe-138	Ci	3.98E+00	1.30E+01	0.00E+00	0.00E+00
Xe-137	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
N-13	Ci	1.20E+01	4.18E+01	0.00E+00	0.00E+00
Kr-85	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-135M	Ci	5.62E+00	6.62E+00	0.00E+00	0.00E+00
I-133	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-89	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-135	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ar-41	Ci	3.62E+00	8.21E+00	0.00E+00	0.00E+00
Total for period	Ci	3.50E+03	1.55E+03	0.00E+00	0.00E+00

## 2. Iodines

I-131	Ci	6.76E-03	2.24E-03	0.00E+00	0.00E+00
I-133	Ci	4.98E-04	6.75E-04	0.00E+00	0.00E+00
I-135	Ci	2.07E-04	4.96E-04	0.00E+00	0.00E+00
Total for period	Ci	7.47E-03	3.41E-03	0.00E+00	0.00E+00

## 3. Particulates

Sr-89	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-90	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-141	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cr-51	Ci	0.00E+00	1.48E-06	0.00E+00	0.00E+00
I-131	Ci	1.15E-05	7.06E-06	0.00E+00	0.00E+00
Sn-113	Ci	0.00E+00	3.63E-08	0.00E+00	0.00E+00
Ba-140	Ci	2.01E-05	6.80E-05	0.00E+00	0.00E+00
Cs-134	Ci	7.15E-07	6.45E-07	0.00E+00	0.00E+00
Cs-137	Ci	2.63E-06	2.30E-06	0.00E+00	0.00E+00
Ce-144	Ci	0.00E+00	9.24E-06	0.00E+00	0.00E+00
Zr-95	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	Ci	0.00E+00	2.04E-07	0.00E+00	0.00E+00
Co-58	Ci	0.00E+00	4.09E-08	0.00E+00	0.00E+00
Mn-54	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-59	Ci	0.00E+00	2.08E-07	0.00E+00	0.00E+00
Co-60	Ci	1.62E-06	1.63E-06	0.00E+00	0.00E+00
La-140	Ci	2.89E-05	1.56E-04	0.00E+00	0.00E+00
Total for period	Ci	6.55E-05	2.47E-04	0.00E+00	0.00E+00

TABLE 2-2b

E. I. Hatch Nuclear Power Plant UNIT 2  
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1984  
GASEOUS EFFLUENTS-ELEVATED RELEASE

Nuclides Released	Unit	CONTINUOUS MODE		BATCH MODE	
		Quarter 1	Quarter 2	Quarter 1	Quarter 2
1. Fission gases					
Xe-133	Ci	7.94E+02	0.00E+00	0.00E+00	0.00E+00
Xe-131m	Ci	2.71E+00	0.00E+00	0.00E+00	0.00E+00
Kr-88	Ci	4.48E+01	0.00E+00	0.00E+00	0.00E+00
Xe-133M	Ci	4.10E+01	0.00E+00	0.00E+00	0.00E+00
Xe-135	Ci	1.54E+02	0.00E+00	0.00E+00	0.00E+00
Kr-85M	Ci	2.85E+01	0.00E+00	0.00E+00	0.00E+00
I-131	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-87	Ci	7.66E+00	0.00E+00	0.00E+00	0.00E+00
Xe-138	Ci	1.23E+00	0.00E+00	0.00E+00	0.00E+00
Xe-137	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
N-13	Ci	3.70E+00	0.00E+00	0.00E+00	0.00E+00
Kr-85	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-135M	Ci	1.73E+00	0.00E+00	0.00E+00	0.00E+00
I-133	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-89	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-135	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ar-41	Ci	1.12E+00	0.00E+00	0.00E+00	0.00E+00
Total for period	Ci	1.08E+03	0.00E+00	0.00E+00	0.00E+00

## 2. Iodines

I-131	Ci	2.09E-03	0.00E+00	0.00E+00	0.00E+00
I-133	Ci	1.54E-04	0.00E+00	0.00E+00	0.00E+00
I-135	Ci	6.38E-05	0.00E+00	0.00E+00	0.00E+00
Total for period	Ci	2.30E-03	0.00E+00	0.00E+00	0.00E+00

## 3. Particulates

Sr-89	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-90	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-141	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cr-51	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-131	Ci	3.56E-06	0.00E+00	0.00E+00	0.00E+00
Sr-113	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ba-140	Ci	6.21E-06	0.00E+00	0.00E+00	0.00E+00
Cs-134	Ci	3.21E-07	0.00E+00	0.00E+00	0.00E+00
Cs-137	Ci	8.25E-07	0.00E+00	0.00E+00	0.00E+00
Ce-144	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Zr-95	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-58	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Mn-54	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-59	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Co-60	Ci	5.00E-07	0.00E+00	0.00E+00	0.00E+00
La-140	Ci	8.90E-06	0.00E+00	0.00E+00	0.00E+00
Total for period	Ci	2.02E-05	0.00E+00	0.00E+00	0.00E+00

TABLE 2-2c

E. I& Hatch Nuclear Power Plant SITE  
 EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1994  
 GASEOUS EFFLUENTS-ELEVATED RELEASE

Nuclides Released	Unit	CONTINUOUS MODE		BATCH MODE	
		Quarter 1	Quarter 2	Quarter 1	Quarter 2
1. Fission gases					
Xe-133	Ci	3.37E+03	5.82E+02	0.00E+00	0.00E+00
Xe-131m	Ci	1.15E+01	4.97E+00	0.00E+00	0.00E+00
Kr-88	Ci	1.90E+02	4.73E+02	0.00E+00	0.00E+00
Xe-133M	Ci	1.74E+02	1.06E+01	0.00E+00	0.00E+00
Xe-135	Ci	6.53E+02	9.88E+00	0.00E+00	0.00E+00
Kr-85M	Ci	1.21E+02	3.39E+02	0.00E+00	0.00E+00
I-131	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-87	Ci	3.25E+01	6.05E+01	0.00E+00	0.00E+00
Xe-138	Ci	5.21E+00	1.30E+01	0.00E+00	0.00E+00
Xe-137	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
N-13	Ci	1.57E+01	4.18E+01	0.00E+00	0.00E+00
Kr-85	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Xe-135M	Ci	7.36E+00	6.62E+00	0.00E+00	0.00E+00
I-133	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Kr-89	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-135	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ar-41	Ci	4.74E+00	8.21E+00	0.00E+00	0.00E+00
Total for period	Ci	4.59E+03	1.55E+03	0.00E+00	0.00E+00
2. Iodines					
I-131	Ci	8.85E-03	2.24E-03	0.00E+00	0.00E+00
I-133	Ci	6.51E-04	6.75E-04	0.00E+00	0.00E+00
I-135	Ci	2.70E-04	4.96E-04	0.00E+00	0.00E+00
Total for period	Ci	9.77E-03	3.41E-03	0.00E+00	0.00E+00
3. Particulates					
Sr-89	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Sr-90	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Ce-141	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Cr-51	Ci	0.00E+00	1.48E-06	0.00E+00	0.00E+00
I-131	Ci	1.51E-05	7.06E-06	0.00E+00	0.00E+00
Sn-113	Ci	0.00E+00	3.63E-08	0.00E+00	0.00E+00
Ba-140	Ci	2.63E-05	6.80E-05	0.00E+00	0.00E+00
Cs-134	Ci	9.36E-07	6.45E-07	0.00E+00	0.00E+00
Cs-137	Ci	3.50E-06	2.30E-06	0.00E+00	0.00E+00
Ce-144	Ci	0.00E+00	9.24E-06	0.00E+00	0.00E+00
Zr-95	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Nb-95	Ci	0.00E+00	2.04E-07	0.00E+00	0.00E+00
Co-58	Ci	0.00E+00	4.09E-08	0.00E+00	0.00E+00
Mn-54	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Fe-59	Ci	0.00E+00	2.08E-07	0.00E+00	0.00E+00
Co-60	Ci	2.12E-06	1.63E-06	0.00E+00	0.00E+00
La-140	Ci	3.78E-05	1.56E-04	0.00E+00	0.00E+00
Total for period	Ci	8.57E-05	2.47E-04	0.00E+00	0.00E+00