

QUAD CITIES NUCLEAR POWER STATION

TABLE 1A

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1980

GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

	Unit	Quarter 1st	Quarter 2nd	Est. Total Error, %
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A. Fission & Activation Gases

1. Total release	Ci	3.58E+03	5.80E+03	
2. Average release rate for period	uCi/sec	4.55E+02	7.38E+02	
3. a. Percent of Tech. Spec. limit Chimney	%	1.48E-01	1.67E-01	
b. Percent of Tech. Spec. limit Stack	%	2.45E+00	5.01E+00	

B. Iodines

1. Total Iodine-131	Ci	3.87E-02	7.67E-02	
2. Average release rate for period	uCi/sec	4.92E-03	9.76E-03	
3. a. Percent of Tech. Spec. limit station	%	3.05E-01	7.12E-01	

C. Particulates

1. Particulates with half-lives > 8 days	Ci	1.93E-02	7.88E-02	
2. Average release rate for period	uCi/sec	2.45E-03	1.00E-02	
3. Gross alpha radioactivity		4.69E-04	1.86E-03	

TABLE IA CONTINUED
 EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1980
 GASEOUS EFFLUENTS-SUMMATION OF ALL RELEASES

	Unit	Quarter 1st	Quarter 2nd	Est. Total Error, %
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0. Tritium

1. Total release	ci	8.68E+00	1.17E+01	
2. Average release rate for period	uCi/sec	1.10E+00	1.48E+00	--

QUAD CITIES NUCLEAR POWER STATION

TABLE

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1980

GASEOUS EFFLUENTS- ELEVATED RELEASE

Continuous Mode

Batch Mode

Nuclides Released	Unit	Quarter 1st	Quarter 2nd	Quarter	Quarter
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1. Fission gases

Kr-85	CI	< LLD	< LLD		
Kr-85m	CI	7.30E+02	5.85E+02		
Kr-87	CI	5.04E+01	1.87E+02		
Kr-88	CI	9.48E+02	8.39E+02		
Xe-133	CI	1.16E+03	1.31E+03		
Xe-135	CI	1.77E+02	1.10E+03		
Xe-135m	CI	1.02E+02	4.42E+02		
Xe-138	CI	2.27E+02	1.04E+03		
	CI				
	CI				
Unidentified	CI	< LLD	< LLD		
Total for Period	CI	3.40E+03	5.51E+03		

2. Iodines

I-131	CI	3.45E-02	6.47E-02		
I-133	CI	1.40E-01	3.07E-01		
I-135	CI	1.91E-01	5.40E-01		
Total for Period	CI	3.66E-01	9.12E-01		

TABLE CONTINUED
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1980

GASEOUS EFFLUENTS- ELEVATED RELEASE

Nuclides Released	Unit	Continuous Mode		Batch Mode	
		Quarter 1st	Quarter 2nd	Quarter	Quarter

3. Particulates

Sr-89	CI	6.51E-03	2.53E-02		
Sr-90	CI	1.49E-05	7.18E-05		
Cs-134	CI	1.53E-05	1.74E-05		
Cs-137	CI	1.45E-04	3.41E-04		
Ba-140	CI	8.82E-03	3.71E-02		
La-140	CI	< LLD	3.57E-02		
Cr51	CI	< LLD	< LLD		
Mn54	CI	< LLD	< LLD		
Co58	CI	< LLD	< LLD		
Co60	CI	1.79E-04	5.54E-03		
I131	CI	4.71E-03	5.49E-03		
Ag110m	CI	< LLD	< LLD		
Ce141	CI	2.37E-04	2.73E-04		
	CI				
	CI				
	CI				
	CI				
Unidentified	CI				

QUAD CITIES NUCLEAR POWER STATION

TABLE

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1980

GASEOUS EFFLUENTS- VENT RELEASE

Continuous Mode

Batch Mode

Nuclides Released	Unit	Quarter 1st	Quarter 2nd	Quarter	Quarter
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1. Fission gases

Kr-85	CI	< LLD	< LLD		
Kr-85m	CI	3.58E+00	2.29E+00		
Kr-87	CI	6.72E+00	1.05E+00		
Kr-88	CI	9.29E+00	2.35E+00		
Xe-133	CI	2.29E+01	1.14E+02		
Xe-135	CI	5.97E+01	5.79E+01		
Xe-135m	CI	2.39E+01	9.31E+01		
Xe-138	CI	2.64E-01	3.76E+01		
	CI				
	CI				
Unidentified	CI	< LLD	< LLD		
Total for Period	CI	1.26E+02	3.08E+02		

2. Iodines

I-131	CI	4.28E-03	1.21E-02		
I-133	CI	2.92E-02	7.31E-02		
I-135	CI	4.23E-02	1.49E-01		
Total for Period	CI	7.58E-02	2.34E-01		

TABLE CONTINUED
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1980

GASEOUS EFFLUENTS- VENT RELEASE

Nuclides Released	Unit	Continuous Mode		Batch Mode	
		Quarter 1st	Quarter 2nd	Quarter	Quarter

3. Particulates

Sr-89	ci	4.20E-04	7.14E-04		
Sr-90	ci	3.20E-05	5.83E-05		
Cs-134	ci	2.83E-04	2.73E-04		
Cs-137	ci	5.44E-04	8.04E-04		
Ba-140	ci	3.98E-04	2.49E-03		
La-140	ci				
Cr51	ci	1.10E-04	< LLD		
Mn54	ci	5.27E-05	2.35E-05		
Co58	ci	3.57E-05	< LLD		
Co60	ci	6.32E-03	3.88E-03		
I131	ci	7.89E-04	1.46E-03		
Ag110m	ci	< LLD	< LLD		
	ci	2.54E-05	< LLD		
	ci	5.47E-06	3.64E-05		
	ci				
	ci				
	ci				
Unidentified	ci				

QUAD CITIES NUCLEAR POWER STATION

TABLE 2A

EFFLUENT AND WASTE DISPOSAL SEMI-ANNUAL REPORT 1980

LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

	Unit	Quarter 1st	Quarter 2nd	Est. Total Error, %
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A. Fission and Activation Products

1. Total release (not including tritium, gases, alpha)	CI	2.57E+00	2.43E-01	
2. Average diluted concentration during period	uCi/ml	3.18E-08	2.04E-09	
3. Percent of applicable limit	%	3.18E+01	2.04E+00	
4. Maximum diluted concentration during period	uCi/ml	*4.97E-06	*1.94E-06	

B. Tritium

1. Total release	CI	3.21E+00	2.21E+00	
2. Average diluted concentration during period	uCi/ml	5.77E-08	1.86E-08	
3. Percent of applicable limit	%	1.92E-03	6.24E-04	

C. Dissolved and Entrained Gases

1. Total release	CI	< LLD	< LLD	
2. Average diluted concentration during period	uCi/ml	< LLD	< LLD	
3. Percent of applicable limit	%	< LLD	< LLD	

D. Gross Alpha Radioactivity

1. Total release	CI	5.59E-03	1.19E-02	
2. Average concentration released	uCi/ml	6.90E-11	1.00E-10	

E. Volume of waste released (prior to dilution)	Liters	4.47E+06	1.79E+06	
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F. Volume of dilution water used during period	Liters	8.10E+10	1.19E+11	
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*This batch was discharged on an identified nuclide basis.

QUAD CITIES NUCLEAR POWER STATION

TABLE 2B

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1980

LIQUID EFFLUENTS

	Unit	Continuous Mode		Batch Mode	
		Quarter 1st	Quarter 2nd	Quarter	Quarter
Sr-89	ci	6.61E-04	3.90E-04		
Sr-90	ci	1.06E-03	3.43E-04		
Cs-134	ci	5.34E-01	1.41E-02		
Cs-137	ci	1.09E+00	3.09E-02		
I-131	ci	< LLD	< LLD		
Co-58	ci	4.60E-03	< LLD		
Co-60	ci	3.23E-01	3.85E-02		
Fe-59	ci	< LLD	< LLD		
Zn-65	ci	3.37E-03	2.72E-03		
Mn-54	ci	1.36E-02	2.30E-03		
Cr-51	ci	< LLD	< LLD		
Zr-95	ci	< LLD	9.50E-04		
Nb-95	ci	< LLD	< LLD		
Mo-99	ci	< LLD	< LLD		
Ag110m	ci	< LLD	7.47E-04		
Ba-140	ci	2.39E-01	2.41E-02		
Cs136	ci	< LLD	< LLD		
La-140	ci	1.76E-01	1.17E-02		
	ci	1.80E-01	1.97E-03		
Unidentified	ci	1.80E-01	1.14E-01		
Total for Period (above)	ci	2.57E+00	2.43E-01		
Xe-133	ci	< LLD	< LLD		
Xe-135	ci	< LLD	< LLD		

SOLID RADIOACTIVE WASTE SUMMARY

UNITS 1/2

BSC - Barnwell South Carolina

CN - Chem Nuclear Co.

HN - Hittman Nuclear & Development Co.

QUAD-CITIES STATION - JANUARY - 1980

DATE	DISPOSITION OF MATERIAL		VOLUME (ft ³) PER SHIPMENT	VOLUME (ft ³) PER MONTH	MILLCURIES PER SHIPMENT	CURIES PER MONTH
	CO. TRANS.	BURIAL SITE				
1-2-80	HN	BSC	90		1248	
1-4-80	HN	BSC	52.5		21479	
1-4-80	HN	BSC	105		24560	
1-7-80	HN	BSC	105		27386	
1-10-80	HN	BSC	105		20000.18	
1-11-80	HN	BSC	105		35153	
1-14-80	NECO	RICHLAND, WA	1289.75		91.21	
1-15-80	HN	BSC	105		9441	
1-17-80	HN	BSC	105		32568	
1-18-80	HN	BSC	105		17325	
1-19-80	HN	BSC	105		14694	
1-21-80	NECO	RICHLAND, WA	570		246	
1-22-80	NECO	RICHLAND, WA	1289		122	
1-23-80	HN	BEATTY, NV	105		15705	
1-24-80	HN	BEATTY, NV	90		4000	
1-24-80	HN	BEATTY, NV	105		6949	

SOLID RADIOACTIVE WASTE SUMMARY

UNITS 1/2

BSC - Barnwell South Carolina

CN - Chem Nuclear Co.

HN - Hittman Nuclear & Development Co.

QUAD-CITIES STATION - FEBRUARY - 1980

DATE	DISPOSITION OF MATERIAL		VOLUME (ft ³) PER SHIPMENT	VOLUME (ft ³) PER MONTH	MILLCURIES PER SHIPMENT	CURIES PER MONTH
	CO. TRANS.	BURIAL SITE				
2-1-80	NECO	RICHLAND, WA	630		88.02	
2-1-80	HN	BSC	105		26578	
2-4-80	HN	BSC	105		18600.79	
2-6-80	HN	BSC	105		21202.28	
2-7-80	HN	BSC	105		27654.41	
2-9-80	HN	BSC	105		26891	
2-11-80	HN	BSC	105		13798.5	
2-13-80	HN	BSC	50		1391.86	
2-13-80	HN	BSC	105		24069.79	
2-15-80	HN	BSC	105		20997.96	
2-15-80	HN	BSC	105		26354.9	
2-18-80	HN	BSC	105		21367	
2-20-80	HN	BSC	50		4696.55	
2-21-80	HN	BSC	105		15324	
2-22-80	HN	BSC	105		20852	
2-25-80	HN	BSC	50		2393.15	

SOLID RADIOACTIVE WASTE SUMMARY

UNITS 1/2

BSC - Barnwell South Carolina

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HN - Hittman Nuclear & Development Co.

QUAD-CITIES STATION - MARCH - 1980

DATE	DISPOSITION OF MATERIAL		VOLUME (ft ³ , PER SHIPMENT)	VOLUME (ft ³) PER MONTH	MILLICURIES PER SHIPMENT	CURIES PER MONTH
	CO. TRANS.	BURIAL SITE				
3-1-80	HN	BEATTY, NV	135		546	
3-3-80	HN	BSC	50		3291	
3-3-80	HN	BSC	105		29529	
3-4-80	HN	BSC	105		38242	
3-5-80	HN	BSC	105		25848	
3-7-80	HN	BSC	105		15745	
3-8-80	HN	BSC	50		2949	
3-8-80	HN	BSC	105		12069.28	
3-10-80	HN	BEATTY, NV	135		665	
3-10-80	HN	BSC	105		8318	
3-11-80	HN	BSC	105		11250	
3-12-80	NECO	RICHLAND, WA	986.64		96.26	
3-13-80	HN	BSC	50		2949	
3-13-80	HN	BSC	105		13587	
3-14-80	HN	BSC	105		8409	
3-15-80	HN	BSC	105		14371	

SOLID RADIOACTIVE WASTE SUMMARY

UNITS 1/2

BSC - Barnwell South Carolina

CN - Chem Nuclear Co.

HN - Hittman Nuclear & Development Co.

QUA-CITIES STATION - MARCH - 1980.

DATE	DISPOSITION OF MATERIAL		VOLUME (ft ³) PER SHIPMENT	VOLUME (ft ³) PER MONTH	MILLCURIES PER SHIPMENT	CURIES PER MONTH
	CO. TRANS.	BURIAL SITE				
3-17-80	HN	BSC	105		15754	
3-18-80	NECO	RICHLAND, WA	570		179.79	
3-19-80	HN	BSC	105		8429	
3-20-80	HN	BSC	105		17125	
3-20-80	NECO	RICHLAND, WA	1289.75		239.72	
3-21-80	HN	BSC	105		20932	
3-24-80	HN	BSC	105		27048	
3-25-80	HN	BSC	135		573.24	
3-27-80	HN	BSC	105		7638.93	
3-27-80	NECO	RICHLAND, WA	1108.48		81.42	
3-28-80	HN	BSC	105		25690.7	
				6294.87		311.557

SOLID RADIOACTIVE WASTE SUMMARY

UNITS 1/2

BSC - Barnwell South Carolina

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HN - Hittman Nuclear & Development Co.

QUAD-CITIES STATION APRIL - 1980

DATE	DISPOSITION OF MATERIAL		VOLUME (ft ³) PER SHIPMENT	VOLUME (ft ³) PER MONTH	MILLCURIES PER SHIPMENT	CURIES PER MONTH
	CO. TRANS.	BURIAL SITE				
4-2-80	HN	BSC	105		26612	
4-3-80	HN	BSC	105		19009	
4-3-80	HN	BSC	90		4067.83	
4-4-80	HN	BSC	105		26292.52	
4-5-80	HN	BSC	105		16101	
4-7-80	HN	BSC	105		17442	
4-8-80	HN	BSC	105		18753	
4-9-80	HN	BSC	105		16347	
4-9-80	HN	BSC	105		24802	
4-10-80	HN	BSC	90		13561	
4-11-80	HN	BSC	105		24889	
4-12-80	HN	BSC	105		27062	
4-14-80	HN	BSC	105		39743.15	
4-15-80	HN	BSC	1079.77		225.44	
4-16-80	HN	BSC	105		20976	
4-17-80	HN	BSC	105		13559	

SOLID RADIOACTIVE WASTE SUMMARY

UNITS 1/2

BSC - Barnwell South Carolina

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QUAD-CITIES STATION - APRIL - 1980

DATE	DISPOSITION OF MATERIAL		VOLUME (ft ³) PER SHIPMENT	VOLUME (ft ³) PER MONTH	MILLICURIES PER SHIPMENT	CURIES PER MONTH
	CO. TRANS.	BURIAL SITE				
4-17-80	HN	BSC	135		582.95	
4-18-80	NECO	RICHLAND, WA	882.75		70.31	
4-18-80	HN	BSC	105		30074	
4-19-80	HN	BSC	105		25860.14	
4-23-80	HN	BSC	105		22843	
4-23-80	HN	BSC	105		22516	
4-24-80	HN	BSC	105		21299	
4-25-80	NECO	RICHLAND, WA.	910.6		98.1	
4-26-80	HN	BSC	105		26471	
4-28-80	HN	BSC	105		39518	
4-30-80	HN	BSC	105		26089	
				5393.12		524.863

SOLID RADIOACTIVE WASTE SUMMARY

UNITS 1/2

BSC - Barnwell South Carolina

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HN - Hittman Nuclear & Development Co.

QUAD-CITIES STATION - MAY 1980

DATE	DISPOSITION OF MATERIAL		VOLUME (ft ³) PER SHIPMENT	VOLUME (ft ³) PER MONTH	MILLCURIES PER SHIPMENT	CURIES PER MONTH
	CO. TRANS.	BURIAL SITE				
5-2-80	HN	BSC	105		19629	
5-2-80	HN	BSC	90		6240	
5-3-80	HN	BSC	105		30747	
5-5-80	HN	BSC	106		11726	
5-6-80	HN	BSC	52.5		47263	
5-7-80	HN	BSC	105		22907	
5-8-80	HN	BSC	105		22716	
5-8-80	HN	BSC	105		29020.5	
5-9-80	HN	BSC	105.16		28313	
5-9-80	NECO	RICHLAND, WA	1228.83		68.34	
5-10-80	HN	BSC	52.5		34181	
5-12-80	HN	BSC	105		21806.66	
5-14-80	HN	BSC	105		21110.79	
5-14-80	HN	BSC	105		24560.68	
5-15-80	HN	BSC	106		12818.24	
5-16-80	NECO	RICHLAND, WA	337.5		42.9	

SOLID RADIOACTIVE WASTE SUMMARY

UNITS 1/2

BSC - Barnwell South Carolina

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HN - Hittman Nuclear & Development Co.

QUAD-CITIES STATION - MAY 1980

DATE	DISPOSITION OF MATERIAL		VOLUME (ft ³) PER SHIPMENT	VOLUME (ft ³) PER MONTH	MILLCURIES PER SHIPMENT	CURIES PER MONTH
	CO. TRANS.	BURIAL SITE				
5-17-80	HN	BSC	105		17634	
5-19-80	HN	BSC	106		13563.4	
5-20-80	HN	BSC	105		21475	
5-21-80	HN	BSC	105		14122.8	
5-21-80	HN	BSC	105		8361.5	
5-22-80	HN	BSC	105		18913.32	
5-22-80	NECO	RICHLAND, WA	1009.4		121.57	
5-23-80	HN	BSC	106		15231.5	
5-24-80	HN	BSC	105		14676	
5-27-80	HN	BSC	105.2		11002	
5-29-80	HN	BSC	105		16808	
5-29-80	HN	BSC	105		20304	
5-30-80	HN	BSC	106		3220	
				5085.09		508.583

SOLID RADIOACTIVE WASTE SUMMARY

UNITS 1/2

BSC - Barnwell South Carolina

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QUAD-CITIES STATION - JUNE 1980

DATE	DISPOSITION OF MATERIAL		VOLUME (ft ³) PER SHIPMENT	VOLUME (ft ³) PER MONTH	MILLICURIES PER SHIPMENT	CURIES PER MONTH
	CO. TRANS.	BURIAL SITE				
6-2-80	HN	BSC	105		23818	
6-4-80	HN	BSC	106		13331	
6-5-80	HN	BSC	105		19897	
6-5-80	HN	BSC	105		18925	
6-6-80	HN	BSC	53.5		22318	
6-9-80	HN	BSC	105		22780	
6-9-80	HN	BSC	105		17511	
6-10-80	HN	BSC	52.66		12681	
6-11-80	HN	BSC	105		18746	
6-12-80	HN	BSC	105		17796	
6-12-80	HN	BSC	105		12606	
6-13-80	HN	BSC	105		9029	
6-16-80	HN	BSC	105		11579	
6-17-80	HN	BSC	105		21500	
6-18-80	HN	BSC	105		21030	
6-19-80	HN	BSC	105		4361	

SOLID RADIOACTIVE WASTE SUMMARY

UNITS 1/2

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QUAD-CITIES STATION - JUNE - 1980

DATE	DISPOSITION OF MATERIAL		VOLUME (ft ³) PER SHIPMENT	VOLUME (ft ³) PER MONTH	MILLCURIES PER SHIPMENT	CURIES PER MONTH
	CO. TRANS.	BURIAL SITE				
6-20-80	HN	BSC	105		15524	
6-21-80	HN	BSC	53.5		12678	
6-23-80	HN	BSC	105		23921	
6-24-80	HN	BSC	105		16547	
6-25-80	HN	BSC	105		19863	
6-26-80	HN	BSC	105		15892	
6-27-80	HN	BSC	105		11980	
6-27-80	NECO	RICHLAND, WA	337.5		46	
6-28-80	HN	BSC	105		20054	
6-30-80	HN	BSC	105		16747	
				2808.16		406.087