

Docket No. 50-213  
B14312

**Attachment No. 1**

**Haddam Neck Plant**

**Revised Pages to Draft Effluent and  
Waste Disposal Annual Report for 1990**

December 1992

9212140192 921209  
PDR ADOCK 05000213  
R PDR

Installation: Middam Neck

Location: 0.5 M SE Middletown, CT

Unit Number: 1

**Effluent and Waste Disposal Annual Report for 1990**  
**Gaseous Effluents - Summation of All Releases**

	Unit	Quarter		Est Total Error%
		3	4	
<b>A. Fission and Activation Gases</b>				
1. Total Release	ci	3.39E+01	1.43E+03	1.40E+01
2. Average Release Rate for Period	uci/sec	4.26E+00	1.80E+02	
* 3. Percent of Technical Specification Limit	%			
<b>B. Iodines</b>				
1. Total Iodine - 131	ci	N/D	2.55E+03	1.30E+01
2. Average Release Rate for Period	uci/sec	N/A	3.21E+04	
* 3. Percent of Technical Specification Limit	%			
<b>C. Particulates</b>				
1. Particulates with Half-Lives > 8 Days	ci	2.76E+05	<del>4.07E+03</del> 1.91E+03	1.40E+01
2. Average Release Rate for Period	uci/sec	3.47E+06	<del>6.40E+04</del> 2.40E+04	
* 3. Percent of Technical Specification Limit	%			
4. Gross Alpha Radioactivity	ci	N/D	5.84E+06	
<b>D. Tritium</b>				
1. Total Release	ci	6.43E+00	3.99E+01	8.00E+00
2. Average Release Rate for Period	uci/sec	8.09E+01	5.02E+00	
* 3. Percent of Technical Specification Limit	%			

N/A = Not Applicable

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N/D = Not Detectable

\* Limited by dose, not curies

\*Installation: Haddam Neck  
 Unit Number: 1

Location: 9.5 M. SE Middletown, CT

Effluent and Waste Disposal Annual Report for 1990  
 Liquid Effluents - Summation of All Releases

	Unit	Quarter 3	Quarter 4	Est Total Error%
<b>A. Fission and Activation Products</b>				
1. Total Release (Not including Tritium, Cesium, Alpha)	ci	6.98 7.02E-01	1 1.02E-00	1.10E-01
2. Average Diluted Concentration During Period	uci/ml	4.88E-09	1.06E-08	
3. Percent of Applicable Limit	%			
<b>B. Tritium</b>				
1. Total Release	ci	1.66E+01	6.61E-02	3.50E+00
2. Average Diluted Concentration During Period	uci/ml	1.15E-07	3.82E-06	
3. Percent of Applicable Limit	%			
<b>C. Dissolved and Entrained Gases</b>				
1. Total Release	ci	3.74E-03	7.68E-01	1.90E-01
2. Average Diluted Concentration During Period	uci/ml	2.60E-11	4.44E-09	
3. Percent of Applicable Limit	%			
<b>D. Gross Alpha Radioactivity</b>				
1. Total Release	ci	4.41E-03	2.02E-02	8.00E+00
<b>E. Volume of Waste Released (Prior to Dilution)</b>				
	liters	3.60E+07	2.98E+07	3.00E+00
<b>F. Volume of Dilution Water Used During Period</b>				
	liters	1.44E+11	1.73E+11	2.50E+00

N/A = Not Applicable

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N/D = Not Detectable

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