

Exelon Generation  
Quad Cities Generating Station  
22710 206th Avenue North  
Cordova, IL 61242-9740  
Tel 309-654-2241

www.exeloncorp.com

May 1, 2001

SVP-01-046

U. S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555

Quad Cities Nuclear Power Station, Units 1 and 2  
Facility Operating License Nos. DPR-29 and DPR-30  
NRC Docket Nos. 50-254 and 50-265

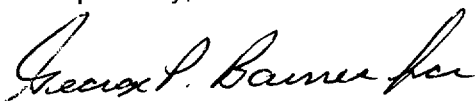
Subject: Correction to Quad Cities Nuclear Power Station's Radioactive Effluent Report for January through December 2000

Reference: T. Tulon (Exelon) letter to USNRC dated March 30, 2001 "Quad Cities Nuclear Power Station's Radioactive Effluent Report for January through December 2000."

In accordance with the Quad Cities Technical Specifications Section 6.9.4 and 10 CFR 50.36a, the referenced letter transmitted to the NRC contained a minor error. While updating trending information station personnel identified that the liquid tritium curie values were erroneously transcribed and reported as gaseous curies released for the first two quarters of 2000. This oversight does not impact the dose values reported. This occurrence was entered into our corrective action program and the remainder of the report was re-verified and found to be acceptable. Attached is a corrected Attachment A of the referenced letter.

Should you have any questions concerning this letter, please contact Mr. W. J. Beck at (309) 654-2241, extension 3609.

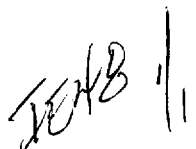
Respectfully,



Timothy J. Tulon  
Site Vice President  
Quad Cities Nuclear Power Station

Attachment: Revised Effluent and Waste Disposal Semiannual Report Supplemental Information

cc: Regional Administrator – NRC Region III  
NRC Senior Resident Inspector – Quad Cities Nuclear Power Station



**Attachment A**  
**Revised Effluent and Waste Disposal Semiannual Report Supplemental**  
**Information, Quad Cities Nuclear Power Station, January – June 2000**  
**SVP-01-046**

ATTACHMENT A (Page 1 of 5)

EFFLUENT & WASTE DISPOSABLE SEMI-ANNUAL REPORT

GASEOUS EFFLUENTS - SUMMATION OF ALL RELEASES

Period: January through June

2000

A. FISSION & ACTIVATION GASES	UNIT	FIRST QUARTER	SECOND QUARTER	Est.Total Error %
1. Total Release	Ci	3.41E+01	4.47E+01	12.4
2. Average release rate for the period	$\mu$ Ci/sec	4.34E00	5.69E00	
3. *Percent of ODCM limit Chimney & Stack	%	1.26E-02	1.72E-02	
		4.28E-04	8.17E-04	

B. IODINE				
1. Total Iodine-131	Ci	1.49E-03	8.80E-04	40.0
2. Average release rate for the period	$\mu$ Ci/sec	1.90E-04	1.12E-04	

C. PARTICULATES				
1. Particulates with half-lives >8 days	Ci	1.74E-03	9.98E-04	30.1
2. Average release rate for the period	$\mu$ Ci/sec	2.21E-04	1.27E-04	
3. Gross alpha radioactivity	Ci	7.58E-06	4.36E-06	

D. TRITIUM				
1. Total Release	Ci	2.59E+01	2.38E+01	8.0
2. Average release rate for the period	$\mu$ Ci/sec	3.29E00	3.03E00	
E. Iodine 131 & 133, Tritium & Particulate				
1. Percent of ODCM limit Chimney & Stack	%	9.71E-02	2.99E-01	

\*NOBLE GAS GAMMA/NOBLE GAS BETA DOSE LIMITS

**ATTACHMENT A (Page 2 of 5)**  
**EFFLUENT & WASTE DISPOSABLE SEMI-ANNUAL REPORT**  
**MAIN CHIMNEY GASEOUS EFFLUENTS**  
**CONTINUOUS MODE**

**BATCH MODE**

NUCLIDES RELEASED	UNIT	FIRST QUARTER	SECOND QUARTER	FIRST QUARTER	SECOND QUARTER
<b>1. Fission gases</b>					
Kr-85	Ci	1.28E-01	<LLD	NA	NA
Kr-85m	Ci	4.76E-01	6.20E-01	NA	NA
Kr-87	Ci	9.51E-01	1.41E00	NA	NA
Kr-88	Ci	5.27E-01	1.13E00	NA	NA
Xe-133	Ci	3.50E00	2.10E00	NA	NA
Xe-135	Ci	1.01E00	3.51E00	NA	NA
Xe-135m	Ci	5.69E00	7.71E00	NA	NA
Xe-138	Ci	2.11E+01	2.81E+01	NA	NA
Ar-41	Ci	1.12E-01	1.50E-01	NA	NA
Xe-131m	Ci	1.20E-01	<LLD	NA	NA
Xe-133m	Ci	3.76E-03	<LLD	NA	NA
<b>Total for Period</b>	<b>Ci</b>	<b>3.36E+01</b>	<b>4.47E+01</b>	<b>NA</b>	<b>NA</b>
<b>2. Iodines</b>					
I-131	Ci	1.09E-03	8.68E-04	NA	NA
I-133	Ci	4.40E-03	2.79E-03	NA	NA
I-135	Ci	4.94E-03	<LLD	NA	NA
<b>Total for period</b>	<b>Ci</b>	<b>1.04E-02</b>	<b>3.66E-03</b>	<b>NA</b>	<b>NA</b>
<b>3. Particulates</b>					
Sr-89	Ci	8.31E-05	1.37E-04	NA	NA
Sr-90	Ci	<LLD	<LLD	NA	NA
Cs-134	Ci	<LLD	<LLD	NA	NA
Cs-137	Ci	4.24E-05	<LLD	NA	NA
Ba-140	Ci	<LLD	1.44E-04	NA	NA
La-140	Ci	<LLD	<LLD	NA	NA
Cr-51	Ci	<LLD	<LLD	NA	NA
Mn-54	Ci	<LLD	3.55E-05	NA	NA
Co-58	Ci	<LLD	<LLD	NA	NA
Co-60	Ci	3.34E-04	2.60E-04	NA	NA
Mo-99	Ci	<LLD	<LLD	NA	NA
Ag-110m	Ci	<LLD	<LLD	NA	NA
<b>Total for Period</b>	<b>Ci</b>	<b>4.60E-04</b>	<b>5.77E-04</b>	<b>NA</b>	<b>NA</b>

**ATTACHMENT A (Page 3 of 5)**  
**EFFLUENT & WASTE DISPOSABLE SEMI-ANNUAL REPORT**  
 REACTOR VENTILATION GASEOUS EFFLUENTS  
 CONTINUOUS MODE BATCH MODE

NUCLIDES RELEASED	UNIT	FIRST QUARTER	SECOND QUARTER	FIRST QUARTER	SECOND QUARTER
<b>1. Fission gases</b>					
Kr-85	Ci	<LLD	<LLD	NA	NA
Kr-85m	Ci	<LLD	<LLD	NA	NA
Kr-87	Ci	<LLD	<LLD	NA	NA
Kr-88	Ci	<LLD	<LLD	NA	NA
Xe-133	Ci	4.51E-01	<LLD	NA	NA
Xe-135	Ci	<LLD	<LLD	NA	NA
Xe-135m	Ci	<LLD	<LLD	NA	NA
Xe-138	Ci	<LLD	<LLD	NA	NA
AR-41		<LLD	<LLD	NA	NA
<b>Total for Period</b>	<b>Ci</b>	<b>4.51E-01</b>	<b>&lt;LLD</b>	<b>NA</b>	<b>NA</b>
<b>2. Iodines</b>					
I-131	Ci	4.02E-04	1.18E-05	NA	NA
I-133	Ci	<LLD	<LLD	NA	NA
I-135	Ci	<LLD	<LLD	NA	NA
<b>Total for period</b>	<b>Ci</b>	<b>4.02E-04</b>	<b>1.18E-05</b>	<b>NA</b>	<b>NA</b>
<b>3. Particulates</b>					
Sr-89	Ci	<LLD	<LLD	NA	NA
Sr-90	Ci	<LLD	<LLD	NA	NA
Cs-134	Ci	<LLD	<LLD	NA	NA
Cs-137	Ci	1.31E-05	<LLD	NA	NA
Ba-140	Ci	<LLD	<LLD	NA	NA
La-140	Ci	<LLD	<LLD	NA	NA
Cr-51	Ci	2.18E-04	<LLD	NA	NA
Mn-54	Ci	1.11E-04	2.89E-05	NA	NA
Co-58	Ci	8.99E-06	<LLD	NA	NA
Fe-59	Ci	8.92E-06	<LLD	NA	NA
Co-60	Ci	9.22E-04	3.92E-04	NA	NA
Mo-99	Ci	<LLD	<LLD	NA	NA
Ag-110m	Ci	<LLD	<LLD	NA	NA
<b>Total for Period</b>	<b>Ci</b>	<b>1.28E-03</b>	<b>4.21E-04</b>	<b>NA</b>	<b>NA</b>

ATTACHMENT A (Page 4 of 5)

**EFFLUENT & WASTE DISPOSABLE SEMI-ANNUAL REPORT**  
 LIQUID EFFLUENTS - SUMMATION OF ALL RELEASES

A. FISSION & ACTIVATION GASES	UNIT	FIRST QUARTER	SECOND QUARTER	Est.Total Error %
1. Total Release (not including tritium, gases & alpha)	Ci	1.54E-03	2.29E-03	5.6
2. Average diluted concentration during batch discharges for the period	μCi/mL	2.05E-10	1.89E-10	
3. Percent of applicable limit*	WB % O %	1.51E-03 6.38E-04	2.47E-03 1.06E-03	
4. Maximum diluted concentration during batch discharges	μCi/mL	5.34E-10	1.53E-10	
<b>B. TRITIUM</b>				
1. Total Release	Ci	6.10E00	6.99E00	4.0
2. Average diluted concentration during batch discharges for the period	μCi/mL	8.11E-07	5.78E-07	
3. Percent of applicable limit	%	2.70E-02	1.93E-02	
<b>C. DISSOLVED &amp; ENTRAINED GASES</b>				
1. Total Release	Ci	1.49E-04	6.38E-05	5.6
2. Average diluted concentration during batch discharges for the period	μCi/mL	1.98E-11	5.27E-12	
3. Percent of applicable limit	%	9.91E-06	2.64E-06	
<b>D. GROSS ALPHA ACTIVITY</b>				
1. Total Release	Ci	<LLD	<LLD	14.8
2. Average diluted concentration during batch discharges for the period	μCi/mL	<LLD	<LLD	
<b>E. VOLUME OF WASTE RELEASED (prior to dilution)</b>				
	Liters	1.68E+06	1.30E+06	
<b>F. VOLUME OF DILUTION WATER USED DURING BATCH DISCHARGES</b>				
	Liters	7.52E+09	1.21E+10	
<b>G. TOTAL VOLUME OF DILUTION WATER USED DURING PERIOD (quarter)</b>				
	Liters	2.78E+11	4.24E+11	

\*Whole Body/Organ (ODCM)

ATTACHMENT A (Page 5 of 5)



EFFLUENT & WASTE DISPOSABLE SEMI-ANNUAL REPORT

LIQUID EFFLUENTS

CONTINUOUS MODE

BATCH MODE

NUCLIDES RELEASED	UNIT	FIRST QUARTER	SECOND QUARTER	FIRST QUARTER	SECOND QUARTER
Sr-89	Ci	<LLD	<LLD	<LLD	<LLD
Sr-90	Ci	<LLD	<LLD	<LLD	<LLD
Cs-134	Ci	<LLD	<LLD	<LLD	<LLD
Cs-137	Ci	<LLD	<LLD	2.13E-04	4.53E-04
I-131	Ci	<LLD	<LLD	<LLD	<LLD
Co-60	Ci	<LLD	<LLD	1.03E-03	6.54E-04
Co-58	Ci	<LLD	<LLD	9.59E-05	<LLD
Fe-59	Ci	<LLD	<LLD	<LLD	<LLD
Zn-65	Ci	<LLD	<LLD	<LLD	<LLD
Mn-54	Ci	<LLD	<LLD	2.02E-04	5.35E-05
Cr-51	Ci	<LLD	<LLD	<LLD	<LLD
Zr-95	Ci	<LLD	<LLD	<LLD	<LLD
Nb-95	Ci	<LLD	<LLD	<LLD	<LLD
Mo-99	Ci	<LLD	<LLD	<LLD	<LLD
Ag-110m	Ci	<LLD	<LLD	<LLD	4.94E-05
Ba-140	Ci	<LLD	<LLD	<LLD	<LLD
La-140	Ci	<LLD	<LLD	<LLD	<LLD
Fe-55	Ci	<LLD	<LLD	<LLD	1.07E-03
Sb-124	Ci	<LLD	<LLD	<LLD	1.16E-05
Total for Period (above)	Ci	<LLD	<LLD	1.54E-03	2.29E-03
Xe-133	Ci	<LLD	<LLD	1.49E-04	6.38E-05
Xe-135	Ci	<LLD	<LLD	<LLD	<LLD

Prepared by:  Date: 04/16/01  
 Approved by:  Date: 4/17/01