

UPDATE TO THE
GRAND GULF NUCLEAR STATION
SEMIANNUAL RADIOACTIVE EFFLUENT RELEASE REPORT
JULY 1, 1989 - DECEMBER 31, 1989

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TABLE A

EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1989

*AMENDED

CASEOUS EFFLUENTS SUMMATION OF ALL RELEASES

JULY

DECEMBER 1989

	Unit	Quarter	Quarter	Est Total
(Grand Gulf Nuclear Station UNIT 1)		3	4	Error %
A. Fission & Activation Gases				
1. Total release	Ci	5.99E+01	4.47E+01	6.90E+01
2. Average release rate for period	uCi/sec	7.62E+00	5.68E+00	
3. % of Technical specification limit	%	1.14E+00	6.39E-01	
B. Iodines				
1. Total iodine-131	Ci	5.12E-04	7.60E-05	7.10E+01
2. Average release rate for period	uCi/sec	6.52E-05	9.67E-06	
3. % of Technical specification limit	%	2.56E-02	3.80E-03	
C. Particulates				
1. Particulates with half lives > 8 days	Ci	6.25E-04	1.74E-05	6.90E+01
2. Average release rate for period	uCi/sec	7.96E-05	2.31E-06	
3. % of Technical specification limit	%	3.98E-02	3.15E-03	
4. Gross alpha radioactivity	Ci	4.47E-07	2.49E-07	
D. Tritium				
1. Total release	Ci	6.92E-01	1.17E+00	6.60E+01
2. Average release rate for period	uCi/sec	8.80E-02	1.49E-01	
3. % of Technical specification limit	%	5.19E-03	1.00E-02	
E. Tritium, radioiodines and particulates				
1. % of Technical specification limit	%	4.50E-02	1.32E-02	

* Reverification of data showed Gaseous radio-iodine was also included in the Fission & Activation Gases category for the third quarter 1989 reporting period. As a result, GGNS revised Table 1A and 1C in September 1992.

TABLE 1C
Grand Gulf Nuclear Station UNIT 1
JULY - DECEMBER 1989
EFFLUENT AND WASTE DISPOSAL SEMIANNUAL REPORT 1989
GASEOUS EFFLUENTS-GROUND-LEVEL RELEASE

*AMENDED

CONTINUOUS MODE

BATCH MODE

Nuclides Released	Unit	Quarter 3	Quarter 4	Quarter 3	Quarter 4
1. Fission gases					
KR-89	Ci	2.20E+01	1.23E+01	0.00E+00	0.00E+00
XE-133	Ci	8.81E+00	2.46E+01	0.00E+00	0.00E+00
XE-135	Ci	2.04E+01	6.63E+00	0.00E+00	0.00E+00
AR-41	Ci	0.00E+00	4.61E-02	0.00E+00	0.00E+00
KR-85M	Ci	8.73E-02	1.40E-01	0.00E+00	0.00E+00
KR-88	Ci	2.13E-03	1.05E-01	0.00E+00	0.00E+00
XE-133M	Ci	1.46E-02	3.83E-01	0.00E+00	0.00E+00
XE-131M	Ci	0.00E+00	2.00E-02	0.00E+00	0.00E+00
F-18	Ci	7.33E-01	3.97E-01	0.00E+00	0.00E+00
XE-135M	Ci	7.88E+00	6.89E-02	0.00E+00	0.00E+00
KR-87	Ci	0.00E+00	1.24E-02	0.00E+00	0.00E+00
Total for period	Ci	5.99E+01	4.47E+01	0.00E+00	0.00E+00
2. Iodines					
I-131	Ci	5.09E-04	7.60E-05	0.00E+00	0.00E+00
I-132	Ci	0.00E+00	0.00E+00	0.00E+00	0.00E+00
I-133	Ci	9.87E-04	1.30E-04	0.00E+00	0.00E+00
I-134	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
Total for period	Ci	1.50E-03	2.06E-04	0.00E+00	0.00E+00
3. Particulates					
H-3	Ci	6.92E-01	1.17E+00	0.00E+00	0.00E+00
Sr-89	Ci	4.05E-07	1.61E-07	0.00E+00	0.00E+00
Sr-90	Ci	4.57E-07	1.0E-07	0.00E+00	0.00E+00
I-131	Ci	3.56E-06	0.00E+00	0.00E+00	0.00E+00
AS-76	Ci	2.27E-05	0.00E+00	0.00E+00	0.00E+00
MN-54	Ci	3.44E-05	5.93E-06	0.00E+00	0.00E+00
CO-60	Ci	2.93E-05	1.12E-05	0.00E+00	0.00E+00
CR-51	Ci	1.41E-04	0.00E+00	0.00E+00	0.00E+00
CO-53	Ci	6.39E-06	0.00E+00	0.00E+00	0.00E+00
FE-59	Ci	3.24E-06	0.00E+00	0.00E+00	0.00E+00
CS-134	Ci	1.17E-06	0.00E+00	0.00E+00	0.00E+00
CS-137	Ci	2.51E-06	0.00E+00	0.00E+00	0.00E+00
TC-99M	Ci	3.42E-04	0.00E+00	0.00E+00	0.00E+00
RU-106	Ci	4.76E-06	0.00E+00	0.00E+00	0.00E+00
NA-24	Ci	3.37E-05	0.00E+00	0.00E+00	0.00E+00
Total for period	Ci	6.92E-01	1.17E+00	0.00E+00	0.00E+00

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