

Omaha Public Power District  
444 South 16th Street Mall  
Omaha, Nebraska 68102-2247  
402/636-2000

May 10, 1991  
LIC-91-155R

U. S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Mail Station P1-137  
Washington, DC 20555

References: 1. Docket No. 50-285  
2. Letter from OPPD (W. G. Gates) to NRC (Document Control Desk) dated February 21, 1990 (LIC-90-140)  
3. Letter from OPPD (W. G. Gates) to NRC (Document Control Desk) dated April 12, 1990 (LIC-90-0204)

Gentlemen:

SUBJECT: Revision to Semi-Annual Radioactive Effluent Release Report for the period of July 31, 1989 through December 31, 1989

Pursuant to the requirements of Technical Specification 5.9.4.a.2, Omaha Public Power District (OPPD) is sending this letter to correct a typographical error in Reference 3 concerning Strontium (Sr) results. Reference 3 was intended to supplement OPPD's Semi-Annual Radioactive Effluent Release Report for the period of July 31, 1989 through December 31, 1989 (Reference 2) with Sr-89 and Sr-90 data that was not available at the time Reference 2 was submitted.

Reference 3 incorrectly stated that the batch release liquid effluent concentrations of Sr-89 and Sr-90 for the fourth quarter of 1989 were below the lower limit of detection and reported their curie values as "0" (zero). Batch release concentrations of Sr-89 and Sr-90 for the fourth quarter of 1989 were actually  $4.17\text{E-}05$  and  $1.38\text{E-}04$  curies respectively. This error was detected during a review of Fort Calhoun Station's radioactive effluents data from 1989 as requested by the Brookhaven National Laboratory.

OPPD's Semi-Annual Radioactive Effluent Release Report for July 31, 1989 through December 31, 1989, has been updated with the correct Sr data. The updated tables (2A & 2B) are attached.

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Employment with Equal Opportunity  
Male/Female

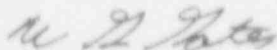
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If you should have any questions, please contact me.

Sincerely,



W. G. Gates  
Division Manager  
Nuclear Operations

WGG/sel

Attachment

c: LeBoeuf, Lamb, Leiby & MacRae  
R. D. Martin, NRC Regional Administrator, Region IV  
W. C. Walker, NRC Project Manager  
R. P. Mullikin, NRC Senior Resident Inspector  
M. Mehrhoff, University of Iowa  
J. L. Tichler, Brookhaven National Laboratory

TABLE 2A

## EFFLUENT AND WASTE DISPOSAL REPORT

## LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

SEMIANNUAL FOR JULY THRU DEC 89

		3 QUARTER	4 QUARTER
A. FISSION&ACTIVATION PRODUCTS			
TOTAL RELEASE (NO			
TRITIUM,GAS,ALPHA) CI	1.61E-01	2.04E-01	
AVG DILUTED			
CONCENTRATION UCI/ML	7.82E-10	1.13E-09	
PERCENT OF LIMIT			
10 CFR 20, APP. B = 1.0E-07 %	7.82E-01	1.13E+00	
B. TRITIUM			
TOTAL RELEASE CI	6.49E+01	8.43E+01	
AVG DILUTED			
CONCENTRATION UCI/ML	3.16E-07	4.66E-07	
PERCENT OF LIMIT			
10 CFR 20, APP. B = 3.0E-03 %	1.05E-02	1.55E-02	
C. DISSOLVED&ENTRAINED GASES			
TOTAL RELEASE CI	1.19E-02	4.74E-02	
AVG DILUTED			
CONCENTRATION UCI/ML	5.77E-11	2.62E-10	
PERCENT OF LIMIT			
TECH SPEC = 2.0E-04 UCI/ML %	2.89E-05	1.31E-04	
D. GROSS ALPHA RADIOACTIVITY			
TOTAL RELEASE CI	0.00E+00	0.00E+00	
E. VOLUME OF WASTE RELEASE			
PRIOR TO DIL. LITERS	4.80E+07	4.07E+07	
F. VOLUME OF DILU. ON WATER			
THIS PERIOD LITERS	2.06E+11	1.81E+11	

TABLE 2B

## EFFLUENT AND WASTE DISPOSAL REPORT

## LIQUID EFFLUENTS-SUMMATION OF ALL RELEASES

SEMIANNUAL FOR JULY THRU DEC 89

NUCLIDES IN CURIES	3 QUARTER		4 QUARTER		CONT - Continuous Release BATCH - Batch Release
	CONT	BATCH	CONT	BATCH	
STRONTIUM-89	0.00E+00	2.10E-04	0.00E+00	4.17E-05	
STRONTIUM-90	0.00E+00	3.95E-05	0.00E+00	1.38E-04	
COBALT-57	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
POLYBODENUM-99	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
TECHNETIUM-99M	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
CERIUM-141	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
TIN-117M	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
CHROMIUM-51	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
IODINE-131	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
IODINE-133	0.00E+00	3.69E-04	0.00E+00	1.79E-03	
BARIUM-140	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
RUTHENIUM-103	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
CESIUM-137	0.00E+00	0.00E+00	0.00E+00	1.52E-01	
ZIRCONIUM-95	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
NIOBIUM-95	0.00E+00	0.00E+00	0.00E+00	1.07E-02	
CESIUM-134	0.00E+00	3.79E-02	0.00E+00	3.16E-02	
COBALT-58	0.00E+00	6.66E-03	0.00E+00	3.39E-03	
MANGANESE-54	0.00E+00	2.13E-04	0.00E+00	3.35E-04	
CESIUM-136	0.00E+00	0.00E+00	0.00E+00	5.65E-05	
IRON-59	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
ZINC-65	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
COBALT-60	0.00E+00	2.76E-03	0.00E+00	4.85E-03	
LANTHANUM-140	0.00E+00	1.35E-03	0.00E+00	5.57E-03	
ANTIMONY-124	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
CERIUM-144	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
ANTIMONY-125	0.00E+00	8.02E-04	0.00E+00	3.69E-03	
SILVER-110M	0.00E+00	0.00E+00	0.00E+00	2.52E-04	
RUTHENIUM-106	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
SELENIUM-75	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
ANTIMONY-126	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
TOTAL FOR PERIOD	0.00E+00	1.61E-01	0.00E+00	2.04E-01	
DISSOLVED GASES					
ENTRAINED GASES					
XENON-133	0.00E+00	1.19E-02	0.00E+00	4.71E-02	
XENON-135	0.00E+00	0.00E+00	0.00E+00	3.69E-04	
TOTAL FOR PERIOD	0.00E+00	1.19E-02	0.00E+00	4.74E-02	
OTHER, ALPHA & TRITIUM					
ALPHA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
TRITIUM	0.00E+00	6.49E-01	0.00E+00	8.43E-01	
GROSS BETA/GAMMA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
TOTAL FOR PERIOD	0.00E+00	6.49E-01	0.00E+00	8.43E-01	
AVG. CONC. IN UCI/ML					
ALPHA	0.00E+00	0.00E+00	0.00E+00	0.00E+00	
TRITIUM	0.00E+00	2.72E-05	0.00E+00	3.84E-05	