

NEBRASKA PUBLIC POWER DISTRICT

COOPER NUCLEAR STATION

SEMIANNUAL OPERATING REPORT

RADIOACTIVE EFFLUENTS

July 1, 1983 through December 31, 1983

USNRC Docket 50-298

ERRATA

July 13, 1984

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## ERRATA

Listed below are the corrected versions of Tables 5, 6, 9, and 11 contained in Appendix C of the second semiannual operating report for 1983 which are contained in this errata.

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Table 5. Doses to Maximum Individual, July-September 1983

COOPER NUCLEAR STATION JULY-SEPTEMBER, 1983  
SPECIAL LOCATION # 1 SITE BOUNDARY  
AT 0.70 MILES N

ANNUAL BETA AIR DOSE = 1.87E-01 MILLRADS  
ANNUAL GAMMA AIR DOSE = 3.09E-01 MILLRADS

PATHWAY	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.08E-01	2.08E-01	2.08E-01	2.08E-01	2.08E-01	2.08E-01	2.09E-01	3.99E-01
GROUND	2.24E-02	2.24E-02	2.24E-02	2.24E-02	2.24E-02	2.24E-02	2.24E-02	2.63E-02
VEGET	7.95E-03	3.55E-03	2.37E-02	3.33E-02	1.13E-03	1.67E-02	3.44E-04	0.00E-01
MEAT	3.32E-04	7.30E-04	4.21E-04	2.95E-04	9.40E-05	1.94E-03	2.78E-05	0.00E-01
COW MILK	1.91E-03	2.94E-04	2.32E-03	2.31E-03	9.95E-04	5.34E-02	2.35E-04	0.00E-01
INHAL	6.35E-05	7.92E-05	5.26E-04	4.56E-05	2.75E-05	2.06E-03	1.03E-03	0.00E-01

COOPER NUCLEAR STATION JULY-SEPTEMBER, 1983  
SPECIAL LOCATION # 2 NEAREST RESIDENCE AND GARDEN  
AT 1.00 MILES W

ANNUAL BETA AIR DOSE = 1.15E-02 MILLRADS  
ANNUAL GAMMA AIR DOSE = 2.01E-02 MILLRADS

PATHWAY	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	1.35E-02	1.05E-02	1.35E-02	1.35E-02	1.35E-02	1.35E-02	1.37E-02	2.51E-02
GROUND	6.52E-04	6.52E-04	6.52E-04	6.52E-04	6.52E-04	6.52E-04	6.52E-04	7.66E-04
VEGET	2.32E-04	1.04E-04	6.91E-04	9.72E-05	3.32E-05	5.24E-04	1.00E-05	0.00E-01
MEAT	9.68E-06	2.13E-05	1.23E-05	8.62E-06	2.76E-06	6.08E-05	8.12E-07	0.00E-01
COW MILK	5.59E-05	8.67E-06	6.81E-05	6.77E-05	2.96E-05	1.68E-03	6.87E-06	0.00E-01
INHAL	3.65E-06	4.57E-06	2.92E-05	2.85E-06	2.10E-06	1.93E-04	5.71E-05	0.00E-01

Table 6. Doses to Maximum Individual, October-December 1983

COOPER NUCLEAR STATION OCTOBER-DECEMBER, 1983  
SPECIAL LOCATION # 1 SITE BOUNDARY  
AT 0.63 MILES NNE

ANNUAL BETA AIR DOSE = 8.15E-02 MILLRADS  
ANNUAL GAMMA AIR DOSE = 1.33E-01 MILLRADS

PATHWAY	T BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	: 8.96E-02	: 8.96E-02	: 8.96E-02	: 8.96E-02	: 8.96E-02	: 8.96E-02	: 9.05E-02	: 1.72E-01
GROUND	: 3.33E-03	: 3.33E-03	: 3.33E-03	: 3.33E-03	: 3.33E-03	: 3.33E-03	: 3.33E-03	: 3.91E-03
VEGET	: 5.62E-03	: 1.04E-03	: 2.11E-02	: 7.88E-04	: 2.73E-04	: 3.85E-03	: 8.35E-05	: 0.00E-01
MEAT	: 1.15E-04	: 1.11E-04	: 2.83E-04	: 6.75E-05	: 2.26E-05	: 4.40E-04	: 6.76E-06	: 0.00E-01
COW MILK	: 6.24E-04	: 7.81E-05	: 1.24E-03	: 5.58E-04	: 2.38E-04	: 1.22E-02	: 5.72E-05	: 0.00E-01
INHAL	: 4.85E-05	: 2.90E-05	: 6.14E-04	: 1.68E-05	: 1.26E-05	: 1.10E-03	: 2.90E-04	: 0.00E-01

COOPER NUCLEAR STATION OCTOBER-DECEMBER, 1983  
SPECIAL LOCATION # 2 NEAREST RESIDENCE AND GARDEN  
AT 1.00 MILES W

ANNUAL BETA AIR DOSE = 1.70E-02 MILLRADS  
ANNUAL GAMMA AIR DOSE = 2.92E-02 MILLRADS

PATHWAY	T BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	: 1.97E-02	: 1.97E-02	: 1.97E-02	: 1.97E-02	: 1.97E-02	: 1.97E-02	: 1.99E-02	: 3.68E-02
GROUND	: 4.63E-04	: 4.63E-04	: 4.63E-04	: 4.63E-04	: 4.63E-04	: 4.63E-04	: 4.63E-04	: 5.44E-04
VEGET	: 9.43E-04	: 1.71E-04	: 3.61E-03	: 1.12E-04	: 4.19E-05	: 1.20E-03	: 1.17E-05	: 0.00E-01
MEAT	: 1.81E-05	: 1.62E-05	: 4.77E-05	: 9.65E-06	: 3.55E-06	: 1.36E-04	: 9.44E-07	: 0.00E-01
COW MILK	: 9.77E-05	: 1.45E-05	: 2.07E-04	: 8.46E-05	: 4.47E-05	: 3.81E-03	: 7.98E-06	: 0.00E-01
INHAL	: 7.98E-06	: 5.16E-06	: 1.00E-04	: 3.16E-06	: 3.07E-06	: 3.09E-04	: 4.60E-05	: 0.00E-01

Table 9. Doses to Maximum Individual, July-December 1983

COOPER NUCLEAR STATION JULY-DECEMBER, 1983  
SPECIAL LOCATION # 1 SITE BOUNDARY  
AT 0.70 MILES N

ANNUAL BETA AIR DOSE = 3.46E-01 MILLRADS  
ANNUAL GAMMA AIR DOSE = 5.67E-01 MILLRADS

PATHWAY	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	2.90E-01	2.90E-01	2.90E-01	2.90E-01	2.90E-01	2.90E-01	2.93E-01	5.59E-01
GROUND	2.02E-02	2.02E-02	2.02E-02	2.02E-02	2.02E-02	2.02E-02	2.02E-02	2.38E-02
VEGET	1.61E-02	4.82E-03	5.44E-02	4.17E-03	1.85E-03	1.85E-02	1.01E-03	6.38E-04
MEAT	5.21E-04	7.65E-04	7.93E-04	4.07E-04	1.99E-04	2.15E-03	1.28E-04	9.86E-05
COW MILK	2.58E-03	5.63E-04	3.77E-03	2.70E-03	1.30E-03	5.71E-02	4.84E-04	2.32E-04
INHAL	8.02E-04	7.85E-04	1.18E-03	7.47E-04	7.30E-04	3.59E-03	1.76E-03	6.94E-04

COOPER NUCLEAR STATION JULY-DECEMBER, 1983  
SPECIAL LOCATION # 2 NEAREST RESIDENCE AND GARDEN  
AT 1.00 MILES W

ANNUAL BETA AIR DOSE = 5.13E-02 MILLRADS  
ANNUAL GAMMA AIR DOSE = 9.39E-02 MILLRADS

PATHWAY	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	4.36E-02	4.36E-02	4.36E-02	4.36E-02	4.36E-02	4.36E-02	4.39E-02	7.83E-02
GROUND	1.26E-03	1.26E-03	1.26E-03	1.26E-03	1.26E-03	1.26E-03	1.26E-03	1.48E-03
VEGET	1.11E-03	3.45E-04	3.71E-03	2.95E-04	1.51E-04	2.00E-03	9.40E-05	7.09E-05
MEAT	3.84E-05	5.30E-05	5.36E-05	3.06E-05	1.77E-05	2.32E-04	1.28E-05	1.09E-05
COW MILK	1.81E-04	4.97E-05	2.55E-04	1.89E-04	1.06E-04	6.15E-03	4.15E-05	2.57E-05
INHAL	8.85E-05	8.70E-05	1.23E-04	8.33E-05	8.24E-05	5.99E-04	1.84E-04	7.71E-05

Table 11. Doses to Maximum Individual, January-December 1983

COOPER NUCLEAR STATION JANUARY-DECEMBER, 1983  
SPECIAL LOCATION # 1 SITE BOUNDARY  
AT 0.80 MILES NW

ANNUAL BETA AIR DOSE = 6.89E-01 MILLRADS  
ANNUAL GAMMA AIR DOSE = 1.13E+00 MILLRADS

PATHWAY	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	3.77E-01	3.77E-01	3.77E-01	3.77E-01	3.77E-01	3.77E-01	3.80E-01	7.24E-01
GROUND	1.29E-02	1.29E-02	1.29E-02	1.29E-02	1.29E-02	1.29E-02	1.29E-02	1.51E-02
VEGET	1.82E-02	4.62E-03	6.23E-02	4.52E-03	2.69E-03	1.30E-01	1.33E-03	1.00E-03
MEAT	5.76E-04	5.87E-04	9.01E-04	4.69E-04	3.19E-04	1.55E-02	1.82E-04	1.55E-04
COW MILK	3.27E-03	9.48E-04	4.76E-03	3.73E-03	3.25E-03	4.17E-01	5.92E-04	3.63E-04
INHAL	1.27E-03	1.20E-03	1.72E-03	1.22E-03	1.26E-03	2.98E-02	2.05E-03	1.09E-03

COOPER NUCLEAR STATION JANUARY-DECEMBER, 1983  
SPECIAL LOCATION # 2 NEAREST RESIDENCE AND GARDEN  
AT 1.00 MILES W

ANNUAL BETA AIR DOSE = 1.16E-01 MILLRADS  
ANNUAL GAMMA AIR DOSE = 2.03E-01 MILLRADS

PATHWAY	T. BODY	GI-TRACT	BONE	LIVER	KIDNEY	THYROID	LUNG	SKIN
PLUME	7.36E-02	7.36E-02	7.36E-02	7.36E-02	7.36E-02	7.36E-02	7.43E-02	1.38E-01
GROUND	1.70E-03	1.70E-03	1.70E-03	1.70E-03	1.70E-03	1.70E-03	1.70E-03	2.00E-03
VEGET	2.34E-03	6.85E-04	8.55E-03	6.77E-04	4.29E-04	2.08E-02	2.24E-04	1.77E-04
MEAT	8.56E-05	8.68E-05	1.27E-04	7.20E-05	5.19E-05	2.48E-03	3.12E-05	2.74E-05
COW MILK	4.81E-04	1.55E-04	6.82E-04	5.60E-04	5.12E-04	6.66E-02	9.63E-05	6.44E-05
INHAL	2.24E-04	2.15E-04	2.89E-04	2.18E-04	2.26E-04	5.52E-03	3.65E-04	1.93E-04