

ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM SUMMARY

TURKEY POINT PLANT UNITS 3 & 4

DOCKET NO. 50-250, 251

DADE COUNTY, FLORIDA

1-1-80 TO 6-30-80

8009090311

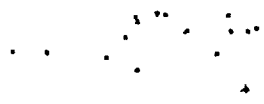


Table I

Medium or Pathway Sampled	Unit	Analysis for	Number of			All Indicator Locations		Location with Highest Mean			Control Location (a)		Number of Nonrouting Reported Measurements
			Sites	Samples	Analyses	Mean	Range	Sample Location Distance & Direction	Mean	Range	Mean	Range	
1.0 Air Filters													
1.1 Air Particulates	pCi/m ³	Gross β	8	216	214*	.020	.004-.068	T-57: Dolan's Farm, WNW, 4.5 Miles	.023	.008-.054	.023	.013-.060	
1.1A Air Iodines	pCi/m ³	¹³¹ I	8	216	214*	ND	NA	NA	NA	NA	ND	NA	
1.2 Direct Radiation	μ Rcm/hr.	γ	11	66	66	4.8	2.6-6.1	T-78: Onsite Ranger House	5.3	4.6-6.1	5.05	3.5-6.0	
1.3 Precipitation	pCi/L	Gross β -DS	4	19	19	2.8	ND-4.4	T-52: Florida City, Substation, W., 8 miles	1.7	ND-4.0	1.86	ND-3.8	
		Gross β -UDS	4	19	19	ND	NA	NA	NA	NA	NA	NA	
		γ Scan	4	19	19	ND	NA	NA	NA	NA	ND	NA	
		³ H	4	19	19	<200	NA	NA	NA	NA	<200	NA	
2.0 Water													
2.1.1 Estuarine	pCi/L	³ H	10	20	20	204	<200-280	T-81: Card Sound, New discharge canal	227	<200-280	NA	NA	
		⁴⁰ K	10	20	20	370	240-430	T-81: Card Sound, New discharge canal	303	330-430	NA	NA	
		⁸⁹ Sr	10	20	20	ND	NA	NA	NA	NA	NA	NA	
		⁹⁰ Sr	10	20	20	ND	NA	NA	NA	NA	NA	NA	

* Two samples were not analyzed because the particulate filters were missing upon sample collection



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2.1.2 Cooling Canal	pCi/L	3H	2	12	12	5300	3600-6900	T-84: Discharge Canal South Side of Bridge	5550	4200-6800	NA	NA	
		40K	2	12	12	410	350-460	T-97: Loch Rosetta Onsite	413	380-460	NA	NA	
		89Sr	2	12	12	ND	NA	NA	NA	NA	NA	NA	
		90Sr	2	12	12	ND	NA	NA	NA	NA	NA	NA	
2.1.3 Fresh Water	pCi/L	Gross β -DS	2	13	13	118	3.0-370	T-75: Fl. City Canal NNW, 1.5 miles	216	4.5-370	NA	NA	
		Gross β -UDS	2	13	13	ND	NA	NA	NA	NA	NA	NA	
		3H	2	13	13	275	<200-650	T-75: Fl. City Canal NNW, 1.5 miles	342	<200-650	NA	NA	
2.2 Potable Water Wells	pCi/L	Gross β -DS	3	6	6	10	4.4-14	T-57: Dolan's Farm, WW, 4.5 miles	13.5	13-14	NA	NA	
		Gross β -UDS	3	6	6	ND	NA	NA	NA	NA	NA	NA	
		3H	3	6	6	<200	<200	NA	ND	NA	NA	NA	
2.3 Ground Water Wells	pCi/L	3H	6	12	12	780	<200-1020	T-92: Well G24A	1710	1600-1820	NA	NA	
		89Sr	6	12	12	ND	NA	NA	NA	NA	NA	NA	
		90Sr	6	12	12	ND	NA	NA	NA	NA	NA	NA	
		40K	6	12	12	310	280-360	T-87: Well E10	345	340-350	NA	NA	



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3.0 Bottom Sediments													
3.1 Cooling Canal	pCi/kg	⁵⁸ Co	2	4	4	95	ND-380	T-85: Discharge Canal, at W. Side of 90° bend	380	NA	NA	NA	
		⁶⁰ Co	2	4	4	508	200-1200	T-85: Discharge Canal, at W. Side of 90° bend	730	260-1200	NA	NA	
		²²⁶ Ra	2	4	4	2275	1900-2700	T-84: Discharge Canal, South side of bridge	2300	1900-2700	NA	NA	
		²³² Th	2	4	4	ND	NA	NA	NA	NA	NA	NA	
		⁴⁰ K	2	4	4	ND	NA	NA	NA	NA	NA	NA	
		⁸⁹ Sr	2	4	4	ND	NA	NA	NA	NA	NA	NA	
		⁹⁰ Sr	2	4	4	ND	NA	NA	NA	NA	NA	NA	
3.2 Estuarine	pCi/kg	²²⁶ Ra	7	8	8	752	250-1000	T-81: Card South, New discharge canal	1500	1200-1800	NA	NA	
		²³² Th	7	8	8	ND	NA	NA	NA	NA	NA	NA	
		⁴⁰ K	7	8	8	ND	NA	NA	NA	NA	NA	NA	
		⁶⁰ Co	7	8	8	ND	NA	NA	NA	NA	NA	NA	
		⁸⁹ Sr	7	8	8	ND	NA	NA	NA	NA	NA	NA	
		⁹⁰ Sr	7	8	8	ND	NA	NA	NA	NA	NA	NA	



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4.0 Aquatic Biota													
4.1 Crustacea (f)	pCi/kg	⁴⁰ K	6	1	1	1300	NA	NA	NA	NA	NA	NA	
		²²⁶ Ra	6	1	1	450	NA	NA	NA	NA	NA	NA	
		²³² Th	6	1	1	ND	NA	NA	NA	NA	NA	NA	
		¹⁰⁶ Ru	6	1	1	ND	NA	NA	NA	NA	NA	NA	
		⁸⁹ Sr	6	1	1	ND	NA	NA	NA	NA	NA	NA	
		⁹⁰ Sr	6	1	1	ND	NA	NA	NA	NA	NA	NA	
4.2.A Fish-Carnivore (a,h)	pCi/kg	⁴⁰ K	7	7	7	3500	3100-4200	T-81: Card Sound, New discharge canal	4200	NA	NA	NA	
		²²⁶ Ra	7	7	7	204	ND-930	T-04: Discharge Canal South side of bridge	750	500-930	NA	NA	
		²³² Th	7	7	7	ND	NA	NA	NA	NA	NA	NA	
		¹⁰⁶ Ru	7	7	7	ND	NA	NA	NA	NA	NA	NA	
		⁹⁰ Sr	7	7	7	ND	NA	NA	NA	NA	NA	NA	
		⁹⁰ Sr	7	7	7	ND	NA	NA	NA	NA	NA	NA	



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4.2.B Fish-Herbivore (c)	pCi/kg	⁴⁰ K	6	1	1	3500	NA	NA	NA	NA	NA	NA	
		²²⁶ Ra	6	1	1	ND	NA	NA	NA	NA	NA	NA	
		²³² Th	6	1	1	ND	NA	NA	NA	NA	NA	NA	
		¹⁰⁶ Ru	6	1	1	ND	NA	NA	NA	NA	NA	NA	
		⁸⁹ Sr	6	1	1	ND	NA	NA	NA	NA	NA	NA	
		⁹⁰ Sr	6	1	1	17	NA	NA	NA	NA	NA	NA	
4.3.A Other - Turtle Grass		⁴⁰ K	6	6	6	ND	NA	NA	NA	NA	NA	NA	
		²³² Th	6	6	6	ND	NA	NA	NA	NA	NA	NA	
		¹⁰⁶ Ru	6	6	6	ND	NA	NA	NA	NA	NA	NA	
		¹⁴⁴ Ce	6	6	6	ND	NA	NA	NA	NA	NA	NA	
		⁶⁰ Co	6	6	6	ND	NA	NA	NA	NA	NA	NA	
		⁸⁹ Sr	6	6	6	ND	NA	NA	NA	NA	NA	NA	
		⁹⁰ Sr	6	6	6	ND	NA	NA	NA	NA	NA		



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			Sites	Samples	Analyses	Mean	Range	Sample Location Distance & Direction	Mean	Range	Mean	Range	
4.3.B Other - Sponge	pCi/kg	⁴⁰ K	6	6	6	567	ND-900	T-94: Pumpkin Key	900	NA	NA	NA	
		²³² Th	6	6	6	ND	NA	NA	NA	NA	NA	NA	
		¹⁴⁴ Ce	6	6	6	334	ND-2000	T-59: Elliott Key	2000	NA	NA	NA	
		⁶⁰ Co	6	6	6	12	ND-70	T-59: Elliott Key	70	NA	NA	NA	
5.0 Terrestrial Biota													
5.2.1 Small Animal (d)	pCi/kg	⁴⁰ K	1	1	1	2700	NA	NA	NA	NA	NA	NA	
		²³² Th	1	1	1	ND	NA	NA	NA	NA	NA	NA	
		¹³⁷ Cs	1	1	1	ND	NA	NA	NA	NA	NA	NA	
5.2.2 Food Crops (g)	pCi/kg	⁴⁰ K	3	3	3	4200	2400-5500	T-55: Silver Palm Dr. 0/10 mi. E from Allapattah Road	5500	NA	NA	NA	
		²³² Th	3	3	3	ND	NA	NA	NA	NA	NA	NA	
		¹³⁷ Cs	3	3	3	ND	NA	NA	NA	NA	NA	NA	
		⁸⁹ Sr	3	3	3	ND	NA	NA	NA	NA	NA	NA	
		⁹⁰ Sr	3	3	3	ND	NA	NA	NA	NA	NA	NA	



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5.2.3 Mangrove Leaves	pCi/kg	40K	7	7	7	2900	1400-4300	T-58: Onsite Entrance Road, WNW, 1 mile	1300	NA	NA	NA	
		232Th	7	7	7	ND	NA	NA	NA	NA	NA	NA	
		137Cs	7	7	7	ND	NA	NA	NA	NA	NA	NA	
		89Sr	7	7	7	ND	NA	NA	NA	NA	NA	NA	
		90Sr	7	7	7	1.6	NA	T-58: Onsite Entrance Road, WNW, 1 mile	8	NA	NA	NA	
5.3 Soil	pCi/kg	226Ra	7	7	7	1300	ND-2600	T-57: Dolan's Farm, WNW, 4.5 miles	2600	NA	NA	NA	
		232Th	7	7	7	ND	NA	NA	NA	NA	NA	NA	
		137Cs	7	7	7	230	ND-530	T-56: Princeton Substation (S.W. 240 St.) WNW, 0.5 miles	530	NA	NA	NA	
		89Sr	7	7	7	ND	NA	NA	NA	NA	NA	NA	
		90Sr	7	7	7	ND	NA	NA	NA	NA	NA	NA	
Notes:													
a) T-64; Natoma Substation, Miami	EHE, 30 miles												
b) ND= NON Detectable	NA= NON	Applicable											
c) Mullet													
d) Opossum													
e) Snapper													
f) Blue Crab													
g) Malanga													
h) Shark													

