

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



### Table I

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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	
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 $\beta$ -DS	2	13	13	118	3.0-370	T-75: Fl. City Canal NNW, 1.5 miles	216	4.5-370	NA	NA	
		Gross $\beta$ -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 $\beta$ -DS	3	6	6	10	4.4-14	T-57: Dolan's Farm, WNW, 4.5 miles	13.5	13-14	NA	NA	
		Gross $\beta$ -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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			Sites	Samples	Analyses	Mean	Range	Sample Location Distance & Direction	Mean	Range	Mean	Range	
3.0 Bottom Sediments													
3.1 Cooling Canal	pCi/kg	<sup>58</sup> Co	2	4	4	95	ND-380	T-85: Discharge Canal, at W. Side of 90° bend	380	NA	NA	NA	
		<sup>60</sup> Co	2	4	4	508	200-1200	T-85: Discharge Canal, at W. Side of 90° bend	730	260-1200	NA	NA	
		<sup>226</sup> Ra	2	4	4	2275	1900-2700	T-84: Discharge Canal, South side of bridge	2300	1900-2700	NA	NA	
		<sup>232</sup> Th	2	4	4	ND	NA	NA	NA	NA	NA	NA	
		<sup>40</sup> K	2	4	4	ND	NA	NA	NA	NA	NA	NA	
		<sup>89</sup> Sr	2	4	4	ND	NA	NA	NA	NA	NA	NA	
		<sup>90</sup> Sr	2	4	4	ND	NA	NA	NA	NA	NA	NA	
3.2 Estuarine	pCi/kg	<sup>226</sup> Ra	7	8	8	752	250-1000	T-81: Card South, New discharge canal	1500	1200-1800	NA	NA	
		<sup>232</sup> Th	7	8	8	ND	NA	NA	NA	NA	NA	NA	
		<sup>40</sup> K	7	8	8	ND	NA	NA	NA	NA	NA	NA	
		<sup>60</sup> Co	7	8	8	ND	NA	NA	NA	NA	NA	NA	
		<sup>89</sup> Sr	7	8	8	ND	NA	NA	NA	NA	NA	NA	
		<sup>90</sup> Sr	7	8	8	ND	NA	NA	NA	NA	NA	NA	





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			Sites	Samples	Analyses	Mean	Range	Sample Location Distance & Direction	Mean	Range	Mean	Range	
4.0 Aquatic Biota													
4.1 Crustacea (f)	pCi/kg	<sup>40</sup> K	6	1	1	1300	NA	NA	NA	NA	NA	NA	
		<sup>226</sup> Ra	6	1	1	450	NA	NA	NA	NA	NA	NA	
		<sup>232</sup> Th	6	1	1	ND	NA	NA	NA	NA	NA	NA	
		<sup>106</sup> Ru	6	1	1	ND	NA	NA	NA	NA	NA	NA	
		<sup>89</sup> Sr	6	1	1	ND	NA	NA	NA	NA	NA	NA	
		<sup>90</sup> Sr	6	1	1	ND	NA	NA	NA	NA	NA	NA	
4.2.A Fish-Carnivore (a,h)	pCi/kg	<sup>40</sup> K	7	7	7	3500	3100-4200	T-81: Card Sound, New discharge canal	4200	NA	NA	NA	
		<sup>226</sup> Ra	7	7	7	204	ND-930	T-84: Discharge Canal South side of bridge	750	500-930	NA	NA	
		<sup>232</sup> Th	7	7	7	ND	NA	NA	NA	NA	NA	NA	
		<sup>106</sup> Ru	7	7	7	ND	NA	NA	NA	NA	NA	NA	
		<sup>90</sup> Sr	7	7	7	ND	NA	NA	NA	NA	NA	NA	
		<sup>90</sup> Sr	7	7	7	ND	NA	NA	NA	NA	NA	NA	



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			Sites	Samples	Analyses	Mean	Range	Sample Location Distance & Direction	Mean	Range	Mean	Range	
4.2.B Fish-Herbivore (c)	pCi/kg	<sup>40</sup> K	6	1	1	3500	NA	NA	NA	NA	NA	NA	
		<sup>226</sup> Ra	6	1	1	ND	NA	NA	NA	NA	NA	NA	
		<sup>232</sup> Th	6	1	1	ND	NA	NA	NA	NA	NA	NA	
		<sup>106</sup> Ru	6	1	1	ND	NA	NA	NA	NA	NA	NA	
		<sup>89</sup> Sr	6	1	1	ND	NA	NA	NA	NA	NA	NA	
		<sup>90</sup> Sr	6	1	1	17	NA	NA	NA	NA	NA	NA	
4.3.A Other - Turtle Grass		<sup>40</sup> K	6	6	6	ND	NA	NA	NA	NA	NA	NA	
		<sup>232</sup> Th	6	6	6	ND	NA	NA	NA	NA	NA	NA	
		<sup>106</sup> Ru	6	6	6	ND	NA	NA	NA	NA	NA	NA	
		<sup>144</sup> Ce	6	6	6	ND	NA	NA	NA	NA	NA	NA	
		<sup>60</sup> Co	6	6	6	ND	NA	NA	NA	NA	NA	NA	
		<sup>89</sup> Sr	6	6	6	ND	NA	NA	NA	NA	NA	NA	
		<sup>90</sup> Sr	6	6	6	ND	NA	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	<sup>40</sup> K	6	6	6	567	ND-900	T-94: Pumpkin Key	900	NA	NA	NA			
		<sup>232</sup> Th	6	6	6	ND	NA	NA	NA	NA	NA	NA			
		<sup>144</sup> Co	6	6	6	334	ND-2000	T-59: Elliott Key	2000	NA	NA	NA			
		<sup>60</sup> 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	<sup>40</sup> K	1	1	1	2700	NA	NA	NA	NA	NA	NA			
		<sup>232</sup> Th	1	1	1	ND	NA	NA	NA	NA	NA	NA			
		<sup>137</sup> Cs	1	1	1	ND	NA	NA	NA	NA	NA	NA			
5.2.2 Food Crops (g)	pCi/kg	<sup>40</sup> K	3	3	3	4200	2400-5500	T-55: Silver Palm Dr. 0/10 mi. E from Allapattah Road	5500	NA	NA	NA			
		<sup>232</sup> Th	3	3	3	ND	NA	NA	NA	NA	NA	NA			
		<sup>137</sup> Cs	3	3	3	ND	NA	NA	NA	NA	NA	NA			
		<sup>89</sup> Sr	3	3	3	ND	NA	NA	NA	NA	NA	NA			
		<sup>90</sup> Sr	3	3	3	ND	NA	NA	NA	NA	NA	NA			



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			Sites	Samples	Analyses	Mean	Range	Sample Location Distance & Direction	Mean	Range	Mean	Range	
5.2.3 Mangrove Leaves	pCi/kg	<sup>40</sup> K	7	7	7	2900	1400-4300	T-58: Onsite Entrance Road, WNW, 1 mile	1300	NA	NA	NA	
		<sup>232</sup> Th	7	7	7	ND	NA	NA	NA	NA	NA	NA	
		<sup>137</sup> Cs	7	7	7	ND	NA	NA	NA	NA	NA	NA	
		<sup>89</sup> Sr	7	7	7	ND	NA	NA	NA	NA	NA	NA	
		<sup>90</sup> Sr	7	7	7	1.6	NA	T-58: Onsite Entrance Road, WNW, 1 mile	8	NA	NA	NA	
5.3 Soil	pCi/kg	<sup>226</sup> Ra	7	7	7	1300	ND-2600	T-57: Dolan's Farm, WNW, 4.5 miles	2600	NA	NA	NA	
		<sup>232</sup> Th	7	7	7	ND	NA	NA	NA	NA	NA	NA	
		<sup>137</sup> Cs	7	7	7	230	ND-530	T-56: Princeton Substation (S.W. 240 St.) WNW, 0.5 miles	530	NA	NA	NA	
		<sup>89</sup> Sr	7	7	7	ND	NA	NA	NA	NA	NA	NA	
		<sup>90</sup> Sr	7	7	7	ND	NA	NA	NA	NA	NA	NA	
Notes:													
a) T-64, Natoma Substation, Miami b) ND= NON Detectable c) Mullet d) Opossum e) Snapper f) Blue Crab g) Malanga h) Shark			E21E, 30 miles NA= NON Applicable										

