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ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM SUMMARY
 Docket Nos. 50-206, 50-361, 50-362
 Reporting period: January 1, 1979 to December 31, 1979

Medium or Pathway Sampled (Unit of Measurement)	Type and Total Number of Analyses Performed	Lower Limit of Detection (LLD)	All Indicator Locations Mean(f) Range	Location with Highest Annual Mean Name, Distance and Direction	Annual Mean Mean(f) Range	Control Locations Mean(f) Range	Number of Nonroutine Reported Measurements
Table 1A Direct Radiation Quarterly Composite (millirem)							
Gamma Exposure	276	5.0000	34.270(63/268) (23.600-87.900)	Transit Dose	87.900(1/ 4) (87.900-87.900)	<LLD (0/ 8)	0
Table 1B Direct Radiation Annual Composite (millirem)							
Gamma Exposure	69	5.0000	87.071(14/ 67) (68.000-112.00)	Huntington Beach Generating Station 37 mi. NW	112.00(1/ 1) (112.00-112.00)	<LLD (0/ 2)	0
Table 2 Airborne Weekly Composite (pCi/cu.m)							
Gross Beta	530	0.0011	0.0286(154/477) (0.010- 0.090)	Units 2/3 Switchyard 0.13 mi. NNE	0.0357(51/ 53) (0.021- 0.090)	0.0285(46/ 53) (0.005- 0.066)	0
Table 3 Airborne Weekly Composite (pCi/cu.m)							
I-131	530	0.0430	<LLD (0/477)	ALL <LLD	-----	<LLD (0/ 53)	0

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Table 4A							
Airborne							
Quarterly Composite							
(pCi/cu.m)							
Be-7	20	0.0540	0.0912(15/ 16) (0.050- 0.170)	NE Site Boundary Visitors Center 0.2 mi. NNE	0.1075(4/ 4) (0.090- 0.140)	0.0900(4/ 4) (0.070- 0.100)	0
Co-58	20	0.0010	<LLD (0/ 16)	ALL <LLD	-----	<LLD (0/ 4)	0
Co-60	20	0.0010	<LLD (0/ 16)	ALL <LLD	-----	<LLD (0/ 4)	0
Cs-134	20	0.0010	<LLD (0/ 16)	ALL <LLD	-----	<LLD (0/ 4)	0
Cs-137	20	0.0010	0.0019(7/ 16) (0.001- 0.003)	NE Site Boundary Visitors Center 0.2 mi. NNE	0.0025(2/ 4) (0.002- 0.003)	0.0019(1/ 4) (0.002- 0.002)	0

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Table 4A Airborne Quarterly Composite (pCi/cu.m)								
	Zr(Nb)-95	20	0.0010	<LLD (0/ 16)	ALL <LLD	-----	<LLD (0/ 4)	0
Table 4C Airborne Quarterly Composite (pCi/cu.m)								
	Gross Alpha	44	0.0003	0.0017(15/ 40) (0.000- 0.004)	NE Site Boundary Visitors Center 0.2 mi. NNE	0.0020(4/ 4) (0.000- 0.004)	0.0014(4/ 4) (0.000- 0.002)	0
	Sr-90	44	0.0030	<LLD (0/ 40)	ALL <LLD	-----	<LLD (0/ 4)	0
Table 5 Ocean Water Monthly Composite (pCi/l)								
	Ba(La)-140	24	28.600	<LLD (0/ 18)	ALL <LLD	-----	<LLD (0/ 6)	0
	Co-58	24	4.9000	<LLD (0/ 18)	ALL <LLD	-----	<LLD (0/ 6)	0
	Co-60	24	5.3000	<LLD (0/ 18)	ALL <LLD	-----	<LLD (0/ 6)	0
	Cs-134	24	4.6000	<LLD (0/ 18)	ALL <LLD	-----	<LLD (0/ 6)	0
	Cs-137	24	3.7000	<LLD (0/ 18)	ALL <LLD	-----	<LLD (0/ 6)	0
Table 5 Ocean Water Monthly Composite (pCi/l)								
	Fe-59	24	8.8000	<LLD (0/ 18)	ALL <LLD	-----	<LLD (0/ 6)	0
	I-131	24	25.500	<LLD (0/ 18)	ALL <LLD	-----	<LLD (0/ 6)	0
	Mn-54	24	3.7000	<LLD (0/ 18)	ALL <LLD	-----	<LLD (0/ 6)	0
Table 5 Ocean Water Monthly Composite (pCi/l)								
	Zn-65	24	7.6000	<LLD (0/ 18)	ALL <LLD	-----	<LLD (0/ 6)	0
	Zr(Nb)-95	24	7.3000	<LLD (0/ 18)	ALL <LLD	-----	<LLD (0/ 6)	0

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Table 6 Ocean Water Bi-Monthly Composite (pCi/L)								
	Gross Beta	24	105.00	1050.0(18/ 18) (670.00-1350.0)	Newport Beach 30 mi. NW	1106.7(6/ 6) (1000.0-1240.0)	1106.7(6/ 6) (1000.0-1240.0)	0
Table 7 Ocean Water Quarterly Composite (pCi/l)								
	Tritium	8	102.00	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0
Table 9b Drinking Water Monthly Composite (pCi/l)								
	Gross Alpha	36	*	0.3050(6/ 36) (0.200- 0.400)	San Clemente Golf Course Well 3.5 mi. NNW	0.3060(5/ 12) (0.200- 0.400)	<LLD (0/ 0)	0
	Gross Beta	36	*	1.1429(35/ 36) (0.400- 2.600)	Tri-Cities Munic. Water Dist. Res. 8.7 mi. NW	1.5364(11/ 12) (0.600- 2.600)	<LLD (0/ 0)	0
Table 9c Drinking Water Monthly Composite (pCi/l)								
	Gross Alpha	36	*	2.6667(3/ 36) (2.000- 4.000)	San Clemente Golf Course Well 3.5 mi. NNW	4.0000(1/ 12) (4.000- 4.000)	<LLD (0/ 0)	0
	Gross Beta	36	*	10.369(35/ 36) (4.400-20.000)	Tri-Cities Munic. Water Dist. Res. 8.7 mi. NW	13.727(11/ 12) (9.000-17.000)	<LLD (0/ 0)	0

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Table 9d							
Drinking Water							
Quarterly Composite (pCi/l)							
Gross Alpha	12	*	0.3667(3/ 12) (0.200- 0.500)	San Clemente Golf Course Well 3.5 mi. NNW	0.3667(3/ 4) (0.200- 0.500)	<LLD (0/ 0)	0
Gross Beta	12	*	1.2750(12/ 12) (0.300- 2.200)	Tri-Cities Munic. Water Dist. Res. 8.7 mi. NW	1.7500(4/ 4) (1.200- 2.200)	<LLD (0/ 0)	0
Table 9e							
Drinking Water							
Quarterly Composite (pCi/l)							
Ba(La)-140	12	*	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
Co-58	12	*	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
Co-60	12	*	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
Cs-134	12	*	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
Cs-137	12	*	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
Table 9e							
Drinking Water							
Quarterly Composite (pCi/l)							
Fe-59	12	*	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
Gross Alpha	12	*	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
Gross Beta	12	*	10.250(12/ 12) (6.000-15.000)	Tri-Cities Munic. Water Dist. Res. 8.7 mi. NW	13.750(4/ 4) (12.000-15.000)	<LLD (0/ 0)	0
H-3	12	*	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
I-131	12	*	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
Mn-54	12	*	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
Zn-65	12	*	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0

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Table 9e Drinking Water Quarterly Composite (pCi/l)								
	Zr(Nb)-95	12	*	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
Table 10 Shoreline Sediment Semi-Annual Composite (pCi/g)								
	Co-58	8	0.0090	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0
	Co-60	8	0.0090	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0
	Cs-134	8	0.0080	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0
	Cs-137	8	0.0070	0.0220(2/ 6) (0.022- 0.022)	Newport Beach (North End) 30 mi. NW	0.0320(1/ 2) (0.032- 0.032)	0.0320(1/ 2) (0.032- 0.032)	0
	Fe-59	8	0.0170	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0
Table 10 Shoreline Sediment Semi-Annual Composite (pCi/g)								
	I-131	8	0.0690	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0
	Mn-54	8	0.0070	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0
	Ra-226	8	0.0130	0.3917(6/ 6) (0.220- 0.500)	San Onofre Surfing Beach 0.9 mi. NW	0.4850(2/ 2) (0.470- 0.500)	0.3550(2/ 2) (0.300- 0.410)	0
	Zn-65	8	0.0140	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0
Table 10 Shoreline Sediment Semi-Annual Composite (pCi/g)								
	Zr(Nb)-95	8	0.0140	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0

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Table 11 Ocean Bottom Sediments Semi-Annual Composite (pCi/g)								
	Co-58	10	0.0080	0.1650(3/ 8) (0.015- 0.280)	Unit 1 Outfall 0.6 mi. W	0.2800(1/ 2) (0.280- 0.280)	<LLD (0/ 2)	0
	Co-60	10	0.0080	0.0410(2/ 8) (0.032- 0.050)	Unit 1 Outfall 0.6 mi. W	0.0500(1/ 2) (0.050- 0.050)	<LLD (0/ 2)	0
	Cs-134	10	0.0070	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 2)	0
	Cs-137	10	0.0060	0.0335(4/ 8) (0.014- 0.050)	Unit 1 Outfall 0.8 mi. SSW	0.0400(1/ 2) (0.040- 0.040)	<LLD (0/ 2)	0
	Fe-59	10	0.0150	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 2)	0
Table 11 Ocean Bottom Sediments Semi-Annual Composite (pCi/g)								
	I-131	10	0.0170	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 2)	0
	Mn-54	10	0.0060	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 2)	0
	Ra-226	10	0.0120	0.7062(8/ 8) (0.250- 1.350)	Unit 1 Outfall 0.8 mi. SSW	0.8600(2/ 2) (0.510- 1.210)	0.3450(2/ 2) (0.090- 0.600)	0
	Zn-65	10	0.0120	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 2)	0
Table 11 Ocean Bottom Sediments Semi-Annual Composite (pCi/g)								
	Zr(Nb)-95	10	0.0120	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 2)	0

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Table 12a							
Non-Migratory Marine							
Quarterly Composite							
(pCi/g)							
			(0.002- 0.500)	Unit 1 Outfall	(0.002- 0.500)		
			(0.006- 0.017)	0.9 mi. WSW			
			(0.006- 0.017)	Unit 1 Outfall	(0.006- 0.017)		
			(0.006-12.400)	0.9 mi. WSW			
Co-58	48	*	1.0881(15/ 48)	Unit 1 Outfall	1.7019(9/ 16)	<LLD (0/ 0)	0
			(0.006-12.400)	0.9 mi. WSW	(0.011-12.400)		
Co-60	48	*	0.1413(10/ 48)	Unit 1 Outfall	0.2588(5/ 16)	<LLD (0/ 0)	0
			(0.016- 0.800)	0.9 mi. WSW	(0.028- 0.800)		
Cs-134	48	*	<LLD (0/ 48)	ALL <LLD	-----	<LLD (0/ 0)	0
Cs-137	48	*	0.0102(27/ 48)	Units 2/3 Outfall	0.0124(9/ 16)	<LLD (0/ 0)	0
			(0.004- 0.018)	1.5 mi. SSW	(0.004- 0.018)		
Fe-59	48	*	<LLD (0/ 48)	ALL <LLD	-----	<LLD (0/ 0)	0

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Table 12a Non-Migratory Marine Quarterly Composite (pCi/g)							
			(0.650-46.000)	Unit 1 Outfall 0.9 mi. WSW	(2.800-29.000)		
	I-131	48	* <LLD (0/ 48)	ALL <LLD	-----	<LLD (0/ 0)	0
	Mn-54	48	* <LLD (0/ 48)	ALL <LLD	-----	<LLD (0/ 0)	0
			(0.009- 0.012)	Newport Beach 18.2 mi. NW	(0.012- 0.012)		
Table 12a Non-Migratory Marine Quarterly Composite (pCi/g)							
	Sr-90	48	* <LLD (0/ 48)	ALL <LLD	-----	<LLD (0/ 0)	0
	Zn-65	48	* <LLD (0/ 48)	ALL <LLD	-----	<LLD (0/ 0)	0
	Zr(Nb)-95	48	* <LLD (0/ 48)	ALL <LLD	-----	<LLD (0/ 0)	0
Table 12b Non-Migratory Marine Quarterly Composite (pCi/g)							
			(0.044- 0.122)	Unit 1 Outfall 0.9 mi. WSW	(0.060- 0.122)		
			(0.022- 0.022)	Unit 1 Outfall 0.9 mi. WSW	(0.022- 0.022)		
	Co-58	41	* 0.1015(2/ 41) (0.093- 0.110)	Units 2/3 Outfall 1.5 mi. SSW	0.1100(1/ 14) (0.110- 0.110)	<LLD (0/ 0)	0
	Co-60	41	* 0.0200(2/ 41) (0.018- 0.022)	Units 2/3 Outfall 1.5 mi. SSW	0.0220(1/ 14) (0.022- 0.022)	<LLD (0/ 0)	0
	Cs-134	41	* <LLD (0/ 41)	ALL <LLD	-----	<LLD (0/ 0)	0
	Cs-137	41	* <LLD (0/ 41)	ALL <LLD	-----	<LLD (0/ 0)	0
	Fe-59	41	* <LLD (0/ 41)	ALL <LLD	-----	<LLD (0/ 0)	0

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Table 12b Non-Migratory Marine Quarterly Composite (pCi/g)								
	I-131	41	*	<LLD (0/ 41)	ALL <LLD	-----	<LLD (0/ 0)	0
	Mn-54	41	*	<LLD (0/ 41)	ALL <LLD	-----	<LLD (0/ 0)	0
	Sr-90	41	*	<LLD (0/ 41)	ALL <LLD	-----	<LLD (0/ 0)	0
Table 12b Non-Migratory Marine Quarterly Composite (pCi/g)								
	Zn-65	41	*	<LLD (0/ 41)	ALL <LLD	-----	<LLD (0/ 0)	0
	Zr(Nb)-95	41	*	<LLD (0/ 41)	ALL <LLD	-----	<LLD (0/ 0)	0
Table 13a Local Crops Semi-Annual Composite (pCi/g)								
	Co-58	9	*	<LLD (0/ 9)	ALL <LLD	-----	<LLD (0/ 0)	0
	Co-60	9	*	<LLD (0/ 9)	ALL <LLD	-----	<LLD (0/ 0)	0
	Cs-134	9	*	<LLD (0/ 9)	ALL <LLD	-----	<LLD (0/ 0)	0
	Cs-137	9	*	<LLD (0/ 9)	ALL <LLD	-----	<LLD (0/ 0)	0
	I-131	9	*	<LLD (0/ 9)	ALL <LLD	-----	<LLD (0/ 0)	0
Table 13a Local Crops Semi-Annual Composite (pCi/g)								
	Zr(Nb)-95	9	*	<LLD (0/ 9)	ALL <LLD	-----	<LLD (0/ 0)	0

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Table 13B LOCAL CROPS Semi-Annual Composite (pCi/g)							
			(16.000-16.000)	San Mateo Canyon 2.6 mi. NW	(16.000-16.000)		
cabbage	Sr-90	1 0.0005	<LLD (0/ 1) (140.00-140.00)	ALL <LLD San Mateo Canyon 2.6 mi. NW	----- (140.00-140.00)	<LLD (0/ 0)	0
cucumber	Sr-90	2 0.0005	<LLD (0/ 2) (125.00-125.00)	ALL <LLD San Mateo Canyon 2.6 mi. NW	----- (125.00-125.00)	<LLD (0/ 0)	0
green beans	Sr-90	1 0.0005	<LLD (0/ 1)	ALL <LLD	-----	<LLD (0/ 0)	0

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Table 13B LOCAL CROPS Semi-Annual Composite (pCi/g)							
squash	Sr-90	2	0.0005	<LLD (0/ 0)	SE of Oceanside 22 mi. SE (18.000-77.000)	(18.000-77.000)	0
tomato	H-3 Bound	3	0.2540	190.00(1/ 2) (190.00-190.00)	SE of Oceanside 22 mi. SE (0.050- 0.050)	0.0500(1/ 2) (0.050- 0.050)	0
tomato	Sr-90	3	0.0005	<LLD (0/ 2)	San Mateo Canyon 2.6 mi. NW ALL <LLD	190.00(1/ 2) (190.00-190.00) (17.000-17.000)	0
Table 14 Soil Samples Annual Composite (pCi/g)							
	Co-58	5	0.0100	<LLD (0/ 4)	ALL <LLD	<LLD (0/ 1)	0
	Co-60	5	0.0110	<LLD (0/ 4)	ALL <LLD	<LLD (0/ 1)	0
	Cs-134	5	0.0090	<LLD (0/ 4)	ALL <LLD	<LLD (0/ 1)	0
	Cs-137	5	0.0070	0.1300(2/ 4) (0.060- 0.200)	E. Site Boundary 0.2 mi. NNW (0.200- 0.200)	0.2000(1/ 1) (0.200- 0.200)	0
	I-131	5	0.0210	<LLD (0/ 4)	ALL <LLD	<LLD (0/ 1)	0
Table 14 Soil Samples Annual Composite (pCi/g)							
	Sr-89	5	0.0070	<LLD (0/ 4)	ALL <LLD	<LLD (0/ 1)	0
	Sr-90	5	0.0070	0.0567(3/ 4) (0.040- 0.080)	E. Site Boundary 0.2 mi. NNW (0.080- 0.080)	0.0800(1/ 1) (0.080- 0.080)	0
	Zr(Nb)-95	5	0.0150	<LLD (0/ 4)	ALL <LLD	<LLD (0/ 1)	0

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Table 15								
Kelp								
Semi-Annual Composite (pCi/g)								
macrocystis p.	Co-58	8	0.0090	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0
macrocystis p.	Co-60	8	0.0100	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0
macrocystis p.	Cs-134	8	0.0080	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0
macrocystis p.	Cs-137	8	0.0060	0.0058(5/ 6) (0.004- 0.009)	San Onofre Kelp Bed 1.5 mi. SSW	0.0065(2/ 2) (0.004- 0.009)	<LLD (0/ 2)	0
macrocystis p.	Fe-59	8	0.0180	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0
Table 15								
Kelp								
Semi-Annual Composite (pCi/g)								
macrocystis p.	H-3 Bound	8	0.4660	1.6750(4/ 6) (1.200- 2.400)	Barn Kelp Bed 6.3 mi. SSE	2.4000(1/ 2) (2.400- 2.400)	1.7000(1/ 2) (1.700- 1.700)	0
macrocystis p.	I-131	8	0.0200	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0
macrocystis p.	Mn-54	8	0.0070	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0
Table 15								
Kelp								
Semi-Annual Composite (pCi/g)								
macrocystis p.	Zn-65	8	0.0140	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0
macrocystis p.	Zr(Nb)-95	8	0.0140	<LLD (0/ 6)	ALL <LLD	-----	<LLD (0/ 2)	0