

08JUL91

ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM SUMMARY
 Docket Nos. 50-206, 50-361, 50-362
 Reporting period: January 1, 1987 to December 31, 1987

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	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	19.217(228/268) (8.900-91.300)	SE Site Boundary 0.40 mi. SE	50.375(4/ 4) (26.600-91.300)	18.550(8/ 8) (16.700-21.000)	0
Table 1B Direct Radiation Annual Composite (millirem)							
Gamma Exposure	69	5.0000	74.886(57/ 67) (29.900-200.10)	SE Site Boundary 0.40 mi. SE	200.10(1/ 1) (200.10-200.10)	72.600(2/ 2) (67.600-77.600)	0
Table 2 Airborne Weekly Composite (pCi/cu.m)							
Gross Beta	520	0.0011	0.0215(416/468) (0.010- 0.062)	Mesa E.O.F. 0.7 mi. NNW	0.0246(52/ 52) (0.010- 0.062)	0.0188(52/ 52) (0.009- 0.056)	0
Table 3 Airborne Weekly Composite (pCi/cu.m)							
I-131	520	0.0430	0.1557(7/468) (0.060- 0.340)	Units 2/3 Switchyard 0.13 mi. NNE	0.1650(6/ 52) (0.060- 0.340)	<LLD (0/ 52)	0

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Table 4A Airborne Quarterly Composite (pCi/cu.m)								
	Be-7	36	0.0540	0.1093(32/ 32) (0.074- 0.157)	Mesa E.O.F. 0.7 mi. NNW	0.1270(4/ 4) (0.106- 0.157)	0.0920(4/ 4) (0.075- 0.107)	0
	Co-58	36	0.0010	<LLD (0/ 32)	ALL <LLD	-----	<LLD (0/ 4)	0
	Co-60	36	0.0010	<LLD (0/ 32)	ALL <LLD	-----	<LLD (0/ 4)	0
	Cs-134	36	0.0010	<LLD (0/ 32)	ALL <LLD	-----	<LLD (0/ 4)	0
	Cs-137	36	0.0010	<LLD (0/ 32)	ALL <LLD	-----	<LLD (0/ 4)	0
Table 4A Airborne Quarterly Composite (pCi/cu.m)								
	Zr(Nb)-95	36	0.0010	<LLD (0/ 32)	ALL <LLD	-----	<LLD (0/ 4)	0
Table 4C Airborne Quarterly Composite (pCi/cu.m)								
	Gross Alpha	44	0.0003	<LLD (0/ 40)	ALL <LLD	-----	<LLD (0/ 4)	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	48	28.600	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 12)	0
	Co-58	48	4.9000	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 12)	0
	Co-60	48	5.3000	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 12)	0
	Cs-134	48	4.6000	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 12)	0
	Cs-137	48	3.7000	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 12)	0

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Table 5 Ocean Water Monthly Composite (pCi/l)								
	Fe-59	48	8.8000	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 12)	0
	I-131	48	25.500	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 12)	0
	K-40	48	42.200	318.06(36/ 36)	Station Discharge	319.17(12/ 12)	316.67(12/ 12)	0
				(290.00-350.00)	Outfall - Unit 1	(290.00-340.00)	(300.00-350.00)	
					0.5 mi. SSW			
	Mn-54	48	3.7000	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 12)	0
Table 5 Ocean Water Monthly Composite (pCi/l)								
	Zn-65	48	7.6000	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 12)	0
	Zr(Nb)-95	48	7.3000	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 12)	0
Table 6 Ocean Water Bi-Monthly Composite (pCi/L)								
	Gross Beta	24	105.00	788.89(18/ 18)	Station Discharge	833.33(6/ 6)	750.00(6/ 6)	0
				(700.00-1000.0)	Outfall - Unit 1	(800.00-1000.0)	(700.00-800.00)	
					0.5 mi. SSW			
Table 7 Ocean Water Quarterly Composite (pCi/l)								
	Tritium	16	102.00	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 4)	0
Table 9a Drinking Water Monthly Composite (pCi/l)								
	Ba(La)-140	36		<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 0)	0
	Co-58	36		<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 0)	0
	Co-60	36		<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 0)	0
	Cs-134	36		<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 0)	0
	Cs-137	36		<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 0)	0

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Table 9a							
Drinking Water							
Monthly Composite (pCi/l)							
	Fe-59	36	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 0)	0
	H-3	36	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 0)	0
	I-131	36	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 0)	0
	Mn-54	36	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 0)	0
	Zn-65	36	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 0)	0
	Zr(Nb)-95	36	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 0)	0
Table 9b							
Drinking Water							
Monthly Composite (pCi/l)							
	Gross Alpha	36	0.8375(8/ 36) (0.300- 1.400)	San Clemente Golf Course Well 3.5 mi. NNW	0.8375(8/ 12) (0.300- 1.400)	<LLD (0/ 0)	0
	Gross Beta	36	1.7296(27/ 36) (0.200-10.000)	San Clemente Golf Course Well 3.5 mi. NNW	3.6273(11/ 12) (0.800-10.000)	<LLD (0/ 0)	0
Table 9c							
Drinking Water							
Monthly Composite (pCi/l)							
	Gross Alpha	36	<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 0)	0
	Gross Beta	36	10.611(36/ 36) (4.000-21.000)	San Clemente Golf Course Well 3.5 mi. NNW	13.250(12/ 12) (10.000-21.000)	<LLD (0/ 0)	0
Table 9d							
Drinking Water							
Quarterly Composite (pCi/l)							
	Gross Alpha	12	0.6250(4/ 12) (0.300- 1.400)	San Clemente Golf Course Well 3.5 mi. NNW	0.6250(4/ 4) (0.300- 1.400)	<LLD (0/ 0)	0
	Gross Beta	12	1.5625(8/ 12) (0.200- 6.000)	San Clemente Golf Course Well 3.5 mi. NNW	2.7750(4/ 4) (1.200- 6.000)	<LLD (0/ 0)	0

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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	12.167(12/ 12)	San Clemente Golf Course Well 3.5 mi. NNW	15.250(4/ 4) (12.000-21.000)	<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	
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	10	0.0090	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 2)	0
	Co-60	10	0.0090	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 2)	0
	Cs-134	10	0.0080	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 2)	0
	Cs-137	10	0.0070	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 2)	0
	Fe-59	10	0.0170	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 2)	0

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Table 10 Shoreline Sediment Semi-Annual Composite (pCi/g)							
I-131	10	0.0690	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 2)	0
K-40	10	0.0740	12.963(8/ 8) (11.800-14.900)	Newport Beach (North End) 30 mi. NW	14.900(2/ 2) (12.400-17.400)	14.900(2/ 2) (12.400-17.400)	0
Mn-54	10	0.0070	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 2)	0
Ra-226	10	0.0130	0.2287(8/ 8) (0.140- 0.330)	Newport Beach (North End) 30 mi. NW	0.3950(2/ 2) (0.200- 0.590)	0.3950(2/ 2) (0.200- 0.590)	0
Th-228	10	0.0090	0.2600(8/ 8) (0.120- 0.460)	Newport Beach (North End) 30 mi. NW	1.0050(2/ 2) (0.510- 1.500)	1.0050(2/ 2) (0.510- 1.500)	0
Zn-65	10	0.0140	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 2)	0
Table 10 Shoreline Sediment Semi-Annual Composite (pCi/g)							
Zr(Nb)-95	10	0.0140	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 2)	0
Table 11 Ocean Bottom Sediments Semi-Annual Composite (pCi/g)							
Co-58	10	0.0080	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 2)	0
Co-60	10	0.0080	0.0500(1/ 8) (0.050- 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	0.0800(1/ 8) (0.080- 0.080)	Unit 3 Outfall 1.2 mi. SSW	0.0800(1/ 2) (0.080- 0.080)	<LLD (0/ 2)	0
Fe-59	10	0.0150	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 2)	0

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Table 11							
Ocean Bottom Sediments Semi-Annual Composite (pCi/g)							
I-131	10	0.0170	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 2)	0
K-40	10	0.0660	10.350(8/ 8) (8.400-12.500)	Newport Beach 18.2 mi. NW	14.250(2/ 2) (14.000-14.500)	14.250(2/ 2) (14.000-14.500)	0
Mn-54	10	0.0060	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 2)	0
Ra-226	10	0.0120	0.4287(8/ 8) (0.090- 0.770)	Unit 1 Outfall 0.8 mi. SSW	0.7700(2/ 2) (0.770- 0.770)	0.2200(2/ 2) (0.200- 0.240)	0
Th-228	10	0.0080	0.5425(8/ 8) (0.080- 1.040)	Unit 1 Outfall 0.8 mi. SSW	0.9950(2/ 2) (0.950- 1.040)	0.3650(2/ 2) (0.300- 0.430)	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
Table 12a							
Non-Migratory Marine Quarterly Composite (pCi/g)							
			(0.002- 0.006)	Unit 1 Outfall 0.9 mi. WSW	(0.004- 0.006)		
Co-58	49		0.0172(6/ 49) (0.006- 0.054)	Unit 1 Outfall 0.9 mi. WSW	0.0194(5/ 17) (0.006- 0.054)	<LLD (0/ 0)	0
Co-60	49		0.0155(11/ 49) (0.003- 0.052)	Unit 1 Outfall 0.9 mi. WSW	0.0196(8/ 17) (0.003- 0.052)	<LLD (0/ 0)	0
Cs-134	49		<LLD (0/ 49)	ALL <LLD	-----	<LLD (0/ 0)	0
Cs-137	49		0.0052(32/ 49) (0.001- 0.010)	Unit 1 Outfall 0.9 mi. WSW	0.0057(11/ 17) (0.003- 0.010)	<LLD (0/ 0)	0
Fe-59	49		<LLD (0/ 49)	ALL <LLD	-----	<LLD (0/ 0)	0

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Table 12a Non-Migratory Marine Quarterly Composite (pCi/g)							
I-131	49	<LLD (0/ 49)	<LLD (0.570- 3.400)	ALL <LLD Unit 1 Outfall 0.9 mi. WSW	----- (0.990- 3.200)	<LLD (0/ 0)	0
Mn-54	49	<LLD (0/ 49)	<LLD (0.060- 0.160)	ALL <LLD Unit 1 Outfall 0.9 mi. WSW	----- (0.060- 0.160)	<LLD (0/ 0)	0
Table 12a Non-Migratory Marine Quarterly Composite (pCi/g)							
Sr-90	49	<LLD (0/ 49)	<LLD (0.060- 0.330)	ALL <LLD Unit 1 Outfall 0.9 mi. WSW	----- (0.060- 0.330)	<LLD (0/ 0)	0
Zn-65	49	<LLD (0/ 49)	<LLD (0/ 49)	ALL <LLD	-----	<LLD (0/ 0)	0
Zr(Nb)-95	49	<LLD (0/ 49)	<LLD (0/ 49)	ALL <LLD	-----	<LLD (0/ 0)	0
Table 12b Non-Migratory Marine Quarterly Composite (pCi/g)							
Co-58	45	<LLD (0/ 45)	<LLD (0.0045(2/ 45)	ALL <LLD	-----	<LLD (0/ 0)	0
Co-60	45	<LLD (0.003- 0.006)	<LLD (0.003- 0.006)	Unit 1 Outfall 0.9 mi. WSW	0.0060(1/ 12) (0.006- 0.006)	<LLD (0/ 0)	0
Cs-134	45	<LLD (0/ 45)	<LLD (0/ 45)	ALL <LLD	-----	<LLD (0/ 0)	0
Cs-137	45	<LLD (0/ 45)	<LLD (0/ 45)	ALL <LLD	-----	<LLD (0/ 0)	0
Fe-59	45	<LLD (0/ 45)	<LLD (0/ 45)	ALL <LLD	-----	<LLD (0/ 0)	0

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Table 12b Non-Migratory Marine Quarterly Composite (pCi/g)							
	I-131	45	<LLD (0/ 45) (0.070- 1.400)	ALL <LLD Unit 1 Outfall 0.9 mi. WSW	----- (0.500- 0.920)	<LLD (0/ 0)	0
	Mn-54	45	<LLD (0/ 45)	ALL <LLD	-----	<LLD (0/ 0)	0
	Sr-90	45	<LLD (0/ 45)	ALL <LLD	-----	<LLD (0/ 0)	0

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Table 12b Non-Migratory Marine Quarterly Composite (pCi/g)									
	Zn-65	45	<LLD (0/ 45)	ALL	<LLD	-----	<LLD (0/ 0)	0	
	Zr(Nb)-95	45	<LLD (0/ 45)	ALL	<LLD	-----	<LLD (0/ 0)	0	
Table 13a Local Crops Semi-Annual Composite (pCi/g)									
	Co-58	8	<LLD (0/ 8)	ALL	<LLD	-----	<LLD (0/ 0)	0	
	Co-60	8	<LLD (0/ 8)	ALL	<LLD	-----	<LLD (0/ 0)	0	
	Cs-134	8	<LLD (0/ 8)	ALL	<LLD	-----	<LLD (0/ 0)	0	
	Cs-137	8	<LLD (0/ 8)	ALL	<LLD	-----	<LLD (0/ 0)	0	
	I-131	8	<LLD (0/ 8)	ALL	<LLD	-----	<LLD (0/ 0)	0	
Table 13a Local Crops Semi-Annual Composite (pCi/g)									
	Zr(Nb)-95	8	(1.310- 2.600)	San Mateo Canyon 2.6 mi. NW	(1.500- 2.600)	-----	<LLD (0/ 0)	0	
Table 13B LOCAL CROPS Semi-Annual Composite (pCi/g)									
cauliflower	Sr-90	1	0.0005	<LLD (0/ 1)	ALL	<LLD	-----	<LLD (0/ 0)	0
cucumber	Sr-90	3	0.0005	<LLD (0/ 2)	ALL	<LLD	-----	<LLD (0/ 1)	0
green beans	Sr-90	1	0.0005	<LLD (0/ 0)	ALL	<LLD	-----	<LLD (0/ 1)	0
Table 13B LOCAL CROPS Semi-Annual Composite (pCi/g)									
tomato	Sr-90	3	0.0005	<LLD (0/ 1)	ALL	<LLD	-----	<LLD (0/ 2)	0

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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	0.0633(3/ 4) (0.030- 0.130)	Camp San Onofre Camp Pen. 2.5 mi. NE	0.1300(1/ 1) (0.130- 0.130)	<LLD (0/ 1)	0
	I-131	5	0.0210	<LLD (0/ 4)	ALL <LLD	-----	<LLD (0/ 1)	0
Table 14								
Soil Samples								
Annual Composite (pCi/g)								
	K-40	5	0.0840	13.400(4/ 4) (6.100-20.000)	Camp San Onofre Camp Pen. 2.5 mi. NE	20.000(1/ 1) (20.000-20.000)	19.000(1/ 1) (19.000-19.000)	0
	Sr-89	5	0.0070	<LLD (0/ 4)	ALL <LLD	-----	<LLD (0/ 1)	0
	Sr-90	5	0.0070	<LLD (0/ 4)	ALL <LLD	-----	<LLD (0/ 1)	0
	Zr(Nb)-95	5	0.0150	<LLD (0/ 4)	ALL <LLD	-----	<LLD (0/ 1)	0
Table 15								
Kelp								
Semi-Annual Composite (pCi/g)								
macrocystis p.	Co-58	7	0.0090	<LLD (0/ 5)	ALL <LLD	-----	<LLD (0/ 2)	0
macrocystis p.	Co-60	7	0.0100	<LLD (0/ 5)	ALL <LLD	-----	<LLD (0/ 2)	0
macrocystis p.	Cs-134	7	0.0080	<LLD (0/ 5)	ALL <LLD	-----	<LLD (0/ 2)	0
macrocystis p.	Cs-137	7	0.0060	0.0045(2/ 5) (0.004- 0.005)	San Onofre Kelp Bed 1.5 mi. SSW	0.0046(1/ 2) (0.005- 0.005)	0.0035(2/ 2) (0.003- 0.003)	0
macrocystis p.	Fe-59	7	0.0180	<LLD (0/ 5)	ALL <LLD	-----	<LLD (0/ 2)	0

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ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM SUMMARY
 Docket Nos. 50-206, 50-361, 50-362
 Reporting period: January 1, 1987 to December 31, 1987

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	Mean(f) Range	Control Locations Mean(f) Range	Number of Nonroutine Reported Measurements
Table 15							
Kelp							
Semi-Annual Composite (pCi/g)							
macrocystis p.	I-131	7 0.0200	0.0174(5/ 5) (0.002- 0.034)	San Onofre Kelp Bed 1.5 mi. SSW	0.0200(2/ 2) (0.006- 0.034)	0.0160(2/ 2) (0.004- 0.028)	0
macrocystis p.	K-40	7 0.0770	6.4000(5/ 5) (5.400- 6.800)	Barn Kelp Bed 6.3 mi. SSE	6.8000(1/ 1) (6.800- 6.800)	6.5000(2/ 2) (4.800- 8.200)	0
macrocystis p.	Mn-54	7 0.0070	<LLD (0/ 5)	ALL <LLD	-----	<LLD (0/ 2)	0
Table 15							
Kelp							
Semi-Annual Composite (pCi/g)							
macrocystis p.	Zn-65	7 0.0140	<LLD (0/ 5)	ALL <LLD	-----	<LLD (0/ 2)	0
macrocystis p.	Zr(Nb)-95	7 0.0140	<LLD (0/ 5)	ALL <LLD	-----	<LLD (0/ 2)	0