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ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM SUMMARY
 Docket Nos. 50-206, 50-361, 50-362
 Reporting period: January 1, 1981 to December 31, 1981

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	25.155(227/268) (16.100-38.700)	Camp San Mateo Camp Pen. 3.5 mi. N	31.000(4/ 4) (26.700-36.800)	24.625(8/ 8) (20.300-30.100)	0
Table 1B Direct Radiation Annual Composite (millirem)							
Gamma Exposure	69	5.0000	74.789(57/ 67) (56.000-88.000)	Camp San Mateo Camp Pen. 3.5 mi. N	88.000(1/ 1) (88.000-88.000)	75.000(2/ 2) (75.000-75.000)	0
Table 2 Airborne Weekly Composite (pCi/cu.m)							
Gross Beta	530	0.0011	0.0885(150/477) (0.014- 0.560)	Units 2/3 Switchyard 0.13 mi. NNE	0.1344(51/ 53) (0.020- 0.560)	0.0904(36/ 53) (0.026- 0.290)	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	0.0884(16/ 16) (0.020- 0.230)	Units 2/3 Switchyard 0.13 mi. NNE	0.1465(4/ 4) (0.026- 0.230)	0.0695(4/ 4) (0.050- 0.090)	0
Ce-141	20	0.0010	0.0253(6/ 16) (0.008- 0.050)	Units 2/3 Switchyard 0.13 mi. NNE	0.0455(2/ 4) (0.041- 0.050)	0.0130(2/ 4) (0.008- 0.018)	0
Ce-144	20	0.0020	0.0228(12/ 16) (0.006- 0.051)	NE Site Boundary Visitors Center 0.2 mi. NNE	0.0420(3/ 4) (0.030- 0.051)	0.0260(3/ 4) (0.014- 0.040)	0
Co-58	20	0.0010	<LLD (0/ 16)	ALL <LLD	-----	<LLD (0/ 4)	0
Co-60	20	0.0010	0.0070(2/ 16) (0.006- 0.008)	NE Site Boundary Visitors Center 0.2 mi. NNE	0.0080(1/ 4) (0.008- 0.008)	<LLD (0/ 4)	0
Cs-134	20	0.0010	<LLD (0/ 16)	ALL <LLD	-----	<LLD (0/ 4)	0
Cs-137	20	0.0010	0.0020(2/ 16) (0.002- 0.002)	Units 2/3 Switchyard 0.13 mi. NNE	0.0021(1/ 4) (0.002- 0.002)	<LLD (0/ 4)	0

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Table 4A Airborne Quarterly Composite (pCi/cu.m)								
	Ru-103	20	0.0010	0.0201(7/ 16) (0.004- 0.056)	Units 2/3 Switchyard 0.13 mi. NNE	0.0306(2/ 4) (0.005- 0.056)	0.0195(2/ 4) (0.011- 0.028)	0
	Zr(Nb)-95	20	0.0010	0.0341(9/ 16) (0.009- 0.103)	NE Site Boundary Visitors Center 0.2 mi. NNE	0.0710(2/ 4) (0.039- 0.103)	0.0560(2/ 4) (0.036- 0.076)	0
Table 4C Airborne Quarterly Composite (pCi/cu.m)								
	Gross Alpha	44	0.0003	0.0032(14/ 40) (0.001- 0.009)	Units 2/3 Switchyard 0.13 mi. NNE	0.0047(4/ 4) (0.002- 0.009)	0.0042(4/ 4) (0.002- 0.006)	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

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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
Table 6 Ocean Water Bi-Monthly Composite (pCi/L)								
	Gross Beta	24	105.00	905.00(18/ 18) (660.00-1200.0)	Outfall - Unit 3 0.7 mi. SW	956.67(6/ 6) (700.00-1200.0)	883.33(6/ 6) (750.00-1000.0)	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		<LLD (0/ 36)	ALL <LLD	-----	<LLD (0/ 0)	0
	Gross Beta	36		0.9472(36/ 36) (0.300- 2.200)	Tri-Cities Munic. Water Dist. Res. 8.7 mi. NW	1.0583(12/ 12) (0.700- 2.200)	<LLD (0/ 0)	0
Table 9c Drinking Water Monthly Composite (pCi/l)								
	Gross Alpha	36		4.0000(4/ 36) (2.000- 6.000)	Huntington Beach 37 mi. NW	4.0000(2/ 12) (2.000- 6.000)	<LLD (0/ 0)	0
	Gross Beta	36		10.500(36/ 36) (4.000-17.000)	Tri-Cities Munic. Water Dist. Res. 8.7 mi. NW	12.333(12/ 12) (10.000-17.000)	<LLD (0/ 0)	0

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Table 9d Drinking Water Quarterly Composite (pCi/l)							
	Gross Alpha	12	<LLD (0/ 12)	ALL <LLD	-----	<LLD (0/ 0)	0
	Gross Beta	12	1.1833(12/ 12) (0.700- 2.000)	Tri-Cities Munic. Water Dist. Res. 8.7 mi. NW	1.3750(4/ 4) (0.700- 2.000)	<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	10.500(12/ 12) (7.000-12.000)	Tri-Cities Munic. Water Dist. Res. 8.7 mi. NW	11.750(4/ 4) (11.000-12.000)	<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

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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	0.0200(1/ 6) (0.020- 0.020)	San Onofre State Beach 0.6 mi. SE	0.0200(1/ 2) (0.020- 0.020)	<LLD (0/ 2)	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	0.3433(6/ 6) (0.170- 0.880)	San Onofre State Beach 0.6 mi. SE	0.6600(2/ 2) (0.440- 0.880)	0.4150(2/ 2) (0.280- 0.550)	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)							
			(0.020- 0.020)	Unit 1 Outfall 0.8 mi. SSW	(0.020- 0.020)		
			(0.060- 0.060)	Unit 1 Outfall 0.8 mi. SSW	(0.060- 0.060)		
Co-58	10	0.0080	0.0380(2/ 8) (0.030- 0.046)	Unit 1 Outfall 0.6 mi. W	0.0460(1/ 2) (0.046- 0.046)	<LLD (0/ 2)	0
Co-60	10	0.0080	0.3750(8/ 8) (0.021- 0.980)	Unit 1 Outfall 0.6 mi. W	0.9050(2/ 2) (0.830- 0.980)	<LLD (0/ 2)	0
Cs-134	10	0.0070	<LLD (0/ 8)	ALL <LLD	-----	<LLD (0/ 2)	0
Cs-137	10	0.0060	0.0408(5/ 8) (0.030- 0.053)	Unit 1 Outfall 0.6 mi. W	0.0465(2/ 2) (0.040- 0.053)	<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
Mn-54	10	0.0060	0.0460(3/ 8) (0.023- 0.080)	Unit 1 Outfall 0.8 mi. SSW	0.0800(1/ 2) (0.080- 0.080)	<LLD (0/ 2)	0
Ra-226	10	0.0120	0.4012(8/ 8) (0.130- 0.540)	Unit 1 Outfall 0.8 mi. SSW	0.4600(2/ 2) (0.380- 0.540)	0.1180(2/ 2) (0.090- 0.146)	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)							
			(0.006- 0.180)	Unit 1 Outfall 0.9 mi. WSW	(0.028- 0.180)		
			(0.010- 0.010)	Newport Beach 18.2 mi. NW	(0.010- 0.010)		
			(0.020- 0.020)	Newport Beach 18.2 mi. NW	(0.020- 0.020)		
			(0.005- 0.006)	Unit 1 Outfall 0.9 mi. WSW	(0.006- 0.006)		
Co-58	48		0.0451(11/ 48) (0.007- 0.137)	Unit 1 Outfall 0.9 mi. WSW	0.0587(7/ 16) (0.007- 0.137)	<LLD (0/ 0)	0
Co-60	48		0.2405(28/ 48) (0.003- 2.000)	Unit 1 Outfall 0.9 mi. WSW	0.3260(16/ 16) (0.004- 2.000)	<LLD (0/ 0)	0
Cs-134	48		<LLD (0/ 48)	ALL <LLD	-----	<LLD (0/ 0)	0
Cs-137	48		0.0072(28/ 48) (0.003- 0.013)	Unit 1 Outfall 0.9 mi. WSW	0.0080(9/ 16) (0.005- 0.013)	<LLD (0/ 0)	0
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)							
			(3.000-51.000)	Units 2/3 Outfall 1.5 mi. SSW	(3.000-50.000)		
	I-131	48	<LLD (0/ 48)	ALL <LLD	-----	<LLD (0/ 0)	0
	Mn-54	48	0.0375(6/ 48) (0.006- 0.170)	Units 2/3 Outfall 1.5 mi. SSW	0.0680(3/ 16) (0.009- 0.170)	<LLD (0/ 0)	0
			(0.045- 0.045)	Units 2/3 Outfall 1.5 mi. SSW	(0.045- 0.045)		
Table 12a Non-Migratory Marine Quarterly Composite (pCi/g)							
	Sr-90	48	<LLD (0/ 48)	ALL <LLD	-----	<LLD (0/ 0)	0
	Zn-65	48	0.0463(3/ 48) (0.019- 0.100)	Unit 1 Outfall 0.9 mi. WSW	0.0600(2/ 16) (0.020- 0.100)	<LLD (0/ 0)	0
	Zr(Nb)-95	48	0.0200(2/ 48) (0.016- 0.024)	Newport Beach 18.2 mi. NW	0.0240(1/ 16) (0.024- 0.024)	<LLD (0/ 0)	0

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Table 12b Non-Migratory Marine Quarterly Composite (pCi/g)							
			(0.020- 0.160)	Unit 1 Outfall 0.9 mi. WSW	(0.110- 0.160)		
			(0.017- 0.017)	Newport Beach 18.2 mi. NW	(0.017- 0.017)		
Co-58	41		0.0180(3/ 41) (0.013- 0.021)	Unit 1 Outfall 0.9 mi. WSW	0.0210(1/ 12) (0.021- 0.021)	<LLD (0/ 0)	0
Co-60	41		0.1324(12/ 41) (0.011- 0.420)	Unit 1 Outfall 0.9 mi. WSW	0.1872(4/ 12) (0.029- 0.330)	<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	0.0408(5/ 41) (0.020- 0.060)	Unit 1 Outfall 0.9 mi. WSW	0.0420(2/ 12) (0.034- 0.050)	<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)							
			(0.120- 0.120)	SE of Oceanside 22 mi. SE	(0.120- 0.120)		
	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	0.0900(1/ 8) (0.090- 0.090)	SE of Oceanside 22 mi. SE	0.0900(1/ 4) (0.090- 0.090)	<LLD (0/ 0)	0

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Table 13B LOCAL CROPS Semi-Annual Composite (pCi/g)								
corn	Sr-90	1	0.0005	<LLD (0/ 1)	ALL <LLD	-----	<LLD (0/ 0)	0
cucumber	Sr-90	1	0.0005	<LLD (0/ 1)	ALL <LLD	-----	<LLD (0/ 0)	0
parsley	Sr-90	2	0.0005	<LLD (0/ 0)		0.0900(1/ 2)	0.0900(1/ 2)	0
				SE of Oceanside 22 mi. SE	(0.090- 0.090)	(0.090- 0.090)		
Table 13B LOCAL CROPS Semi-Annual Composite (pCi/g)								
red cabbage	Sr-90	1	0.0005	<LLD (0/ 1)	ALL <LLD	-----	<LLD (0/ 0)	0
tomato	Sr-90	3	0.0005	<LLD (0/ 1)	ALL <LLD	-----	<LLD (0/ 2)	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	0.1100(3/ 4)	Camp San Onofre Camp Pen. 2.5 mi. NE	0.1500(1/ 1) (0.150- 0.150)	<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)								
	Sr-89	5	0.0070	<LLD (0/ 4)	ALL <LLD	-----	<LLD (0/ 1)	0
	Sr-90	5	0.0070	0.0350(2/ 4)	Old Route 101-ESE 3.0 mi. ESE	0.0500(1/ 1) (0.050- 0.050)	<LLD (0/ 1)	0
	Zr(Nb)-95	5	0.0150	<LLD (0/ 4)	ALL <LLD	-----	<LLD (0/ 1)	0

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ENVIRONMENTAL RADIOLOGICAL MONITORING PROGRAM SUMMARY
 Docket Nos. 50-206, 50-361, 50-362
 Reporting period: January 1, 1981 to December 31, 1981

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)								
			(0.016- 0.016)	Barn Kelp Bed 6.3 mi. SSE	(0.016- 0.016)			
macrocyctis p.	Co-58	8	0.0090	<LLD (0/ 6)	ALL <LLD	<LLD (0/ 2)	0	
macrocyctis p.	Co-60	8	0.0100	0.0075(2/ 6) (0.006- 0.009)	San Onofre Kelp Bed 1.5 mi. SSW	0.0090(1/ 2) (0.009- 0.009)	<LLD (0/ 2) 0	
macrocyctis p.	Cs-134	8	0.0080	<LLD (0/ 6)	ALL <LLD	<LLD (0/ 2)	0	
macrocyctis p.	Cs-137	8	0.0060	<LLD (0/ 6)	ALL <LLD	<LLD (0/ 2)	0	
macrocyctis p.	Fe-59	8	0.0180	<LLD (0/ 6)	ALL <LLD	<LLD (0/ 2)	0	
Table 15 Kelp Semi-Annual Composite (pCi/g)								
macrocyctis p.	I-131	8	0.0200	0.0132(5/ 6) (0.006- 0.018)	Newport Beach 15.6 mi. NW	0.0200(2/ 2) (0.010- 0.030)	0.0200(2/ 2) (0.010- 0.030)	0
macrocyctis p.	Mn-54	8	0.0070	0.0050(1/ 6) (0.005- 0.005)	San Onofre Kelp Bed 1.5 mi. SSW	0.0050(1/ 2) (0.005- 0.005)	<LLD (0/ 2)	0
Table 15 Kelp Semi-Annual Composite (pCi/g)								
macrocyctis p.	Zn-65	8	0.0140	<LLD (0/ 6)	ALL <LLD	<LLD (0/ 2)	0	
macrocyctis p.	Zr(Nb)-95	8	0.0140	0.0740(3/ 6) (0.064- 0.090)	San Onofre Kelp Bed 1.5 mi. SSW	0.0900(1/ 2) (0.090- 0.090)	0.0530(1/ 2) (0.053- 0.053)	0