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A. Edward Scherer
Manager of
Nuclear Regulatory Affairs

May 16, 2006

U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

Subject: Docket No. 50-362
Report: Exceeding NPDES Temperature Permit Limits
San Onofre Nuclear Generating Station (SONGS), Unit 3

Reference: Letter, H. W. Newton (SCE) to John Robertus (California Regional Water Quality Control Board, San Diego Region), "NPDES March 2006 Discharge Monitoring Report, San Onofre Nuclear Generating Station (SONGS) Unit 3", April 24, 2006.

Dear Sir or Madam:

On March 5, 2006, the Unit 3 circulating water delta temperature exceeded 25 degrees for less than one minute. Southern California Edison reported this condition to the California Regional Water Quality Control Board (RWQCB), San Diego Region.

SONGS Unit 3 Facility Operating License (No. NPF-15), Appendix B, Section 3.2, requires violations of the National Pollution Discharge Elimination System (NPDES) Permit or State certification (pursuant to Section 401 of the Clean Water Act), to be reported to the NRC by submitting copies of the reports required by the NPDES Permit or certification. Accordingly, a copy of the report submitted to the RWQCB is provided as an attachment to this letter.

It should be noted that the NPDES Permit requires temperature data to be continuously monitored and recorded every two hours. This temperature exceedance occurred between the times recorded on the circulating water temperature data logger. Therefore, the attached discharge monitoring report does not contain this transient.

If you have any questions, please contact Mr. Clay E. Williams at (949) 368-6707.

Sincerely,

Attachment

cc: B. S. Mallett, NRC Regional Administrator, Region IV
N. K. Kalyanam, NRC Project Manager, San Onofre Units 2, and 3
C. C. Osterholtz, NRC Senior Resident Inspector, San Onofre Units 2 and 3

P.O. Box 128
San Clemente, CA 92672
949-368-7501
Fax 949-368-7575

EDS /
JEZS

APR 24 2006

Mr. John Robertus
California Regional Water Quality Control Board
San Diego Region
9174 Sky Park Ct. Suite 100
San Diego, California 92123
IC: 13-0086.01

SUBJECT: NPDES March 2006 Discharge Monitoring Report
San Onofre Nuclear Generating Station, Unit 3

Dear Mr. Robertus:

SCE submits the subject report in accordance with the requirements of Order No. R9-2005-0006 (NPDES Permit No. CA0108181). All sampled water sources were found to be within permit limits with one exception. On March 5, 2006 at 00:37, the Unit 3 instantaneous circ water delta temperature limit of 25 degrees F was exceeded for less than one minute during a circ pump bumping evolution. The cause of the event was a stuck shut discharge valve on the pump. When the delta temperature limit was approached, the control room reduced the load on the turbine to drop the discharge temperature. This action minimized but did not prevent the temperature exceedance. This event was reported to your staff by phone notification on March 6th. Since the event resulted in a delta temperature of just slightly over 25 degrees F for less than one minute, this had no significant effect on the offshore environment.

Pursuant to Order No. R9-2005-0006, State and Federal Standard Provisions, Section E, the following representative has prepared and is authorized to sign the reports required by this order: Robert K. Heckler, Environmental Engineer.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely



H. W. Newton
Manager, Site Support Services

Enclosure

cc: Environmental Protection Agency, Region IX
State Water Resources Control Board

Southern California Edison Monthly Report

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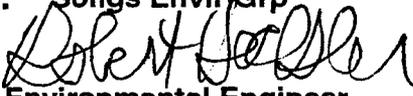
Facility : Songs Unit 3 **Exact Sample Point :** Intake and Discharge Conduits
Order No : R9-2005-0006
Report Freq : Monthly **Collected By :** Songs Envir Grp
Report For : March 2006 **Analyzed By :** Songs Envir Grp
Report Due: May 01, 2006 **Signed :** *[Signature]*
Waste Stream : Water Intake and Combined Discharge **Title :** Environmental Engineer

PARAMETER: Temperature Difference (degrees Fahrenheit) = Temperature at Combined Discharge Minus Temperature at Water Intake

Date	Combined Discharge	Water Intake		Daily Avg Diff	Daily Max Difference
	Avg	Avg	Max		
3-1-06	77	58	59	19	19
3-2-06	77	58	59	19	19
3-3-06	76	58	59	19	19
3-4-06	76	57	58	19	19
3-5-06	75	57	57	18	19
3-6-06	75	56	57	18	18
3-7-06	75	57	58	18	19
3-8-06	79	55	56	24	71
3-9-06	74	56	57	18	19
3-10-06	73	55	56	19	19
3-11-06	72	54	54	19	19
3-12-06	72	53	54	19	19
3-13-06	73	54	55	19	19
3-14-06	72	54	54	19	19
3-15-06	72	53	54	19	19
3-16-06	72	53	54	19	19
3-17-06	72	54	54	19	19
3-18-06	72	54	55	19	19
3-19-06	73	54	55	18	19
3-20-06	73	55	55	18	19
3-21-06	74	55	56	18	19
3-22-06	73	55	55	19	19
3-23-06	72	54	54	18	19
3-24-06	71	53	54	18	18
3-25-06	72	54	54	18	18
3-26-06	73	54	55	18	18
3-27-06	74	56	58	18	18
3-28-06	76	58	58	18	18
3-29-06	61	58	58	4	18
3-30-06	58	58	58	0	0
3-31-06	58	58	58	0	0
Avg	72	55	56	17	19
Reqt	--	--	--	25	25

Heat Treatment Occured : Mar 08, 2006

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Facility : Songs Unit 3 **Exact Sample Point :** Intake and Screenwell
Order No : R9-2005-0006
Report Freq : Monthly **Collected By :** Instrumentation
Report For : March 2006 **Analyzed By :** Songs Envir Grp
Report Due : May 01, 2006 **Signed :** 
Report Topic : Intake Conduit and Screenwell Heat Treatment **Title :** Environmental Engineer

Intake and Screenwell Heat Treatment Occured This Month.

PARAMETER	UNITS	REQUIREMENT	RESULT
Date/Time Treatment Began	--	--	3/8/2006 03:10 am
Date/Time Treatment Ended	--	--	3/8/2006 04:27 am
Total Time of Treatment	hours	--	1.28
Maximum Screenwell Temperature Attained (Screenwell Target Temperature)	degr F	* 100	101
Screenwell Target Temp Duration	hours	* 2.1	1.3

Following Section only Completed if Screenwell Target Temperature was Exceeded.

Maximum Screenwell Temperature Attained	degr F	--	N/A
Degrees Above Screenwell Target Temperature	degr F	10	N/A
Maximum Screenwell Temp Duration	min	15	N/A

* Value Varies (From the Mussel Mortality Graph)

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Facility :	Songs Unit 3	Exact Sample Point :	Intake and Screenwell
Order No :	R9-2005-0006	Collected By :	Instrumentation
Report Freq :	Monthly	Analyzed By :	Songs Envir Grp
Report For :	March 2006	Signed :	
Report Due :	May 01, 2006	Title :	Environmental Engineer
Report Topic :	Intake Conduit and Screenwell Heat Treatment		

Intake and Screenwell Heat Treatment Occured This Month.

PARAMETER	UNITS	REQUIREMENT	RESULT
Maximum Intake Conduit Temperature Attained (Intake Conduit Target Temperature)	degr F	125	125
Screenwell Target Temp Duration	hours	* 2.1	1.3

Following Section only Completed if Intake Target Temperature was exceeded.

Maximum Intake Conduit Temperature Attained	degr F	--	N/A
Degrees Above Intake Conduit Target Temperature	degr F	10	N/A
Maximum Intake Conduit Temp Duration (Minutes)	min	15	N/A

* Value Varies (From the Mussel Mortality Curve)

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Facility :	Songs Unit 3	Exact Sample Point :	Discharge Conduit
Order No :	R9-2005-0006	Collected By :	Instrumentation
Report Freq :	Monthly	Analyzed By :	Songs Envir Grp
Report For :	March 2006	Signed :	
Report Due :	May 01, 2006	Title :	Environmental Engineer
Report Topic :	Discharge Conduit Heat Treatment		

Discharge and Screenwell Heat Treatment Occured This Month.

PARAMETER	UNITS	REQUIREMENT	RESULT
Date/Time Treatment Began	--	--	01:20 am 3/8/2006
Date/Time Treatment Ended	--	--	01:30 am 3/8/2006
Total Time of Treatment	hours	--	0.17
Maximum Discharge Conduit Temperature Attained (Discharge Conduit Target Temperature)	degr F	* 105	101

Following Section only Completed if Screenwell Target Temperature was Exceeded.

Maximum Screenwell Temperature Attained	degr F	--	N/A
Degrees Above Screenwell Target Temperature	degr F	10	N/A
Maximum Screenwell Temp Duration	min	15	N/A

* Value Varies (From the Mussel Mortality Graph)

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Facility : Songs Unit 3
Order No : R9-2005-0006
Report Freq : Monthly
Report For : March 2006
Report Due : May 01, 2006
Waste Stream : Cooling Water Intake

Exact Sample Point : Intake and
Discharge Conduits

Collected By : Songs Envir Grp
Analyzed By : Songs Envir Grp
Signed : 
Title : Environmental Engineer

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
pH	--	GRAB	--	--	7.9	3/8/2006 12:13 pm
Turbidity	NTU	GRAB	--	--	3.8	3/8/2006 08:32 am

Southern California Edison Monthly Report

Facility :	Songs Unit 3	Exact Sample Point :	Point of Discharge
Order No :	R9-2005-0006		
Report Freq :	Monthly	Collected By :	Songs Envir Grp
Report For :	March 2006	Analyzed By :	Songs Envir Grp
Report Due :	May 01, 2006	Signed :	
Waste Stream :	Combined Discharge	Title :	Environmental Engineer

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Turbidity	NTU	GRAB	--	--	8.6	3/08/06 08:30 am
pH	--	GRAB	--	6 - 9	7.9	3/08/06 12:10 pm
Hydrazine	ug/l	GRAB	Inst Max	--	< 4.0	3/29/06 05:40 pm
	lbs/day			--	< 40.7	
Total Chlorine Residual	ug/l	GRAB	Inst Max	200	50.0	3/07/06 09:11 am
	lbs/day			2100	21.2	
Total Chlorine Residual	ug/l	GRAB	Daily Max	88	4	3/07/06 09:11 am
				940	1.7	
	ug/l	GRAB	6-MO Median	22	2	3/07/06 09:11 am

Southern California Edison Monthly Report

Facility :	Songs Unit 3	Exact Sample Point :	Point of Discharge
Order No :	R9-2005-0006		
Report Freq :	Monthly	Collected By :	Songs Envir Grp
Report For :	March 2006	Analyzed By :	Songs Envir Grp
Report Due :	May 01, 2006	Signed :	
Waste Stream :	Hotwell Overboard (Low Volume Waste)	Title :	Environmental Engineer

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30	< 5.0	3/29/2006 09:47 am
	lbs/day			16.75	< 0.35	
Total Suspended Solids	mg/l	GRAB	Daily Max	100	< 5.0	3/29/2006 09:47 am
	lbs/day			55.83	< 2.79	
Grease and Oil	mg/l	GRAB	30-Day Avg	15	10.2	3/29/2006 09:47 am
	lbs/day			8.38	0.71	
Grease and Oil	mg/l	GRAB	Daily Max	20	10.2	3/29/2006 09:47 am
	lbs/day			11.17	5.70	

Southern California Edison Monthly Report

Facility : Songs Unit 3 **Exact Sample Point :** Point of Discharge
Order No : R9-2005-0006
Report Freq : Monthly **Collected By :** Songs Envir Grp
Report For : March 2006 **Analyzed By :** Songs Envir Grp
Report Due : May 01, 2006 **Signed :** *Robert Heald*
Waste Stream : Blowdown Processing **Title :** Environmental Engineer
(Low Volume Waste)

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30	*	*
	lbs/day			0.00		
Total Suspended Solids	mg/l	GRAB	Daily Max	100	*	*
	lbs/day			0.00		
Grease and Oil	mg/l	GRAB	30-Day Avg	15	*	*
	lbs/day			0.00		
Grease and Oil	mg/l	GRAB	Daily Max	20	*	*
	lbs/day			0.00		

* NO FLOW IN MARCH 2006

Southern California Edison Monthly Report

Facility :	Songs Unit 3	Exact Sample Point :	Point of Discharge
Order No :	R9-2005-0006		
Report Freq :	Monthly	Collected By :	Songs Envir Grp
Report For :	March 2006	Analyzed By :	Songs Envir Grp
Report Due :	May 01, 2006	Signed :	
Waste Stream :	Makeup Demineralizer (Low Volume Waste)	Title :	Environmental Engineer

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30	< 5.0	3/2/2006
	lbs/day			23.60	< 1.98	04:08 pm
	mg/l	GRAB	Daily Max	100	< 5.0	3/2/2006
	lbs/day			77.73	< 3.88	04:08 pm
Grease and Oil	mg/l	GRAB	30-Day Avg	15	5.4	3/2/2006
	lbs/day			11.66	2.14	04:08 pm
	mg/l	GRAB	Daily Max	20	5.4	3/2/2006
	lbs/day			15.27	4.19	04:08 pm

Southern California Edison Monthly Report

Facility : Songs Unit 3 **Exact Sample Point :** Point of
Order No : R9-2005-0006 **Discharge**
Report Freq : Monthly **Collected By :** Songs Envir Grp
Report For : March 2006 **Analyzed By :** Songs Envir Grp
Report Due : May 01, 2006 **Signed :** 
Waste Stream : RadWaste System **Title :** Environmental Engineer
 (Low Volume Waste)

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30	< 5.0	3/17/2006
	lbs/day			4.58	< 0.15	08:05 am
Total Suspended Solids	mg/l	GRAB	Daily Max	100	< 5.0	3/17/2006
	lbs/day			15.00	< 0.75	08:05 am
Grease and Oil	mg/l	GRAB	30-Day Avg	15	< 5.0	3/17/2006
	lbs/day			2.25	< 0.15	08:05 am
Grease and Oil	mg/l	GRAB	Daily Max	20	< 5.0	3/17/2006
	lbs/day			3.00	< 0.75	08:05 am

Southern California Edison Monthly Report

Facility : Songs Unit 3 **Exact Sample Point :** Point of Discharge
Order No : R9-2005-0006
Report Freq : Monthly **Collected By :** Songs Envir Grp
Report For : March 2006 **Analyzed By :** Songs Envir Grp
Report Due : May 01, 2006 **Signed :** 
Waste Stream : Intake Structure **Title :** Environmental Engineer
 Sump (Low Volume Waste)

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30	6.3	3/2/2006 12:17 pm
	lbs/day			17.50	3.68	
Total Suspended Solids	mg/l	GRAB	Daily Max	100	6.3	3/2/2006 12:17 pm
	lbs/day			58.33	3.68	
Grease and Oil	mg/l	GRAB	30-Day Avg	15	< 5.0	3/2/2006 12:20 pm
	lbs/day			8.75	< 2.92	
	mg/l			GRAB	Daily Max	20
lbs/day	11.67	< 2.92				

Southern California Edison Monthly Report

Facility : Songs Unit 3
Order No : R9-2005-0006
Report Freq : Monthly
Report For : March 2006
Report Due : May 01, 2006
Waste Stream : Plant Drains
 (Low Volume Waste)

Exact Sample Point : Point of Discharge
Collected By : Songs Envir Grp
Analyzed By : Songs Envir Grp
Signed : 
Title : Environmental Engineer

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30	< 5.0	3/3/2006
	lbs/day			12.50	< 2.09	10:31 am
Total Suspended Solids	mg/l	GRAB	Daily Max	100	< 5.0	3/3/2006
	lbs/day			41.88	< 2.09	10:31 am
Grease and Oil	mg/l	GRAB	30-Day Avg	15	< 5.0	3/3/2006
	lbs/day			6.25	< 2.09	10:32 am
Grease and Oil	mg/l	GRAB	Daily Max	20	< 5.0	3/3/2006
	lbs/day			8.13	< 2.09	10:32 am

Southern California Edison Monthly Report

Facility : Songs Unit 3 **Exact Sample Point :** Point of
Order No : R9-2005-0006 **Discharge**
Report Freq : Monthly **Collected By :** Songs Envir Grp
Report For : March 2006 **Analyzed By :** Songs Envir Grp
Report Due : May 01, 2006 **Signed :** 
Waste Stream : Concrete Cutting Water **Title :** Environmental Engineer
(Low Volume Waste)

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30	*	*
	lbs/day			0.00		
Total Suspended Solids	mg/l	GRAB	Daily Max	100	*	*
	lbs/day			0.00		
Grease and Oil	mg/l	GRAB	30-Day Avg	15	*	*
	lbs/day			0.00		
Grease and Oil	mg/l	GRAB	Daily Max	20	*	*
	lbs/day			0.00		

* NO FLOW IN MARCH 2006

Southern California Edison Monthly Report

Facility : Songs Unit 3 **Exact Sample Point :** Point of
Order No : R9-2005-0006 **Discharge**
Report Freq : Monthly **Collected By :** Songs Envir Grp
Report For : March 2006 **Analyzed By :** Songs Envir Grp
Report Due : May 01, 2006 **Signed :** 
Waste Stream : Unit 1 Radwaste **Title :** Environmental Engineer
 (Low Volume Waste)

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30	*	*
	lbs/day			0.00		
Grease and Oil	mg/l	GRAB	30-Day Avg	15	*	*
	lbs/day			0.00		
Total Suspended Solids	mg/l	GRAB	Daily Max	100	*	*
	lbs/day			0.00		
Grease and Oil	mg/l	GRAB	Daily Max	20	*	*
	lbs/day			0.00		

* NO FLOW IN MARCH 2006

Southern California Edison Monthly Report

Facility : Songs Unit 3 **Exact Sample Point :** Point of
Order No : R9-2005-0006 **Discharge**
Report Freq : Monthly **Collected By :** Songs Envir Grp
Report For : March 2006 **Analyzed By :** Songs Envir Grp
Report Due : May 01, 2006 **Signed :** 
Waste Stream : Unit 1 Yards Drains **Title :** Environmental Engineer
(Low Volume Waste)

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30	*	*
	lbs/day		Daily Max	0.00		
Grease and Oil	mg/l	GRAB	30-Day Avg	15	*	*
	lbs/day		Daily Max	0.00		

* NO FLOW IN MARCH 2006

Southern California Edison Monthly Report

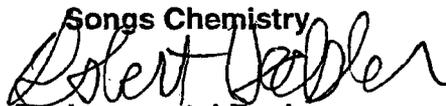
Facility :	Songs Unit 3	Exact Sample Point :	Point of Discharge
Order No :	R9-2005-0006	Collected By :	Songs Envir Grp
Report Freq :	Monthly	Analyzed By :	Songs Envir Grp
Report For :	March 2006	Signed :	
Report Due :	May 01, 2006	Title :	Environmental Engineer
Waste Stream :	Unit 1 Dewatering (Low Volume Waste)		

Parameter	Units	Sample Type	Req't Type	Req't Value	Result Value	Date & Time Collected
Total Suspended Solids	mg/l	GRAB	30-Day Avg	30	*	*
	lbs/day		Daily Max	100		
Grease and Oil	mg/l	GRAB	30-Day Avg	15	*	*
	lbs/day		Daily Max	20		
	mg/l	GRAB	Daily Max	0.00	*	*
	lbs/day			0.00	*	*

* NO FLOW IN MARCH 2006

Southern California Edison Monthly Report

Facility : Songs Unit 3
Order No : R9-2005-0006
Report Freq : Monthly
Report For : March 2006
Report Due : May 01, 2006
Waste Stream : Sewage Treatment

Exact Sample Point : Point of Discharge
Collected By : Songs Envir Grp
Analyzed By : Songs Chemistry
Signed : 
Title : Environmental Engineer

Units	Sample Type	Date/Time of Sample	Daily Max		Monthly Avg		
			Sample Value	Req't Value	Sample Value	Req Value	
<u>Sewage - - Unit 1</u>							
Inf T.S.S	mg/l lbs/day	GRAB	15:30 3/10/2006	514.0 201.5	-- --	514.0 130.4	-- --
EFF G&O	mg/l lbs/day	GRAB	15:28 3/10/2006	4.9 1.9	75 63	4.9 1.2	25 21
EFF T.S.S	mg/l lbs/day	GRAB	15:28 3/10/2006	34.0 13.3	128.5 50.4	34 8.6	128.5 32.6
Sett. Solids	ml/l	GRAB	15:28 3/10/2006	0.1	3.0	0.1	1.0
pH	Units	GRAB	15:28 3/10/2006	7.4	6.0 - 9.0	7.4	6.0 - 9.0
Turbidity	NTU	GRAB	15:28 3/10/2006	12.8	225	12.8	75
<u>Sewage - - Mesa</u>							
Inf T.S.S	mg/l lbs/day	GRAB		*	--	*	--
EFF G&O	mg/l lbs/day	GRAB		*	75 63	*	25 21
EFF T.S.S	mg/l lbs/day	GRAB		*		*	
Sett. Solids	ml/l	GRAB		*	3.0	*	1.0
pH	Units	GRAB		*	6.0 - 9.0	*	6.0 - 9.0
Turbidity	NTU	GRAB		*	225	*	75

Sewage Treatment Discharged To Unit 1 Outfall
 *Mesa Sewage Treated at Unit 1 Sewage Treatment Plant

Chlorine Sample Calculations

San Onofre Units 2 and 3 normally chlorinate six times per day for each unit at a duration of 18 minutes. The instantaneous limit for total residual chlorine is therefore calculated using the equation in the NPDES permits for each unit under discharge specification B.1 as follows:

$$\log y = -0.43(\log x) + 1.8$$

Where y = the water quality objective (in ug/l) to apply when chlorine/bromine is being discharged

x = the duration of uninterrupted chlorine/bromine discharge in minutes

The result of the above formula must be multiplied by a dilution factor to arrive at the time weighted effluent discharge limit. In the case of San Onofre Units 2 and 3, this dilution factor equals 11.

The USEPA BAT effluent limitation contained in 40 CFR 423 is 0.20 mg/l.

To obtain the instantaneous limit under discharge specification B.1 for San Onofre Units 2 and 3, you can calculate as follows:

$$\log y = -0.43(\log 18) + 1.8$$

$$y = 0.2 \text{ mg/l}$$

$$\text{The MER limit (lb/day)} = 8.34 \times C \times Q \times Z/24$$

where C = effluent concentration limit as calculated above (mg/l)

Q = discharge flowrate (MGD)

Z = total time (hours of chlorine/bromine is discharged per day)

For Unit 2 in the month of March 2006, the limit would be calculated as follows:

$$\text{MER limit (lbs/day)} = 8.34(0.11)(914.038)(2/24) = 69.88 \text{ lb/day (for sample on 3/07/06)}$$

$$\text{MER limit (lbs/day)} = 8.34(0.10)(1218.744)(2/24) = 84.70 \text{ lb/day (for sample on 3/14/06)}$$

$$\text{MER limit (lbs/day)} = 8.34(0.08)(1218.791)(2/24) = 67.76 \text{ lb/day (for sample on 3/21/06)}$$

$$\text{MER limit (lbs/day)} = 8.34(0.07)(1218.847)(2/24) = 59.30 \text{ lb/day (for sample on 3/28/06)}$$

For Unit 3 in the month of March 2006, the limit would be calculated as follows:

$$\text{MER limit (lbs/day)} = 8.34(0.05)(1218.829)(2/24) = 42.35 \text{ lb/day (for sample on 3/7/05)}$$

$$\text{MER limit (lbs/day)} = 8.34(0.04)(1218.924)(2/24) = 33.89 \text{ lb/day (for sample on 3/14/06)}$$

$$\text{MER limit (lbs/day)} = 8.34(0.04)(1218.888)(2/24) = 33.88 \text{ lb/day (for sample on 3/21/06)}$$

$$\text{MER limit (lbs/day)} = 8.34(0.05)(1218.773)(2/24) = 42.35 \text{ lb/day (for sample on 3/28/06)}$$

March 2006 In-Plant Waste Flows

Unit 1

Plant Drains	0 gal
U1 Sewage Treatment Plant	930,000 gal
Mesa Sewage Treatment Plant	0 gal
U1 Radwaste	0 gal
S/G Draindown	0 gal
Metal Cleaning	0 gal

Unit 2

HFMUD	1,475,000 gal
FFCPD	441,000 gal
Intake Sump	2,170,000 gal
Building Sump	0 gal
S/G Blowdown	20,000 gal
Hotwell Overboard	206,000 gal
Metal Cleaning	0 gal
BPS Sump	0 gal
U2 Radwaste	0 gal
Concrete Cooling Water	0 gal
U1 Radwaste	0 gal
U1 Yard Drain Sump	0 gal
Dewatering	0 gal

Unit 2 Discharge Across the Beach

No discharge across the beach occurred at Unit 2 in March 2006

Unit 3

HFMUD	1,475,000 gal
FFCPD	1,212,000 gal
Intake Sump	2,170,000 gal
Building Sump	1,550,000 gal
S/G Blowdown	0 gal
Hotwell Overboard	257,000 gal
Metal Cleaning	0 gal
BPS Sump	0 gal
U3 Radwaste	110,000 gal
Concrete Cooling Water	0 gal
U1 Radwaste	0 gal
U1 Yard Drain Sump	0 gal
Dewatering	0 gal

Unit 3 Discharge Across the Beach

3/8/06 Start: 01:00 Stop: 05:30 Flow: 24,000 gpm Volume: 6.48 MGD



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Tides for San Clemente starting with March 1, 2006.

Day		High /Low	Tide Time	Height Feet	Sunrise Sunset	Moon	Time	% Moon Visible
W	1	Low	3:30 AM	0.0	6:19 AM	Rise	7:25 AM	1
	1	High	9:32 AM	5.6	5:47 PM	Set	8:07 PM	
	1	Low	3:56 PM	-0.7				
	1	High	10:08 PM	5.3				
Th	2	Low	4:20 AM	-0.1	6:17 AM	Rise	7:55 AM	5
	2	High	10:20 AM	4.9	5:48 PM	Set	9:17 PM	
	2	Low	4:29 PM	0.0				
	2	High	10:44 PM	5.4				
F	3	Low	5:15 AM	0.0	6:16 AM	Rise	8:27 AM	12
	3	High	11:13 AM	4.0	5:49 PM	Set	10:27 PM	
	3	Low	5:00 PM	0.7				
	3	High	11:23 PM	5.2				
Sa	4	Low	6:19 AM	0.3	6:15 AM	Rise	9:02 AM	20
	4	High	12:19 PM	3.1	5:50 PM	Set	11:35 PM	
	4	Low	5:31 PM	1.5				
Su	5	High	12:08 AM	5.0	6:14 AM	Rise	9:41 AM	30
	5	Low	7:41 AM	0.5	5:50 PM			
	5	High	2:06 PM	2.5				
	5	Low	6:00 PM	2.1				
M	6	High	1:08 AM	4.7	6:12 AM	Set	12:42 AM	40
	6	Low	9:32 AM	0.5	5:51 PM	Rise	10:26 AM	
Tu	7	High	2:35 AM	4.4	6:11 AM	Set	1:43 AM	51
	7	Low	11:10 AM	0.2	5:52 PM	Rise	11:17 AM	
	7	High	6:48 PM	3.1				
	7	Low	10:05 PM	2.9				
W	8	High	4:10 AM	4.4	6:10 AM	Set	2:38 AM	61
	8	Low	12:09 PM	-0.1	5:53 PM	Rise	12:13 PM	
	8	High	7:11 PM	3.4				
	8	Low	11:33 PM	2.5				
Th	9	High	5:21 AM	4.7	6:08 AM	Set	3:26 AM	70
	9	Low	12:49 PM	-0.4	5:54 PM	Rise	1:12 PM	
	9	High	7:31 PM	3.7				
F	10	Low	12:21 AM	2.1	6:07 AM	Set	4:06 AM	78
	10	High	6:10 AM	4.9	5:54 PM	Rise	2:11 PM	
	10	Low	1:20 PM	-0.5				
	10	High	7:47 PM	3.9				
Sa	11	Low	12:55 AM	1.7	6:06 AM	Set	4:40 AM	85
	11	High	6:48 AM	5.1	5:55 PM	Rise	3:10 PM	

	11	Low	1:45 PM	-0.5				
	11	High	8:03 PM	4.0				
Su	12	Low	1:25 AM	1.3	6:05 AM	Set	5:09 AM	91
	12	High	7:21 AM	5.2	5:56 PM	Rise	4:07 PM	
	12	Low	2:06 PM	-0.5				
	12	High	8:19 PM	4.2				
M	13	Low	1:55 AM	1.0	6:03 AM	Set	5:36 AM	96
	13	High	7:51 AM	5.2	5:57 PM	Rise	5:03 PM	
	13	Low	2:27 PM	-0.4				
	13	High	8:36 PM	4.4				
Tu	14	Low	2:24 AM	0.7	6:02 AM	Set	6:00 AM	98
	14	High	8:21 AM	5.1	5:57 PM	Rise	5:58 PM	
	14	Low	2:47 PM	-0.2				
	14	High	8:55 PM	4.6				

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Typhoons, Hurricanes, etc., are NOT included in the predictions. Tidal current direction changes and tide high and low time predictions can be very different. Tide predictions are PREDICTIONS, they can be wrong so use common sense.

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Tide

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Moon

Sun

Tide



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Tides for San Clemente starting with March 14, 2006.

Day	High /Low	Tide Time	Height Feet	Sunrise Sunset	Moon	Time	% Moon Visible
Tu 14	Low	2:24 AM	0.7	6:02 AM	Set	6:00 AM	98
	High	8:21 AM	5.1	5:57 PM	Rise	5:58 PM	
	Low	2:47 PM	-0.2				
	High	8:55 PM	4.6				
W 15	Low	2:55 AM	0.6	6:01 AM	Set	6:23 AM	99
	High	8:51 AM	4.8	5:58 PM	Rise	6:54 PM	
	Low	3:07 PM	0.1				
	High	9:15 PM	4.8				
Th 16	Low	3:26 AM	0.4	5:59 AM	Set	6:46 AM	99
	High	9:22 AM	4.4	5:59 PM	Rise	7:50 PM	
	Low	3:26 PM	0.5				
	High	9:35 PM	4.9				
F 17	Low	4:00 AM	0.4	5:58 AM	Set	7:11 AM	96
	High	9:55 AM	4.0	6:00 PM	Rise	8:48 PM	
	Low	3:42 PM	0.8				
	High	9:56 PM	4.9				
Sa 18	Low	4:38 AM	0.4	5:57 AM	Set	7:39 AM	92
	High	10:32 AM	3.5	6:00 PM	Rise	9:49 PM	
	Low	3:57 PM	1.2				
	High	10:19 PM	4.9				
Su 19	Low	5:24 AM	0.5	5:55 AM	Set	8:11 AM	86
	High	11:19 AM	2.9	6:01 PM	Rise	10:52 PM	
	Low	4:07 PM	1.7				
	High	10:46 PM	4.8				
M 20	Low	6:26 AM	0.6	5:54 AM	Set	8:49 AM	78
	High	12:36 PM	2.4	6:02 PM	Rise	11:57 PM	
	Low	4:11 PM	2.0				
	High	11:26 PM	4.7				
Tu 21	Low	7:59 AM	0.6	5:53 AM	Set	9:36 AM	69
				6:03 PM			
W 22	High	12:41 AM	4.4	5:51 AM	Rise	1:00 AM	59
	Low	9:41 AM	0.4	6:03 PM	Set	10:32 AM	
Th 23	High	2:42 AM	4.4	5:50 AM	Rise	1:59 AM	48
	Low	10:55 AM	-0.1	6:04 PM	Set	11:37 AM	
	High	6:32 PM	3.2				
	Low	10:05 PM	2.8				
F 24	High	4:17 AM	4.8	5:49 AM	Rise	2:51 AM	37
	Low	11:45 AM	-0.6	6:05 PM	Set	12:48 PM	

	24	High	6:39 PM	3.6				
	24	Low	11:19 PM	2.1				
Sa	25	High	5:24 AM	5.2	5:47 AM	Rise	3:35 AM	26
	25	Low	12:25 PM	-0.9	6:06 PM	Set	2:01 PM	
	25	High	7:00 PM	4.0				
Su	26	Low	12:12 AM	1.4	5:46 AM	Rise	4:13 AM	17
	26	High	6:19 AM	5.6	6:06 PM	Set	3:15 PM	
	26	Low	1:01 PM	-1.1				
	26	High	7:26 PM	4.6				
M	27	Low	12:59 AM	0.6	5:45 AM	Rise	4:47 AM	9
	27	High	7:08 AM	5.8	6:07 PM	Set	4:28 PM	
	27	Low	1:36 PM	-1.0				
	27	High	7:55 PM	5.2				

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Tide

Moon

Sun

www.saltwatertides.com

Tide



Tides for San Clemente starting with March 28, 2006.

Day	High /Low	Tide Time	Height Feet	Sunrise Sunset	Moon Rise Set	Time	% Moon Visible
Tu 28	Low	1:49 AM	0.0	5:43 AM	Rise	5:19 AM	3
28	High	7:52 AM	5.7	6:08 PM	Set	5:40 PM	
28	Low	2:13 PM	-0.8				
28	High	8:21 PM	5.6				
W 29	Low	2:35 AM	-0.6	5:42 AM	Rise	5:50 AM	0
29	High	8:38 AM	5.3	6:09 PM	Set	6:51 PM	
29	Low	2:45 PM	-0.4				
29	High	8:53 PM	5.9				
Th 30	Low	3:21 AM	-0.8	5:41 AM	Rise	6:21 AM	0
30	High	9:26 AM	4.8	6:09 PM	Set	8:03 PM	
30	Low	3:17 PM	0.2				
30	High	9:26 PM	6.0				
F 31	Low	4:09 AM	-0.8	5:39 AM	Rise	6:55 AM	3
31	High	10:16 AM	4.1	6:10 PM	Set	9:14 PM	
31	Low	3:48 PM	0.8				
31	High	10:01 PM	5.8				

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