CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

ADDENDUM NO. 1
TO
ORDER NO. R9-2005-0006
NPDES PERMIT NO. CA0108181

WASTE DISCHARGE REQUIREMENTS
FOR
SOUTHERN CALIFORNIA EDISON

DISCHARGE TO THE PACIFIC OCEAN THROUGH
OUTFALL 003 FROM
SAN ONOFRE NUCLEAR GENERATING STATION, UNIT 3
SAN DIEGO COUNTY

The California Regional Water Quality Control Board, San Diego Region (hereinafter Regional Water Board), finds that:

1. On May 11, 2005, this Regional Water Board adopted Order No. R9-2005-0006, National Pollutant Discharge Elimination System (NPDES) permit No. CA0108181, Waste Discharge Requirements for Southern California Edison (SCE). Order No. R9-2005-0006 establishes the requirements for the discharge flow rate (30-day running average) of up to 1,287 gallons per day of combined discharges of cooling water flows and in-plant waste streams from Outfall 003 at the San Onofre Nuclear Generating Station (SONGS) Unit 3 facility located in northern San Diego County within the boundaries of Camp Pendleton, a United States Marine Corps Base.

2. By letter dated November 15, 2005, SCE requested an increase in the flow rate limitation for the Unit 1 dewatering waste stream discharge from Unit 1 to the Unit 3 combined discharge from 0.864 MGD to 3.75 MGD. An increased flow rate limitation was also requested for the Unit 1 yard drain waste stream discharge from Unit 1 to the Unit 3 combined discharge from 0.360 MGD to 8.64 MGD.

3. With the exception of the amount of flow, the characteristics of the Unit 1 dewatering waste stream will not change. The SONGS Unit 1 facility is being decommissioned. The original dewatering flow rate limitation incorporated into the permit was based on SCE's estimate of dewatering needs during the decommissioning process. As the scope of the project became more defined, SCE realized that up to 3.75 MGD would be needed to remove some Unit 1 structures.

4. With the exception of the amount of flow, the characteristics of the Unit 1 yard drain waste stream will not change. The existing Unit 1 yard drain sump is not capable of controlling stormwater from a major rain event. The sump floods and causes closure to part of the Unit 1 plant area. SCE is installing a new yard drain sump with a capacity of 8.64 MGD in order to prevent plant area closure due to flooding.

5. The total requested increase in flow rate for both dewatering and yard drain waste streams is 11.17 MGD, which accounts for less than one percent of the total allowed discharge of 1,287 MGD from Outfall 003. The flow rate and effluent limitations on the combined discharge from Outfall 003 will remain unchanged. The overall impact on the ocean from adoption of the increased dewatering and yard drain flow rate limitations is negligible.

6. Section III, paragraph C of Order No. R9-2005-0006 establishes concentration and mass-based effluent limitations for Total Suspended Solids (TSS), Oil and Grease, and toxic pollutants for the combination of all low volume, in-plant waste streams. Section III, paragraph F of Order No. R9-2005-0006 establishes concentration and mass-based effluent limitations for TSS and Oil and Grease for the individual dewatering and yard drain waste streams. Mass-based limitations increase proportionally as flow rate increases. Concentration-based limitations will not change due to increased flow rates.

7. The increased maximum mass-based effluent limitations for TSS, Oil and Grease, and toxic pollutants in the combination of all low volume, in-plant waste streams are expected to slightly lower the existing receiving water quality previously established by Order No. R9-2005-0006. This lowering of water quality, however, is not expected to be significant and is not expected to cause adverse effects to the overall receiving water. Furthermore, historical data indicates that concentrations of pollutants are typically much lower than the effluent limitations. The increase in maximum flow rates for the combination of all low volume, in-plant waste streams will correspond to less than one percent of the total allowed discharge of 1,287 MGD from Outfall 003. While the maximum allowable mass of pollutants in the in-plant waste streams will increase, this change will be immeasurable in the discharge from Outfall 003. For these reasons, the possible impacts on the Pacific Ocean resulting from the relaxation of mass emission rate limitations in the combination of all low volume, in-plant waste streams are negligible. An antidegradation analysis is not required.

8. The issuance of this Addendum is exempt from the requirements for preparation of environmental documents under the California Environmental Quality Act in accordance with Section 13389 of the Porter Cologne Water Quality Control Act.

9. This Regional Board has considered all environmental factors associated with the proposed and existing discharges.

10. This Regional Board has notified Southern California Edison and all known interested parties of its intent to modify Order No. R9-2005-0005.

11. This Regional Board, in a public hearing, heard and considered all comments pertaining to the modification of Order No. R9-2005-0005.

Addendum No. 1 to
Order No. R9-2005-0006

IT IS HEREBY ORDERED, that the following modifications shall be made to Order No. R9-2005-0006:

1. The effluent limitations for the combined low volume, in-plant waste streams in section III, paragraph C.2 shall be replaced with the following.

	30-Day Average[12/]		Daily Max.[6/]	
Constituent	**mg/L**	**lbs/day**	**mg/L**	**lbs/day**
TSS	30	6.1E+03	100	2.0E+04
O&G	15	3.0E+03	20	4.1E+03

2. The mass-based effluent limitations for the combined low volume, in-plant waste streams in section III, paragraph C.3 shall be replaced with the following.

Limitations For Protection of Marine Aquatic Life

Constituent	Units	6-Month Median[13/]	Daily Max.[6/]
Arsenic	lbs/day	1.2E+01	6.5E+01
Cadmium	lbs/day	2.2E+00	8.9E+00
Chromium (hexavalent)[10/]	lbs/day	4.5E+00	1.8E+01
Copper	lbs/day	2.6E+00	2.3E+01
Lead	lbs/day	4.5E+00	1.8E+01
Mercury	lbs/day	8.8E-02	3.6E-01
Nickel	lbs/day	1.1E+01	4.5E+01
Selenium	lbs/day	3.4E+01	1.3E+02
Silver	lbs/day	1.2E+00	5.9E+00
Zinc	lbs/day	2.8E+01	1.6E+02
Cyanide[11/]	lbs/day	2.2E+00	8.9E+00
Ammonia	lbs/day	1.3E+03	5.4E+03
Non-Chlorinated Phenolic Compounds	lbs/day	6.7E+01	2.7E+02
Chlorinated Phenolics	lbs/day	2.2E+00	8.9E+00
Endosulfan	lbs/day	2.0E-02	4.0E-02
Endrin	lbs/day	4.5E-03	8.9E-03
HCH	lbs/day	8.9E-03	1.8E-02

Limitations For Protection of Human Health – Non Carcinogens

Constituent	Units	30-Day Average[12/]
Acrolein	lbs/day	4.9E+02
Antimony	lbs/day	2.7E+03
Bis (2-chloroethoxy) methane	lbs/day	9.8E+00
Bis (2-chloroisopropyl) ether	lbs/day	2.7E+03
Chlorobenzene	lbs/day	1.3E+03
Chromium (trivalent)	lbs/day	4.2E+05
Di-n-butyl phthalate	lbs/day	7.8E+03

Dichlorobenzenes	lbs/day	1.1E+04
Diethyl phthalate	lbs/day	7.4E+04
Dimethyl phthalate	lbs/day	1.8E+06
4,6-dinitro-2-methylphenol	lbs/day	4.9E+02
2,4-dinitrophenol	lbs/day	8.9E+00
Ethylbenzene	lbs/day	9.2E+03
Fluoranthene	lbs/day	3.4E+01
Hexachlorocyclopentadiene	lbs/day	1.3E+02
Nitrobenzene	lbs/day	1.1E+01
Thallium	lbs/day	4.5E+00
Toluene	lbs/day	1.9E+05
1,1,1-trichloroethane	lbs/day	1.2E+06
Tributyltin	lbs/day	3.1E-03

Limitations For Protection of Human Health – Carcinogens

Constituent	Units	30-Day Average[12/]
Acrylonitrile	lbs/day	2.2E-01
Aldrin	lbs/day	4.9E-05
Benzene	lbs/day	1.3E+01
Benzidine	lbs/day	1.5E-04
Beryllium	lbs/day	7.4E-02
Bis (2-chloroethyl) ether	lbs/day	1.0E-01
Bis (2-ethylhexyl) phthalate	lbs/day	7.8E+00
Carbon tetrachloride	lbs/day	2.0E+00
Chlordane	lbs/day	5.1E-05
Chlorodibromomethane	lbs/day	1.9E+01
Chloroform	lbs/day	2.9E+02
DDT	lbs/day	3.8E-04
1,4-dichlorobenzene	lbs/day	4.0E+01
3,3'-dichlorobenzidine	lbs/day	1.8E-02
1,2-dichloroethane	lbs/day	6.3E+01
1,1-dichloroethylene	lbs/day	2.0E+00
Dichlorobromomethane	lbs/day	1.4E+01
Dichloromethane	lbs/day	1.0E+03
1,3-dichloropropene	lbs/day	2.0E+01
Dieldrin	lbs/day	8.9E-05
2,4-dinitrotoluene	lbs/day	5.8E+00
1,2-diphenylhydrazine	lbs/day	3.6E-01
Halomethanes	lbs/day	2.9E+02
Heptachlor	lbs/day	1.1E-04
Heptachlor epoxide	lbs/day	4.5E-05
Hexachlorobenzene	lbs/day	4.7E-04
Hexachlorobutadiene	lbs/day	3.1E+01
Hexachloroethane	lbs/day	5.6E+00

Isophorone	lbs/day	1.6E+03
N-nitrosodimethylamine	lbs/day	1.6E+01
N-nitrosodi-N-propylamine	lbs/day	8.5E-01
N-nitrosodiphenylamine	lbs/day	5.6E+00
PAHs	lbs/day	2.0E-02
PCBs	lbs/day	4.2E-05
TCDD equivalents	lbs/day	8.7E-09
1,1,2,2-tetrachloroethane	lbs/day	5.1E+00
Tetrachloroethylene	lbs/day	4.5E+00
Toxaphene	lbs/day	4.7E-04
Trichloroethylene	lbs/day	6.0E+01
1,1,2-trichloroethane	lbs/day	2.1E+01

Limitations For Protection of Human Health – Carcinogens

Constituent	Units	30-Day Average[12/]
2,4,6-trichlorophenol	lbs/day	6.5E-01
Vinyl chloride	lbs/day	8.0E+01

3. The flow rate and mass-based effluent limitations for the Unit 1 yard drain waste stream (Outfall 001-E) and Unit 1 dewatering waste stream (Outfall 001-F) in section III, paragraph F shall be replaced with the following.

Outfall Number	Low Volume Wastewater Source	Max Flow (MGD)	Units	Total Suspended Solids (TSS)		Oil & Grease	
				30-Day Avg.	Daily Max.	30-Day Avg.	Daily Max.
001-E*	Yard Drains	8.64	lbs/day	2.2E+03	7.2E+03	1.1E+03	1.4E+03
001-F*	Dewatering	3.75	lbs/day	9.4E+02	3.1E+03	4.7E+02	6.3E+02

I, John H. Robertus, Executive Officer, do hereby certify the foregoing is a full, true and correct copy of an Addendum adopted by the California Regional Water Quality Control Board, San Diego Region, on April 12, 2006.

for JOHN H. ROBERTUS
Executive Officer