CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

ORDER NO. 76 - 22

NPDES NO. CA0001350

WASTE DISCHARGE REQUIREMENTS
FOR
SAN DIEGO GAS AND ELECTRIC COMPANY
ENCINA POWER PLANT UNITS 1-5
SAN DIEGO COUNTY

THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, SAN DIEGO REGION (HEREAFTER BOARD), FINDS THAT:

1. ON DECEMBER 9, 1974, THIS REGIONAL BOARD ADOPTED ORDER NO. 74-22 (NPDES PERMIT NO. CA0001350), WASTE DISCHARGE REQUIREMENTS FOR SAN DIEGO GAS AND ELECTRIC COMPANY ENCINA POWER PLANT, UNITS 1-5, SAN DIEGO COUNTY. (HEREAFTER DISCHARGER).

2. THE ENCINA POWER PLANT IS LOCATED ADJACENT TO THE PACIFIC OCEAN AT 4600 CARLSBAD BOULEVARD, CARLSBAD, SAN DIEGO COUNTY. UNITS 1-4 ARE PRESENTLY IN OPERATION. UNIT 5 IS PRESENTLY UNDER CONSTRUCTION ADJACENT TO UNITS 1-4.

3. ORDER NO. 74-22, AN INTERIM NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT, PROVIDED REQUIREMENTS FOR THE DISCHARGE TO THE COASTAL WATERS OF THE PACIFIC OCEAN, A NAVIGABLE WATER OF THE UNITED STATES, OF ELEVATED TEMPERATURE WASTES FROM THE PRODUCTION OF ELECTRICITY IN STEAM ELECTRIC GENERATING PLANTS WITH A ONCE-THROUGH SALT WATER COOLING SYSTEMS. ORDER NO. 74-22 EXPIRES JUNE 8, 1976.

4. ON DECEMBER 5, 1975, THE DISCHARGER SUBMITTED A REPORT OF WASTE DISCHARGE IN APPLICATION FOR RENEWAL OF THE EXISTING NPDES PERMIT FOR THE DISCHARGE TO THE PACIFIC OCEAN.

5. THE EXISTING DISCHARGE FROM UNITS 1-4 IS APPROXIMATELY 550 MILLION GALLONS PER DAY. THE REPORT OF WASTE DISCHARGE DESCRIBES THE PROPOSED COMBINED DISCHARGE FROM UNITS 1-5 AS FOLLOWS:

DISCHARGE 001 (COMBINATION OF 001A, UNITS 1-5 COOLING WATER, DERIVED FROM THE PACIFIC OCEAN, 001B METAL CLEANING WASTES, 001C BOILER BLOWDOWN, AND 001D LOW VOLUME WASTES)

POINT OF DISCHARGE: LATITUDE 32°57'45" NORTH
LONGITUDE 117°16'05" WEST

AVERAGE FLOW RATE:

001 COMBINED DISCHARGE - 1149.8 MILLION GALLONS PER OPERATING DAY (50.4 M^3/SEC)

001A COOLING WATER - 1149.5 MILLION GALLONS PER OPERATING DAY (50.3 M^3/SEC)

001B METAL CLEANING WASTES - 21,200 GALLONS PER OPERATING DAY (0.00093 M^3/SEC)

001C BOILER BLOWDOWN - 90,000 GALLONS PER OPERATING DAY (0.0039 M^3/SEC)

001D LOW VOLUME WASTES - 135,000 GALLONS PER OPERATING DAY (0.0059 M^3/SEC)

AVERAGE TEMPERATURE: 73°F (22.8°C) WINTER
84°F (28.9°C) SUMMER

pH: MINIMUM 7.5; MAXIMUM 8.6

6. UNITS 1-4 DISCHARGE INTO AN OPEN DISCHARGE POND LOCATED NEAR THE SOUTHERN EDGE OF OUTER AGUA HEDIONDA LAGOON AND WATER FROM THE POND FLOWS UNDER THE COAST HIGHWAY, ACROSS THE BEACH BETWEEN JETTIES, AND INTO THE OCEAN. THE DISCHARGER PROPOSES TO DISCHARGE WASTES FROM UNIT 5 IN THE SAME MANNER.

7. THE DISCHARGER REPORTED THAT PLANT OPERATIONS RESULT IN ADDITION TO THE DISCHARGE OF SODIUM HYPOCHLORITE, SODIUM PHOSPHATE, SODIUM CHLORIDE, SODIUM HYDROXIDE, SULFURIC ACID, CALCIUM HYDROXIDE, SODIUM BICARBONATE, CALGON C-1, CALGON C-L14, CYCLOHEXAMINE, AND CALGON C-S. THE ONLY REPORTED CHEMICAL ADDITION TO DISCHARGE 001A (COOLING WATER) WAS SODIUM HYPOCHLORITE.

8. THE COMPREHENSIVE WATER QUALITY CONTROL PLAN REPORT SAN DIEGO BASIN (9), ADOPTED BY THIS REGIONAL BOARD ON MARCH 17, 1975 AND APPROVED BY THE STATE WATER RESOURCES CONTROL BOARD ON MARCH 20, 1975, ESTABLISHED WATER QUALITY OBJECTIVES FOR THE COASTAL WATERS OF THE PACIFIC OCEAN.

9. THE COMPREHENSIVE WATER QUALITY CONTROL PLAN REPORT ALSO CONTAINS THE FOLLOWING PROHIBITIONS FOR WATERS SUBJECT TO TIDAL ACTION:

> "THE DUMPING OR DEPOSITION FROM SHORE OR FROM VESSELS OF OIL, GARBAGE, TRASH OR OTHER SOLID MUNICIPAL OR AGRICULTURAL WASTES DIRECTLY INTO WATERS SUBJECT TO TIDAL ACTION OR ADJACENT TO WATERS SUBJECT TO TIDAL ACTION IN ANY MANNER WHICH MAY PERMIT IT TO BE WASHED INTO THE WATERS SUBJECT TO TIDAL ACTION IS PROHIBITED."

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NOTE: M^3/SEC = CUBIC METERS PER SECOND
°F (°C) = DEGREES FAHRENHEIT (DEGREES CENTIGRADE)

"DISCHARGE OF INDUSTRIAL WASTEWATERS EXCLUSIVE OF COOLING WATER, CLEAR BRINE OR OTHER WATERS WHICH ARE ESSENTIALLY CHEMICALLY UNCHANGED, INTO WATERS SUBJECT TO TIDAL ACTION IS PROHIBITED."

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"THE DUMPING OR DEPOSITION OF CHEMICAL WASTES, CHEMICAL AGENTS OR EXPLOSIVES INTO WATERS SUBJECT TO TIDAL ACTION IS PROHIBITED."

10. THE COMPREHENSIVE WATER QUALITY CONTROL PLAN REPORT SAN DIEGO BASIN (9), ESTABLISHED THE FOLLOWING BENEFICIAL USES FOR THE COASTAL WATERS OF THE PACIFIC OCEAN:

(A) INDUSTRIAL SERVICE SUPPLY
(B) NAVIGATION
(C) WATER CONTACT RECREATION
(D) NON-WATER CONTACT RECREATION
(E) OCEAN COMMERCIAL AND SPORTFISHING
(F) PRESERVATION OF AREAS OF SPECIAL BIOLOGICAL SIGNIFICANCE
(G) PRESERVATION OF RARE AND ENDANGERED SPECIES
(H) MARINE HABITAT
(I) FISH MIGRATION
(J) SHELLFISH HARVESTING

11. THE WATER QUALITY CONTROL PLAN, OCEAN WATERS OF CALIFORNIA ADOPTED BY THE STATE WATER RESOURCES CONTROL BOARD ON JULY 6, 1972, ESTABLISHED WATER QUALITY OBJECTIVES AND EFFLUENT LIMITATIONS FOR THE DISPOSAL OF WASTES INTO THE COASTAL WATERS OF THE PACIFIC OCEAN.

12. ON FEBRUARY 25, 1975, THE STATE WATER RESOURCES CONTROL BOARD ADOPTED A REVISED VERSION OF THE WATER QUALITY CONTROL PLAN FOR CONTROL OF TEMPERATURE IN THE COASTAL AND INTERSTATE WATERS AND ENCLOSED BAYS AND ESTUARIES OF CALIFORNIA (THERMAL PLAN). THIS PLAN CONTAINED OBJECTIVES FOR DISCHARGES OF ELEVATED TEMPERATURE WASTES (EXISTING AND NEW DISCHARGES) TO COASTAL WATERS.

13. USING THE DEFINITIONS CONTAINED IN THE THERMAL PLAN, THE DISCHARGES FROM UNITS 1-4 WOULD BE CLASSIFIED AS EXISTING DISCHARGES. THE DISCHARGE FROM UNIT 5 WOULD BE CLASSIFIED AS A NEW DISCHARGE.

14. PRIOR TO PLACING UNIT 4 INTO OPERATION, THE DISCHARGER CONDUCTED A THERMAL EFFECTS STUDY AS REQUIRED BY THE THERMAL PLAN. THE DISCHARGER CONCLUDED FROM THE THERMAL EFFECTS STUDY THAT THE THEN EXISTING DISCHARGES FROM UNITS 1 TO 3 CAUSED NO PRIOR APPRECIABLE HARM TO THE AQUATIC COMMUNITIES OF THE COASTAL WATERS OF THE PACIFIC OCEAN AND CAUSED NO SIGNIFICANT ADVERSE EFFECTS ON THE BENEFICIAL USES OF THE WATERS OF THE PACIFIC OCEAN. THE DISCHARGER FURTHER PREDICTED THAT THE INCREASED DISCHARGE FROM UNIT 4 WOULD NOT CAUSE SIGNIFICANT CHANGES IN THE EXISTING CONDITIONS OR BENEFICIAL USES. STAFF OF THE REGIONAL BOARD HAS REVIEWED THE THERMAL EFFECTS STUDY REPORTS AND CONCURRED WITH THE DISCHARGER'S CONCLUSIONS.

15. THE STATE DEPARTMENT OF FISH AND GAME HAS INFORMED THE BOARD THAT IN A STUDY, UNDERTAKEN BY A CONSULTANT FOR THE DISCHARGER, IT WAS REPORTED THAT IN JULY 1974 THE COMBINED DISCHARGE FROM UNITS 1-4 HAD ELIMINATED 2-4 ACRES OF SURFACE CANOPY OF THE NEARBY DOWNCOAST KELP BED. THE DEPARTMENT REPORTED THE LOSS OF SURFACE CANOPY OCCURRED DESPITE THE OCCURRENCE OF AN EXTENDED PERIOD OF UNUSUALLY LOW BACKGROUND OCEAN WATER TEMPERATURE, WHICH ELSEWHERE IN SOUTHERN CALIFORNIA FOSTERED AN INCREASE IN GROWTH OF KELP. THE DEPARTMENT STATED THE LOSS OF SURFACE KELP CANOPY WAS CONSIDERED A SIGNIFICANT CHANGE IN EXISTING CONDITIONS AND BENEFICIAL USES.

16. PRIOR TO REVISION OF THE THERMAL PLAN, THE DISCHARGER REQUESTED AN EXCEPTION TO ITS SPECIFIC WATER QUALITY OBJECTIVES 3.B(1) AND (4) FOR THE DISCHARGE FROM UNIT 5. SPECIFIC OBJECTIVE 3.B(1) WOULD REQUIRE THE DISCHARGE FROM UNIT 5 TO BE DIRECTED TO AN OCEAN OUTFALL RATHER THAN TO NEARSHORE WATERS VIA THE "ACROSS THE BEACH" DISCHARGE CHANNEL. SPECIFIC OBJECTIVE 3.B(4) WOULD REQUIRE THAT THE DISCHARGE FROM UNIT 5 NOT RESULT IN INCREASES IN THE NATURAL WATER TEMPERATURE EXCEEDING 4.0°F AT (A) THE SHORELINE, (B) THE SURFACE OF ANY OCEAN SUBSTRATE, OR (C) THE OCEAN SURFACE BEYOND 1000 FEET FROM THE DISCHARGE SYSTEM.

17. THIS REGIONAL BOARD'S ORDER NO. 73-29 RECOMMENDED THAT THE STATE BOARD AND THE ENVIRONMENTAL PROTECTION AGENCY CONCUR IN GRANTING THE EXCEPTIONS. THE STATE WATER RESOURCES CONTROL BOARD, BY RESOLUTION NO. 73-55, FOUND THAT FINAL ACTION REGARDING THE EXCEPTIONS COULD NOT BE TAKEN BECAUSE OF LACK OF INFORMATION. THE STATE BOARD RESOLVED THAT:

"1. THE DISCHARGER SHOULD PROCEED WITH THE DESIGN OF UNIT 5 SUCH THAT COOLING WATER FROM THE ENTIRE ENCINA COMPLEX, UNITS 1 THROUGH 5, MAY BE DIRECTED TO AN OCEAN OUTFALL IF AN OUTFALL LATER IS FOUND TO BE NECESSARY. IF, AT THE TIME CONSTRUCTION IS TO BEGIN, THE QUESTIONS OF EXCEPTIONS TO THE THERMAL PLAN HAS NOT BEEN RESOLVED, THE DISCHARGER SHOULD PROCEED WITH CONSTRUCTION OF IN-PLANT AND SHORESIDE WORKS SUCH THAT COOLING WATER FROM UNITS 4 AND 5 AND, IF FEASIBLE, THE ENTIRE ENCINA COMPLEX, MAY BE DIRECTED TO AN OCEAN OUTFALL IF AN OUTFALL LATER IS FOUND TO BE NECESSARY.

"2. THE REGIONAL BOARD SHALL SUBMIT TO THE STATE BOARD FOR APPROVAL AT THE EARLIEST POSSIBLE TIME THE FOLLOWING: (A) DRAFT WASTE DISCHARGE REQUIREMENTS FOR ENCINA UNIT 5, INCLUDING A MONITORING PROGRAM TO MEASURE THE EFFECTS OF DISCHARGES FROM THE ENCINA COMPLEX INTO NEARSHORE WATERS. THE WASTE DISCHARGE REQUIREMENTS SHALL SPECIFY PROCEDURES BY WHICH MONITORING DATA WILL BE USED TO DETERMINE THE NECESSITY FOR AND CAPACITY OF AN OCEAN OUTFALL; AND (B) DRAFT ALTERNATE OR MODIFIED WATER QUALITY OBJECTIVES FOR THE RECEIVING WATERS WHICH WILL ASSURE FULL PROTECTION OR ENHANCEMENT OF THE AQUATIC ENVIRONMENT CONSIDERING THE ULTIMATE CAPACITY OF UNITS 1 THROUGH 5, AS REQUIRED BY SECTION 3.B(4) PARAGRAPH 2 OF THE SPECIFIC WATER QUALITY OBJECTIVES AND SECTIONS 4.A, 4.C, AND 4.D OF THE GENERAL WATER QUALITY PROVISIONS OF THE THERMAL PLAN."

18. THE REVISED VERSION OF THE THERMAL PLAN REQUIRES THAT EXCEPTIONS BE GRANTED ONLY IN ACCORDANCE WITH SECTION 316(A) OF THE FEDERAL WATER POLLUTION CONTROL ACT OF 1972 AND SUBSEQUENT FEDERAL REGULATIONS. THEREFORE, FINAL RESOLUTION OF THE EXCEPTION REQUEST FOR UNIT 5 MUST BE MADE PURSUANT TO SECTION 316(A), WHICH REQUIRES THE DISCHARGER TO DEMONSTRATE THAT THE PROPOSAL WOULD ASSURE THE PROTECTION OF THE AQUATIC COMMUNITIES OF THE RECEIVING WATERS.

19. ON OCTOBER 8, 1974, THE ENVIRONMENTAL PROTECTION AGENCY PROMULGATED EFFLUENT GUIDELINES AND STANDARDS FOR DISCHARGES FROM STEAM ELECTRIC POWER GENERATING PLANTS. THE GUIDELINES ESTABLISHED EFFLUENT LIMITATIONS FOR EXISTING SOURCES AND STANDARDS OF PERFORMANCE AND PRETREATMENT STANDARDS FOR NEW SOURCES.

20. UNDER THE ENVIRONMENTAL PROTECTION AGENCY'S EFFLUENT GUIDELINES AND STANDARDS, THE ENCINA POWER PLANT, UNITS 1-4, ARE CLASSIFIED AS OLD UNITS AND UNIT 5 IS CLASSIFIED AS A GENERATING UNIT. UNITS 1-4 ARE SUBJECT TO COMPLIANCE WITH THE THERMAL PLAN. UNIT 5, HOWEVER, IS SUBJECT TO "NO DISCHARGE OF HEAT" LIMITATION.

21. ON MARCH 6, 1975, THE DISCHARGER APPLIED FOR DEVIATION FROM THE "NO DISCHARGE OF HEAT" LIMITATION, SEEKING LESS STRINGENT ALTERNATIVE EFFLUENT LIMITATIONS FOR THE UNIT 5 DISCHARGE PURSUANT TO SECTION 316(A) OF THE FEDERAL WATER POLLUTION CONTROL ACT OF 1972. THE DISCHARGER PROPOSED ALTERNATIVE EFFLUENT LIMITATIONS THAT WOULD ALLOW DISCHARGE FROM UNIT 5 VIA THE "ACROSS THE BEACH" CHANNEL USED BY UNITS 1-4. THE DISCHARGER IS CONDUCTING A STUDY, AS REQUIRED BY SECTION 316(A), TO DEMONSTRATE THAT SUCH A DISCHARGE FROM UNIT 5 WOULD ASSURE THE PROTECTION OF THE AQUATIC COMMUNITES OF THE RECEIVING WATERS.

22. THE DISCHARGER'S PROPOSED TIME SCHEDULE FOR THE 316(A) DEMONSTRATION INDICATED THAT THE RESULTS OF THE STUDY WOULD BE SUBMITTED TO THE REGIONAL BOARD IN JANUARY OF 1979. THE DISCHARGER'S TIME SCHEDULE ALSO INDICATED THAT IN THE EVENT THE REQUEST FOR ALTERNATIVE EFFLUENT LIMITATIONS WAS DENIED, ACHIEVEMENT OF THE "NO DISCHARGE OF HEAT" LIMITATION FOR UNIT 5 COULD BE ACHIEVED BEFORE JULY 1, 1981.

23. THE REGIONAL BOARD WILL ACT ON THE DISCHARGER'S REQUEST FOR EXCEPTION TO THE THERMAL PLAN, DEVIATION FROM THE ENVIRONMENTAL PROTECTION AGENCY'S EFFLUENT GUIDELINES AND REQUEST FOR ALTERNATIVE, LESS STRINGENT, EFFLUENT LIMITATIONS AFTER RECEIPT AND STAFF REVIEW AND EVALUATION OF THE RESULTS OF THE 316(A) STUDY. IF WARRANTED, ADDITIONAL MONITORING MAY BE SPECIFIED AS A PART OF THE REGIONAL BOARD'S ACTION.

24. EFFLUENT LIMITATIONS, NATIONAL STANDARDS OF PERFORMANCE, AND TOXIC AND PRETREATMENT EFFLUENT STANDARDS ESTABLISHED PURSUANT TO SECTIONS 301, 302, 303(D), 304, 307, 316(B) AND 403 OF THE FEDERAL WATER POLLUTION CONTROL ACT AND AMENDMENTS THERETO ARE APPLICABLE TO THE DISCHARGE.

25. THE BOARD, IN ESTABLISHING THE REQUIREMENTS CONTAINED HEREIN, CONSIDERED FACTORS INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

(A) PAST, PRESENT, AND PROBABLE FUTURE BENEFICIAL USES OF WATER.

(B) ENVIRONMENTAL CHARACTERISTICS OF THE HYDROGRAPHIC UNIT UNDER CONSIDERATION, INCLUDING THE QUALITY OF WATER AVAILABLE THERETO.

(C) WATER QUALITY CONDITIONS THAT COULD REASONABLY BE ACHIEVED THROUGH THE COORDINATED CONTROL OF ALL FACTORS WHICH AFFECT WATER QUALITY IN THE AREA.

(D) ECONOMIC CONSIDERATIONS.

26. THE BOARD HAS CONSIDERED ALL ENVIRONMENTAL FACTORS ASSOCIATED WITH THE DISCHARGE OF WASTE.

27. THE BOARD HAS NOTIFIED THE DISCHARGER AND ALL KNOWN INTERESTED PARTIES OF ITS INTENT TO PRESCRIBE WASTE DISCHARGE REQUIREMENTS FOR THE DISCHARGE.

28. THE BOARD IN A PUBLIC MEETING HEARD AND CONSIDERED ALL COMMENTS PERTAINING TO THE DISCHARGE.

29. THIS ORDER SHALL SERVE AS A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT PURSUANT TO SECTION 402 OF THE FEDERAL WATER POLLUTION CONTROL ACT, OR AMENDMENTS HERETO.

IT IS HEREBY ORDERED, THE SAN DIEGO GAS AND ELECTRIC COMPANY, IN ORDER TO MEET THE PROVISIONS CONTAINED IN DIVISION 7 OF THE CALIFORNIA WATER CODE AND REGULATIONS ADOPTED THEREUNDER AND THE PROVISIONS OF THE FEDERAL WATER POLLUTION CONTROL ACT, AND REGULATIONS AND GUIDELINES ADOPTED THEREUNDER, SHALL COMPLY WITH THE FOLLOWING:

A. EFFLUENT LIMITATIONS

1. DISCHARGE 001 (COMBINED DISCHARGE):

(A) AFTER JULY 1, 1981 THERE SHALL BE NO DISCHARGE OF HEAT FROM UNIT 5. (IF WARRANTED BY THE RESULTS OF THE DISCHARGER'S STUDY IN ACCORDANCE WITH SECTION 316(A) OF THE FEDERAL WATER POLLUTION CONTROL ACT OF 1972, THE REGIONAL BOARD MAY, AFTER A PUBLIC HEARING, GRANT ALTERNATIVE EFFLUENT AND RECEIVING WATER LIMITS FOR THE DISCHARGE FROM UNIT 5. PRIOR TO BECOMING EFFECTIVE ANY SUCH ALTERNATIVE EFFLUENT LIMITS MUST RECEIVE THE CONCURRENCE OF THE STATE WATER RESOURCES CONTROL BOARD).

(B) THE TEMPERATURE OF THE DISCHARGE SHALL NOT AVERAGE IN ANY 24-HOUR PERIOD MORE THAN 20°F (11.1°C) ABOVE THAT OF INCOMING BAY WATER AND IT SHALL NOT AT ANY TIME EXCEED 60°F (33.3°C) ABOVE THAT OF INCOMING BAY WATER.

(C) THE MONTHLY AVERAGE[1] OF FREE AVAILABLE CHLORINE DISCHARGED SHALL NOT EXCEED 0.2 MG/L (870 KG/DAY, 1918 LBS/DAY[3]) AND THE DAILY MAXIMUM[2] FREE AVAILABLE CHLORINE DISCHARGED SHALL NOT EXCEED 0.5 MG/L (2176 KG/DAY, 4795 LBS/DAY).

(D) DISCHARGE OF FREE AVAILABLE CHLORINE OR TOTAL RESIDUAL CHLORINE FROM ANY PLANT UNIT FOR MORE THAN TWO HOURS IN ANY ONE DAY OR FROM MORE THAN ONE UNIT IN THE PLANT AT ANY ONE TIME IS PROHIBITED.

(E) THE DISCHARGE OF POLYCHLORINATED BIPHENYLS IS PROHIBITED.

(F) THE PH OF THE EFFLUENT DISCHARGED SHALL BE WITHIN THE RANGE OF 6.0 TO 9.0.

(G) AFTER JULY 1, 1978, THE DISCHARGE SHALL NOT EXCEED THE FOLLOWING LIMITS:

CONSTITUENT	UNIT OF MEASUREMENT	CONCENTRATION NOT TO BE EXCEEDED MORE THAN 50% OF TIME	CONCENTRATION NOT TO BE EXCEEDED MORE THAN 10% OF TIME
ARSENIC	MG/L	0.01	0.02
CADMIUM	"	0.02	0.03
TOTAL CHROMIUM	"	0.005	0.01
COPPER	"	0.2	0.3
LEAD	"	0.1	0.2
MERCURY	"	0.001	0.002
NICKEL	"	0.1	0.2
SILVER	"	0.02	0.04
ZINC	"	0.3	0.5
CYANIDE	"	0.1	0.2
PHENOLIC COMPOUNDS	"	0.5	1.0
TOTAL CHLORINE RESIDUAL	"	1.0	2.0

NOTE: MG/L = MILLIGRAMS PER LITER
KG/DAY = KILOGRAMS PER DAY
LBS/DAY = POUNDS PER DAY

A LIST OF ALL FOOTNOTES REFERENCED WILL BE FOUND FOLLOWING THE LAST PAGE OF THE WASTE DISCHARGE REQUIREMENTS.

CONSTITUENT	UNIT OF MEASUREMENT	CONCENTRATION NOT TO BE EXCEEDED MORE THAN 50% OF TIME	CONCENTRATION NOT TO BE EXCEEDED MORE THAN 10% OF TIME
AMMONIA (EXPRESSED AS NITROGEN)	MG/L	40	60
TOTAL IDENTIFIABLE CHLORINATED HYDROCARBONS*	"	0.002	0.004
TOXICITY CONCENTRATION	TU	1.5	2.0
RADIOACTIVITY		NOT TO EXCEED THE LIMITS SPECIFIED IN TITLE 17, CHAPTER 5, SUBCHAPTER 4, GROUP 3, ARTICLE 5, SECTIONS 30285 AND 30287 OF THE CALIFORNIA ADMINISTRATIVE CODE	

2. DISCHARGE 001B (METAL CLEANING WASTES):

AFTER JULY 1, 1977, THE DISCHARGE OF AN EFFLUENT IN EXCESS OF THE FOLLOWING LIMITS IS PROHIBITED:

CONSTITUENTS	UNITS	MONTHLY 1/ AVERAGE	DAILY 2/ MAXIMUM
TOTAL SUSPENDED SOLIDS	MG/L	30	100
	KG/DAY	2.4	8.0
	LBS/DAY 3/	5.3	17.7
OIL AND GREASE	MG/L	15	20
	KG/DAY	1.2	1.6
	LBS/DAY	2.65	3.54
COPPER, TOTAL	MG/L	1.0	1.0
	KG/DAY	0.08	0.08
	LBS/DAY	0.18	0.18
IRON, TOTAL	MG/L	1.0	1.0
	KG/DAY	0.08	0.08
	LBS/DAY	0.18	0.18

* TOTAL IDENTIFIABLE CHLORINATED HYDROCARBONS SHALL BE MEASURED BY SUMMING THE INDIVIDUAL CONCENTRATIONS OF DDT, DDD, DDE, ALDRIN, BHC, CHLORDANE, ENDRIN, HEPTACHLOR, LINDANE, DIELDRIN, POLY-CHLORINATED BIPHENYLS, AND OTHER IDENTIFIABLE CHLORINATED HYDRO-CARBONS.

NOTE: TU = TOXICITY UNITS

3. DISCHARGE 001C (BOILER BLOWDOWN):

AFTER JULY 1, 1977, THE DISCHARGE OF AN EFFLUENT IN EXCESS OF THE FOLLOWING LIMITS IS PROHIBITED:

CONSTITUENTS	UNITS	MONTHLY 1/ AVERAGE	DAILY 2/ MAXIMUM
TOTAL SUSPENDED SOLIDS	MG/L	30	100
	KG/DAY	10.2	34.1
	LBS/DAY 3/	22.5	75.1
OIL AND GREASE	MG/L	15	20
	KG/DAY	5.1	6.8
	LBS/DAY	11.3	15.0
COPPER, TOTAL	MG/L	1.0	1.0
	KG/DAY	0.34	0.34
	LBS/DAY	0.75	0.75
IRON, TOTAL	MG/L	1.0	1.0
	KG/DAY	0.34	0.34
	LBS/DAY	0.75	0.75

4. DISCHARGE 001D (LOW VOLUME WASTES):

AFTER JULY 1, 1977, THE DISCHARGE OF AN EFFLUENT IN EXCESS OF THE FOLLOWING LIMITS IS PROHIBITED:

CONSTITUENTS	UNITS	MONTHLY 1/ AVERAGE	DAILY 2/ MAXIMUM
TOTAL SUSPENDED SOLIDS	MG/L	30	100
	KG/DAY	15.3	51.1
	LBS/DAY 3/	33.8	112.6
OIL AND GREASE	MG/L	15	20
	KG/DAY	7.7	10.2
	LBS/DAY	16.9	22.5

B. RECEIVING WATER LIMITATIONS

1. THE DISCHARGE SHALL NOT CAUSE THE FOLLOWING LIMITS TO BE EXCEEDED OUTSIDE OF THE INITIAL DILUTION ZONE[5/]:

CONSTITUENTS	UNITS	MONTHLY AVERAGE	DAILY MAXIMUM	MAXIMUM
GREASE AND OIL	MG/M^2	10.0	20.0	
FLOATING PARTICULATES	MG DRY WT/M^2	1.0	1.5	
TOXICITY	TOXICITY UNITS	---	---	0.05

2. THE DISCHARGE SHALL NOT CAUSE:

(A) FLOATING PARTICULATES OR GREASE AND OIL TO BE VISIBLE AT ANY LOCATION;

(B) AESTHETICALLY UNDESIRABLE DISCOLORATION ON THE OCEAN SURFACE AT ANY LOCATION;

(C) THE TRANSMITTANCE OF NATURAL LIGHT OUTSIDE OF THE INITIAL DILUTION ZONE[5/] TO BE REDUCED BY MORE THAN ONE STANDARD DEVIATION FROM THE MEAN DETERMINED FOR UNAFFECTED WATERS DURING THE SAME PERIOD;

(D) THE DISSOLVED OXYGEN CONCENTRATIONS OF WATERS OUTSIDE OF THE INITIAL DILUTION ZONE[5/] TO BE DEPRESSED MORE THAN 10 PERCENT FROM CONCENTRATIONS WHICH OCCUR NATURALLY;

(E) THE pH OUTSIDE OF THE INITIAL DILUTION ZONE[5/] TO BE CHANGED MORE THAN 0.2 UNITS FROM THE pH WHICH OCCURS NATURALLY;

(F) THE RATE OF DEPOSITION OF INERT SOLIDS AND THE CHARACTERISTICS OF INERT SOLIDS IN OCEAN SEDIMENTS TO BE CHANGED SUCH THAT BENTHIC COMMUNITIES ARE DEGRADED[6/];

(G) THE DISSOLVED SULFIDE CONCENTRATION OF WATERS IN AND NEAR SEDIMENTS TO BE INCREASED BY MORE THAN ONE STANDARD DEVIATION FROM THE MEAN DETERMINED UNDER NATURAL CONDITIONS;

NOTE: MG/M^2 = MILLIGRAMS PER SQUARE METER
MG DRY WT/M^2 = MILLIGRAMS DRY WEIGHT PER SQUARE METER

(H) THE CONCENTRATIONS OF HEAVY METALS, CYANIDE, PHENOLIC COMPOUNDS, TOTAL IDENTIFIABLE CHLORINATED HYDROCARBONS AND RADIOACTIVITY IN SEDIMENTS TO BE INCREASED BY MORE THAN ONE STANDARD DEVIATION FROM THE MEAN DETERMINED UNDER NATURAL CONDITIONS;

(I) THE CONCENTRATIONS OF ORGANIC MATERIALS IN MARINE SEDIMENTS TO BE INCREASED ABOVE THOSE WHICH COULD DEGRADE[6] MARINE LIFE;

(J) NUTRIENT MATERIALS IN CONCENTRATIONS THAT WOULD CAUSE OBJECTIONABLE AQUATIC GROWTHS OR DEGRADE[6] INDIGENOUS BIOTA;

(K) MARINE COMMUNITIES INCLUDING VERTEBRATE, INVERTEBRATE, AND PLANT SPECIES TO BE DEGRADED[6]; OR

(L) ALTERATION OF NATURAL TASTE, ODOR, AND COLOR OF FISH SHELLFISH OR OTHER MARINE RESOURCES USED FOR HUMAN CONSUMPTION.

C. PROVISIONS

1. THIS ORDER BECOMES EFFECTIVE ON JUNE 8, 1976

2. THIS ORDER EXPIRES ON JUNE 8, 1981, AND SAN DIEGO GAS AND ELECTRIC COMPANY MUST FILE A REPORT OF WASTE DISCHARGE IN ACCORDANCE WITH TITLE 23, CALIFORNIA ADMINISTRATIVE CODE, NOT LATER THAN 180 DAYS IN ADVANCE OF SUCH DATE AS APPLICATION FOR ISSUANCE OF NEW WASTE DISCHARGE REQUIREMENTS. IF THE DISCHARGE HEREINBEFORE DESCRIBED IS TERMINATED PRIOR TO JUNE 8, 1981, THE DISCHARGER SHALL SO NOTIFY THE REGIONAL BOARD IN WRITING. IN THAT EVENT, THE REGIONAL BOARD MAY RESCIND THIS ORDER.

3. IN THE EVENT OF ANY CHANGE IN CONTROL OR OWNERSHIP OF LAND OR WASTE DISCHARGE FACILITIES PRESENTLY OWNED OR CONTROLLED BY THE DISCHARGER, THE DISCHARGER SHALL NOTIFY THE SUCCEEDING OWNER OR OPERATOR OF THE EXISTENCE OF THIS ORDER BY LETTER, A COPY OF WHICH SHALL BE FORWARDED TO THIS BOARD.

4. THESE REQUIREMENTS ARE ESTABLISHED ONLY FOR A MAXIMUM DISCHARGE OF 1149.8 MILLION GALLONS PER DAY (50.4 M^3/SEC) OF COOLING WATER AND OTHER DISCHARGES AS DESCRIBED IN THE FINDINGS OF THIS ORDER AND THE DISCHARGER'S REPORT OF WASTE DISCHARGE.

5. THE DISCHARGE OF THERMAL WASTES SHALL COMPLY WITH LIMITATIONS NECESSARY TO ASSURE PROTECTION OF BENEFICIAL USES AND AREAS OF SPECIAL BIOLOGICAL SIGNIFICANCE.

6. NEITHER THE TREATMENT NOR THE DISCHARGE OF POLLUTANTS SHALL CREATE A POLLUTION, CONTAMINATION OR NUISANCE AS DEFINED BY THE CALIFORNIA WATER CODE.

7. THE PLANT GROUNDS AND DRAINAGE SHALL BE MAINTAINED SO THAT NO POLLUTANTS ENTER THE STORM DRAINAGE SYSTEM. STORM RUNOFF SHALL BE ROUTED TO PRECLUDE CONTACT WITH CHEMICALS OR CONTAMINANTS.

8. THIS ORDER INCLUDES ITEMS 1, 3, 5 AND 7 OF THE ATTACHED "REPORTING REQUIREMENTS."

9. THIS ORDER INCLUDES ITEMS 1, 2, 4, 5, 6, 7, 8, 9, 10 AND 11 OF THE ATTACHED "STANDARD PROVISIONS."

10. THIS ORDER INCLUDES THE ATTACHED "GENERAL MONITORING AND REPORTING PROVISIONS."

11. THE DISCHARGER SHALL COMPLY WITH THE ATTACHED MONITORING AND REPORTING PROGRAM UPON THE EFFECTIVE DATE OF THIS ORDER.

12. THE DISCHARGER SHALL COMPLY WITH ANY STANDARDS WHICH MAY BE ESTABLISHED BY THE ENVIRONMENTAL PROTECTION AGENCY PURSUANT TO SECTION 316(B) OF THE FEDERAL WATER POLLUTION CONTROL ACT.

13. THE EFFLUENT MONITORING PROGRAM FOR DISCHARGE 001 (COMBINED DISCHARGE) INCLUDES MONITORING FOR CONSTITUENTS FOR WHICH EFFLUENT LIMITATIONS HAVE NOT BEEN ESTABLISHED. IF WARRANTED BY THE RESULTS OF THE MONITORING PROGRAM, THE BOARD MAY ESTABLISH EFFLUENT LIMITATIONS FOR THESE CONSTITUENTS.

I, LEONARD BURTMAN, EXECUTIVE OFFICER, DO HEREBY CERTIFY THE FOREGOING IS A FULL, TRUE, AND CORRECT COPY OF AN ORDER ADOPTED BY THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, SAN DIEGO REGION, ON JUNE 14, 1976.

Leonard Burtman

LEONARD BURTMAN
EXECUTIVE OFFICER

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

FOOTNOTE REFERENCES FOR WASTE DISCHARGE REQUIREMENTS OF ORDER No. 76-22, (NPDES PERMIT No. CA0001350) SAN DIEGO GAS AND ELECTRIC COMPANY, ENCINA POWER PLANT UNITS 1-5.

1. THE MONTHLY AVERAGE SHALL BE THE ARITHMETIC MEAN, USING THE RESULTS OF ANALYSES OF ALL SAMPLES COLLECTED DURING ANY 30 CONSECUTIVE CALENDAR DAY PERIOD.

2. THE DAILY MAXIMUM SHALL BE DETERMINED FROM THE RESULTS OF A SINGLE GRAB SAMPLE OR FROM THE RESULT OF A SINGLE COMPOSITE SAMPLE COLLECTED OVER A PERIOD OF 24 HOURS.

3. THE WEEKLY AVERAGE SHALL BE THE ARITHMETIC MEAN, USING THE RESULTS OF ANALYSES OF ALL SAMPLES COLLECTED DURING ANY SEVEN (7) CONSECUTIVE CALENDAR DAY PERIOD.

4. THE DISCHARGE RATE IN POUNDS PER DAY IS OBTAINED FROM THE FOLLOWING CALCULATION FOR ANY CALENDAR DAY:

$$\text{DISCHARGE RATE (LBS/DAY)} = \frac{8.34}{N} \sum_{1}^{N} Q_i C_i ,$$

IN WHICH N IS THE NUMBER OF SAMPLES ANALYZED IN ANY CALENDAR DAY. Q_i AND C_i ARE THE FLOW RATE (MGD) AND THE CONSTITUENT CONCENTRATION (MG/L) RESPECTIVELY, WHICH ARE ASSOCIATED WITH EACH OF THE N GRAB SAMPLES WHICH MAY BE TAKEN IN ANY CALENDAR DAY. IF A COMPOSITE SAMPLE IS TAKEN, C_i IS THE CONCENTRATION MEASURED IN THE COMPOSITE SAMPLE, AND Q_i IS THE AVERAGE FLOW RATE OCCURRING DURING THE PERIOD OVER WHICH SAMPLES ARE COMPOSITED.

5. THE INITIAL DILUTION ZONE SHALL BE AS DEFINED IN THE WATER QUALITY CONTROL PLAN, OCEAN WATERS OF CALIFORNIA, ADOPTED BY THE STATE WATER RESOURCES CONTROL BOARD ON JULY 6, 1972.

6. DEGRADATION SHALL BE DETERMINED BY ANALYSIS OF THE EFFECTS OF WASTE DISCHARGE ON SPECIES DIVERSITY, POPULATION DENSITY, GROWTH ANOMALIES, DEBILITY, OR SUPPLANTING OF NORMAL SPECIES BY UNDESIRABLE PLANT AND ANIMAL SPECIES.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

TECHNICAL CHANGE ORDER NO. T-1

FOR

MONITORING AND REPORTING PROGRAM NO. 76-22
FOR
SAN DIEGO GAS AND ELECTRIC COMPANY
ENCINA POWER PLANT UNITS 1-5
SAN DIEGO COUNTY

(NPDES NO. CA0001350)

MONITORING OF DISCHARGE 001B (METAL CLEANING WASTES), DISCHARGE 001C (BOILER BLOWDOWN), AND DISCHARGE 001D (LOW VOLUME WASTES) IS NOT REQUIRED UNTIL COMPLETION OF MODIFICATIONS TO PROVIDE ACCESS FOR MONITORING THE ABOVE WASTE STREAMS OR JULY 1, 1977, WHICHEVER IS THE FIRST TO OCCUR.

AUTHORIZED BY Leonard Burtman
LEONARD BURTMAN
EXECUTIVE OFFICER

DATED: JULY 22, 1976

DISTRIBUTION:

✓ DISCHARGER
✓ EPA
✓ STATE BOARD
✓ CONSULTING AGENCIES
✓ FIELD STAFF
✓ FILES
✓ UNDISTRIBUTED ORDERS
✓ OTHERS (LIST BELOW)

MR. EDWARD A. PIEKARZ
ENERGY RESOURCES CONSERVATION
AND DEVELOPMENT COMMISSION
SACRAMENTO, CA

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

MONITORING AND REPORTING PROGRAM NO. 76 - 22
FOR
SAN DIEGO GAS AND ELECTRIC COMPANY
ENCINA POWER PLANT UNITS 1-5
SAN DIEGO COUNTY

A. COOLING WATER INTAKE MONITORING

CONSTITUENTS	UNITS	SAMPLE TYPE	MINIMUM FREQUENCY OF ANALYSIS	REPORTING FREQUENCY
TEMPERATURE	°F	MEASUREMENT	CONTINUOUS	MONTHLY
TOTAL SUSPENDED SOLIDS*	MG/L	GRAB	MONTHLY	"
GREASE AND OIL*	"	"	"	"
TOTAL COPPER*	"	"	"	"

B. EFFLUENT MONITORING

1. DISCHARGE 001 (COMBINED DISCHARGE)

CONSTITUENTS	UNITS	SAMPLE TYPE	MINIMUM FREQUENCY OF ANALYSIS	REPORTING FREQUENCY
FLOW	GPD	---	DAILY	MONTHLY
TEMPERATURE	°F	MEASUREMENT	CONTINUOUS	"
TOTAL SUSPENDED SOLIDS*	MG/L LBS/DAY	GRAB	MONTHLY	"
GREASE AND OIL*	MG/L LBS/DAY	"	"	"
TOTAL COPPER*	MG/L LBS/DAY	"	"	"
FREE AVAILABLE CHLORINE	MG/L LBS/DAY	"	"	"
pH	UNITS	"	"	"
TURBIDITY	JTU	24-HR. COMPOSITE	SEMIANNUAL	SEMIANNUAL

NOTE: °F = DEGREES FAHRENHEIT
MG/L = MILLIGRAMS PER LITER
GPD = GALLONS PER DAY
LBS/DAY = POUNDS PER DAY
JTU = JACKSON TURBIDITY UNITS

* COOLING WATER INTAKE SAMPLES AND EFFLUENT SAMPLES FROM DISCHARGE 001 TO BE COLLECTED SYNOPTICALLY.

CONSTITUENTS	UNITS	SAMPLE TYPE	MINIMUM FREQUENCY OF ANALYSIS	REPORTING FREQUENCY
METALS				
ARSENIC	MG/L	24-HR. COMPOSITE	SEMIANNUAL	SEMIANNUAL
CADMIUM	"	"	"	"
TOTAL CHROMIUM	"	"	"	"
LEAD	"	"	"	"
MERCURY	"	"	"	"
NICKEL	"	"	"	"
SILVER	"	"	"	"
ZINC	"	"	"	"
CYANIDE	"	"	"	"
PHENOLIC COMPOUNDS	"	"	"	"
AMMONIA (AS NITROGEN)	"	"	"	"
TOTAL IDENTIFIABLE CHLORINATED HYDROCARBONS**	"	"	"	"
TOXICITY CONCENTRATION	TU	"	"	"

2. DISCHARGE 001B (METAL CLEANING WASTES) AND DISCHARGE 001C (BOILER BLOWDOWN)

CONSTITUENTS	UNITS	SAMPLE TYPE	MINIMUM FREQUENCY OF ANALYSIS	REPORTING FREQUENCY
FLOW	GPD	---	DAILY	MONTHLY
TOTAL SUSPENDED SOLIDS	MG/L LBS/DAY	24-HR. COMPOSITE	MONTHLY	"
GREASE AND OIL	MG/L LBS/DAY	GRAB	"	"
TOTAL COPPER***	MG/L LBS/DAY	24-HR. COMPOSITE	"	"
TOTAL IRON***	MG/L LBS/DAY	"	"	"

NOTE: TU = TOXICITY UNITS

** TOTAL IDENTIFIABLE CHLORINATED HYDROCARBONS SHALL BE MEASURED BY SUMMING THE INDIVIDUAL CONCENTRATIONS OF DDT, DDD, DDE, ALDRIN, BHC, CHLORDANE, ENDRIN, HEPTACHLOR, LINDANE, DIELDRIN, POLYCHLORINATED BIPHENYLS, AND OTHER IDENTIFIABLE CHLORINATED HYDROCARBONS.

*** DURING START-UP PERIODS, TOTAL COPPER AND TOTAL IRON SHALL BE ANALYZED DAILY.

3. DISCHARGE 001D (LOW VOLUME WASTES)

CONSTITUENTS	UNITS	SAMPLE TYPE	MINIMUM FREQUENCY OF ANALYSIS	REPORTING FREQUENCY
FLOW	GPD	---	DAILY	MONTHLY
TOTAL SUSPENDED SOLIDS	MG/L LBS/DAY	24-HR. COMPOSITE	MONTHLY	"
GREASE AND OIL	MG/L LBS/DAY	GRAB	"	"

C. RECEIVING WATER MONITORING

RECEIVING WATER MONITORING SHALL BE CONDUCTED AS SPECIFIED BELOW. SAMPLING, SAMPLE PRESERVATION AND ANALYSIS, WHEN NOT SPECIFIED, SHALL BE BY METHODS APPROVED BY THE EXECUTIVE OFFICER. THE MONITORING PROGRAM MAY BE MODIFIED BY THE EXECUTIVE OFFICER AT ANY TIME.

DISPERSION AREA STATIONS: THERE ARE TEN STATIONS LOCATED ON THREE TRANSECTS IN THE DISPERSION AREA. THE TRANSECTS SHALL BE ESTABLISHED NORMAL TO THE SHORE. TRANSECTS AND STATIONS SHALL BE LOCATED AND NUMBERED AS FOLLOWS:

TRANSECT	DESCRIPTION
C	1000 FEET UPCOAST (NORTHERLY) OF THE DISCHARGE CHANNEL
D	DISCHARGE CHANNEL
E	1000 FEET DOWNCOAST (SOUTHERLY) OF THE DISCHARGE CHANNEL

STATION	TRANSECT	DESCRIPTION
C-10	C	521 FEET OFFSHORE
C-20	C	956 " "
C-30	C	2000 " "
D-10	D	565 " "
D-20	D	1129 " "
D-30	D	1600 " "
D-50	D	2800 " "
E-10	E	652 " "
E-20	E	1086 " "
E-30	E	2000 " "

REFERENCE AREA STATION: THERE IS ONE STATION LOCATED ON A TRANSECT IN THE REFERENCE AREA. THE TRANSECT SHALL BE ESTABLISHED NORMAL TO THE SHORE. THE TRANSECT AND STATION SHALL BE LOCATED AND NUMBERED AS FOLLOWS:

TRANSECT	DESCRIPTION
A	7000 FEET UPCOAST (NORTHERLY) OF THE DISCHARGE CHANNEL

STATION	TRANSECT	DESCRIPTION
A-50	A	3400 FEET OFF SHORE

1. RECEIVING WATER MONITORING SHALL BE CONDUCTED AS FOLLOWS:

DETERMINATIONS	UNITS	STATIONS	TYPE OF SAMPLE	MINIMUM FREQUENCY OF ANALYSIS
TEMPERATURE	°F	C-10 TO C-30 D-10 TO D-50 E-10 TO E-30	GRAB	SEMIANNUAL
LIGHT TRANSMITTANCE	METERS (SECCHI DISK)	C-10 TO C-30 D-10 TO D-50 E-10 TO E-30	"	"
pH	UNITS	C-10 TO C-30 D-10 TO D-50 E-10 TO E-30	"	"
DISSOLVED OXYGEN	MG/L	C-10 TO C-30 D-10 TO D-50 E-10 TO E-30	"	"
THERMAL PLUME MAPPING[1/]	---	---	---	"
KELP STAND MAPPING[2/]	---	---	---	"
KELP BED STUDY[3/]	---	---	---	"

2. RECEIVING WATER MONITORING REPORTS SHALL BE SUBMITTED TO THE BOARD SEMIANNUALLY.

3. THE EXECUTIVE OFFICER MAY MODIFY THE MONITORING SPECIFICATIONS AND STATIONS TO COINCIDE WITH THE FIVE-YEAR KELP BED STUDY PROGRAM TO BE DEVELOPED BY THE DISCHARGER UNDER AN AGREEMENT WITH THE STATE DEPARTMENT OF FISH AND GAME. THE DISCHARGER SHALL SUBMIT COPIES OF ALL REPORTS ON THE FIVE-YEAR KELP BED STUDY TO THE BOARD.

ORDERED BY Leonard Burtman

LEONARD BURTMAN
EXECUTIVE OFFICER
JUNE 14, 1976

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

REPORTING REQUIREMENTS

1. THE DISCHARGER SHALL FILE WITH THE BOARD AND THE REGIONAL ADMINISTRATOR OF THE ENVIRONMENTAL PROTECTION AGENCY TECHNICAL REPORTS ON SELF-MONITORING WORK PERFORMED ACCORDING TO THE DETAILED SPECIFICATIONS CONTAINED IN ANY MONITORING AND REPORTING PROGRAM AS DIRECTED BY THE EXECUTIVE OFFICER.

*2. THE DISCHARGER SHALL FILE A WRITTEN REPORT WITH THE BOARD WITHIN 90 DAYS AFTER THE AVERAGE DRY-WEATHER WASTE FLOW FOR ANY MONTH EQUALS OR EXCEEDS 75 PERCENT OF THE DESIGN CAPACITY OF HIS WASTE TREATMENT AND/OR DISPOSAL FACILITIES. THE DISCHARGER'S SENIOR ADMINISTRATIVE OFFICER SHALL SIGN A LETTER WHICH TRANSMITS THAT REPORT AND CERTIFIES THAT THE POLICYMAKING BODY IS ADEQUATELY INFORMED ABOUT IT. THE REPORT SHALL INCLUDE:

   AVERAGE DAILY FLOW FOR THE MONTH, THE DATE ON WHICH THE INSTANTANEOUS PEAK FLOW OCCURRED, THE RATE OF THAT PEAK FLOW, AND THE TOTAL FLOW FOR THAT DAY.

   THE DISCHARGER'S BEST ESTIMATE OF WHEN THE AVERAGE DAILY DRY-WEATHER FLOW RATE WILL EQUAL OR EXCEED THE DESIGN CAPACITY OF HIS FACILITIES.

   THE DISCHARGER'S INTENDED SCHEDULE FOR STUDIES, DESIGN, AND OTHER STEPS NEEDED TO PROVIDE ADDITIONAL CAPACITY FOR HIS WASTE TREATMENT AND/OR DISPOSAL FACILITIES BEFORE THE WASTE FLOW RATE EQUALS THE CAPACITY OF PRESENT UNITS. (REFERENCE: SECTIONS 13260, 13267(B), AND 13268, CALIFORNIA WATER CODE.)

**3. THE DISCHARGER SHALL NOTIFY THE BOARD NOT LATER THAN 180 DAYS IN ADVANCE OF IMPLEMENTATION OF ANY PLANS TO ALTER PRODUCTION CAPACITY OF THE PRODUCT LINE OF THE MANUFACTURING, PRODUCING OR PROCESSING FACILITY BY MORE THAN TEN PERCENT. SUCH NOTIFICATION SHALL INCLUDE ESTIMATES OF PROPOSED PRODUCTION RATE, THE TYPE OF PROCESS, AND PROJECTED EFFECTS ON EFFLUENT QUALITY. NOTIFICATION SHALL INCLUDE SUBMITTAL OF A NEW REPORT OF WASTE DISCHARGE AND APPROPRIATE FILING FEE.

*4. THE DISCHARGER SHALL NOTIFY THE BOARD OF (A) NEW INTRODUCTION INTO SUCH WORKS OF POLLUTANTS FROM A SOURCE WHICH WOULD BE A NEW SOURCE AS DEFINED IN SECTION 306 OF THE FEDERAL WATER POLLUTION CONTROL ACT, OR AMENDMENTS THERETO, IF SUCH SOURCE WERE DISCHARGING POLLUTANTS TO THE WATERS OF THE UNITED STATES, (B) NEW INTRODUCTIONS OF POLLUTANTS INTO SUCH WORKS FROM A SOURCE WHICH WOULD BE SUBJECT TO SECTION 301 OF THE FEDERAL WATER

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* PUBLICLY OWNED FACILITIES ONLY
** FOR NONPUBLIC FACILITIES ONLY

POLLUTION CONTROL ACT, OR AMENDMENTS THERETO, IF IT WERE DISCHARGING SUCH POLLUTANTS TO THE WATERS OF THE UNITED STATES, (C) A SUBSTANTIAL CHANGE IN THE VOLUME OR CHARACTER OF POLLUTANTS BEING INTRODUCED INTO SUCH WORKS BY A SOURCE INTRODUCING POLLUTANTS INTO SUCH WORKS AT THE TIME THE WASTE DISCHARGE REQUIREMENTS WERE ADOPTED. NOTICE SHALL INCLUDE A DESCRIPTION OF THE QUANTITY AND QUALITY OF POLLUTANTS AND THE IMPACT OF SUCH CHANGE ON THE QUANTITY AND QUALITY OF EFFLUENT FROM SUCH PUBLICLY OWNED TREATMENT WORKS. A SUBSTANTIAL CHANGE IN VOLUME IS CONSIDERED AN INCREASE OF TEN PERCENT IN THE MEAN DRY-WEATHER FLOW RATE. THE DISCHARGER SHALL FORWARD A COPY OF SUCH NOTICE DIRECTLY TO THE REGIONAL ADMINISTRATOR.

5. THE DISCHARGER SHALL FILE WITH THE BOARD A REPORT OF WASTE DISCHARGE AT LEAST 120 DAYS BEFORE MAKING ANY MATERIAL CHANGE OR PROPOSED CHANGE IN THE CHARACTER, LOCATION OR VOLUME OF DISCHARGE.

**6. THIS BOARD REQUIRES THE DISCHARGER TO FILE WITH THE BOARD, WITHIN 90 DAYS AFTER THE EFFECTIVE DATE OF THIS ORDER, A TECHNICAL REPORT ON HIS PREVENTIVE (FAIL-SAFE) AND CONTINGENCY (CLEANUP) PLANS FOR CONTROLLING ACCIDENTAL DISCHARGES, AND FOR MINIMIZING THE EFFECT OF SUCH EVENTS. THE TECHNICAL REPORT SHOULD:

IDENTIFY THE POSSIBLE SOURCES OF ACCIDENTAL LOSS, UNTREATED WASTE BYPASS, AND CONTAMINATED DRAINAGE. LOADING AND STORAGE AREAS, POWER OUTAGE, WASTE TREATMENT UNIT OUTAGE, AND FAILURE OF PROCESS EQUIPMENT, TANKS AND PIPES SHOULD BE CONSIDERED.

EVALUATE THE EFFECTIVENESS OF PRESENT FACILITIES AND PROCEDURES AND STATE WHEN THEY BECAME OPERATIONAL.

DESCRIBE FACILITIES AND PROCEDURES NEEDED FOR EFFECTIVE PREVENTIVE AND CONTINGENCY PLANS.

PREDICT THE EFFECTIVENESS OF THE PROPOSED FACILITIES AND PROCEDURES AND PROVIDE AN IMPLEMENTATION SCHEDULE CONTAINING INTERIM AND FINAL DATES WHEN THEY WILL BE CONSTRUCTED, IMPLEMENTED, OR OPERATIONAL. (REFERENCE: SECTIONS 13267(B) AND 13268, CALIFORNIA WATER CODE.)

THIS BOARD, AFTER REVIEW OF THE TECHNICAL REPORT, MAY ESTABLISH CONDITIONS WHICH IT DEEMS NECESSARY TO CONTROL ACCIDENTAL DISCHARGES AND TO MINIMIZE THE EFFECTS OF SUCH EVENTS. SUCH CONDITIONS MAY BE INCORPORATED AS PART OF THIS ORDER, UPON NOTICE TO THE DISCHARGER.

**7. THE DISCHARGER SHALL SUBMIT TO THE BOARD, BY JANUARY 30 OF EACH YEAR, AN ANNUAL SUMMARY OF THE QUANTITIES OF ALL CHEMICALS LISTED BY BOTH TRADE AND CHEMICAL NAMES, WHICH ARE USED FOR COOLING AND/OR BOILING WATER TREATMENT AND WHICH ARE DISCHARGED.

** FOR NONPUBLIC FACILITIES ONLY

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

STANDARD PROVISIONS

1. THE REQUIREMENTS PRESCRIBED HEREIN DO NOT AUTHORIZE THE COMMISSION OF ANY ACT CAUSING INJURY TO THE PROPERTY OF ANOTHER, NOR PROTECT THE DISCHARGER FROM HIS LIABILITIES UNDER FEDERAL, STATE, OR LOCAL LAWS, NOR GUARANTEE THE DISCHARGER A CAPACITY RIGHT IN THE RECEIVING WATERS.

2. THE DISCHARGE OF ANY RADIOLOGICAL, CHEMICAL, OR BIOLOGICAL WARFARE AGENT OR HIGH LEVEL RADIOLOGICAL WASTE IS PROHIBITED.

*3. THE DISCHARGER SHALL REQUIRE ANY INDUSTRIAL USER OF THE TREATMENT WORKS TO COMPLY WITH APPLICABLE SERVICE CHARGES AND TOXIC AND PRETREATMENT STANDARDS PROMULGATED IN ACCORDANCE WITH SECTIONS 204(B), 307, AND 308 OF THE FEDERAL WATER POLLUTION CONTROL ACT OR AMENDMENTS THERETO. THE DISCHARGER SHALL REQUIRE EACH INDIVIDUAL USER TO SUBMIT PERIODIC NOTICE (OVER INTERVALS NOT TO EXCEED NINE MONTHS) OF PROGRESS TOWARD COMPLIANCE WITH APPLICABLE TOXIC AND PRETREATMENT STANDARDS DEVELOPED PURSUANT TO THE FEDERAL WATER POLLUTION CONTROL ACT OR AMENDMENTS THERETO. THE DISCHARGER SHALL FORWARD A COPY OF SUCH NOTICE TO THE BOARD AND THE REGIONAL ADMINISTRATOR OF THE ENVIRONMENTAL PROTECTION AGENCY.

4. THE DISCHARGER SHALL PERMIT THE REGIONAL BOARD:

   (A) ENTRY UPON PREMISES IN WHICH AN EFFLUENT SOURCE IS LOCATED OR IN WHICH ANY REQUIRED RECORDS ARE KEPT;

   (B) ACCESS TO COPY ANY RECORDS REQUIRED TO BE KEPT UNDER TERMS AND CONDITIONS OF THIS ORDER;

   (C) INSPECTION OF MONITORING EQUIPMENT OR RECORDS, AND

   (D) SAMPLING OF ANY DISCHARGE.

5. ALL DISCHARGES AUTHORIZED BY THIS ORDER SHALL BE CONSISTENT WITH THE TERMS AND CONDITIONS OF THIS ORDER. THE DISCHARGE OF ANY POLLUTANT MORE FREQUENTLY THAN OR AT A LEVEL IN EXCESS OF THAT IDENTIFIED AND AUTHORIZED BY THIS ORDER SHALL CONSTITUTE A VIOLATION OF THE TERMS AND CONDITIONS OF THIS ORDER.

6. THE DISCHARGER SHALL MAINTAIN IN GOOD WORKING ORDER AND OPERATE AS EFFICIENTLY AS POSSIBLE ANY FACILITY OR CONTROL SYSTEM INSTALLED BY THE DISCHARGER TO ACHIEVE COMPLIANCE WITH THE WASTE DISCHARGE REQUIREMENTS.

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* PUBLICLY OWNED FACILITIES ONLY

7. COLLECTED SCREENINGS, SLUDGES, AND OTHER SOLIDS REMOVED FROM LIQUID WASTES SHALL BE DISPOSED OF AT A LEGAL POINT OF DISPOSAL, AND IN ACCORDANCE WITH THE PROVISIONS OF DIVISION 7.5 OF THE CALIFORNIA WATER CODE. FOR THAT PURPOSE OF THIS REQUIREMENT, A LEGAL POINT OF DISPOSAL IS DEFINED AS ONE FOR WHICH WASTE DISCHARGE REQUIREMENTS HAVE BEEN PRESCRIBED BY A REGIONAL WATER QUALITY CONTROL BOARD AND WHICH IS IN FULL COMPLIANCE THEREWITH.

8. AFTER NOTICE AND OPPORTUNITY FOR A HEARING, THIS ORDER MAY BE TERMINATED OR MODIFIED FOR CAUSE, INCLUDING, BUT NOT LIMITED TO:

   (A) VIOLATION OF ANY TERM OR CONDITION CONTAINED IN THIS ORDER;

   (B) OBTAINING THIS ORDER BY MISREPRESENTATION, OR FAILURE TO DISCLOSE FULLY ALL RELEVANT FACTS;

   (C) A CHANGE IN ANY CONDITION THAT REQUIRES EITHER A TEMPORARY OR PERMANENT REDUCTION OR ELIMINATION OF THE AUTHORIZED DISCHARGE.

9. IF A TOXIC EFFLUENT STANDARD OR PROHIBITION (INCLUDING ANY SCHEDULE OF COMPLIANCE SPECIFIED IN SUCH EFFLUENT STANDARD OR PROHIBITION) IS ESTABLISHED UNDER SECTION 307(A) OF THE FEDERAL WATER POLLUTION CONTROL ACT, OR AMENDMENTS THERETO, FOR A TOXIC POLLUTANT WHICH IS PRESENT IN THE DISCHARGE AUTHORIZED HEREIN AND SUCH STANDARD OR PROHIBITION IS MORE STRINGENT THAN ANY LIMITATION UPON SUCH POLLUTANT IN THIS ORDER, THE BOARD WILL REVISE OR MODIFY THIS ORDER IN ACCORDANCE WITH SUCH TOXIC EFFLUENT STANDARD OR PROHIBITION AND SO NOTIFY THE DISCHARGER.

10. THERE SHALL BE NO DISCHARGE OF HARMFUL QUANTITIES OF OIL OR HAZARDOUS SUBSTANCES, AS SPECIFIED BY REGULATION ADOPTED PURSUANT TO SECTION 311 OF THE FEDERAL WATER POLLUTION CONTROL ACT, OR AMENDMENTS THERETO.

11. IN THE EVENT THE DISCHARGER IS UNABLE TO COMPLY WITH ANY OF THE CONDITIONS OF THIS ORDER DUE TO:

   (A) BREAKDOWN OF WASTE TREATMENT EQUIPMENT;

   (B) ACCIDENTS CAUSED BY HUMAN ERROR OR NEGLIGENCE; OR

   (C) OTHER CAUSES SUCH AS ACTS OF NATURE,

THE DISCHARGER SHALL NOTIFY THE EXECUTIVE OFFICER BY TELEPHONE AS SOON AS HE OR HIS AGENTS HAVE KNOWLEDGE OF THE INCIDENT AND CONFIRM THIS NOTIFICATION IN WRITING WITHIN TWO WEEKS OF THE TELEPHONE NOTIFICATION. THE WRITTEN NOTIFICATION SHALL INCLUDE PERTINENT INFORMATION EXPLAINING REASONS FOR THE NONCOMPLIANCE AND SHALL INDICATE WHAT STEPS WERE TAKEN TO CORRECT THE PROBLEM AND THE DATES THEREOF, AND WHAT STEPS ARE BEING TAKEN TO PREVENT THE PROBLEM FROM RECURRING.

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

GENERAL MONITORING AND REPORTING PROVISIONS

GENERAL PROVISIONS FOR SAMPLING AND ANALYSIS

UNLESS OTHERWISE NOTED, ALL SAMPLING, SAMPLE PRESERVATION, AND ANALYSES SHALL CONFORM TO THE U. S. ENVIRONMENTAL PROTECTION AGENCY APPROVED TEST PROCEDURES FOR THE ANALYSIS OF POLLUTANTS DESCRIBED IN PART 136, VOLUME 38 (NO. 199) OF FEDERAL REGISTER PUBLISHED ON OCTOBER 16, 1973, OR THE LATEST EDITION OF FEDERAL REGISTER, OR AS APPROVED BY THE EXECUTIVE OFFICER. ALL ANALYSES SHALL BE PERFORMED IN A LABORATORY CERTIFIED TO PERFORM SUCH ANALYSES BY THE CALIFORNIA STATE DEPARTMENT OF PUBLIC HEALTH OR A LABORATORY APPROVED BY THE EXECUTIVE OFFICER.

EFFLUENT SAMPLES SHALL BE TAKEN DOWNSTREAM OF ANY ADDITION TO THE TREATMENT WORKS AND PRIOR TO MIXING WITH THE RECEIVING WATERS.

THE DISCHARGER SHALL CALIBRATE AND PERFORM MAINTENANCE PROCEDURES ON ALL MONITORING INSTRUMENTS AND EQUIPMENT TO INSURE ACCURACY OF MEASUREMENTS, OR SHALL INSURE THAT BOTH ACTIVITIES WILL BE CONDUCTED.

A GRAB SAMPLE IS DEFINED AS AN INDIVIDUAL SAMPLE COLLECTED IN FEWER THAN 15 MINUTES.

A COMPOSITE SAMPLE IS DEFINED AS A COMBINATION OF NO FEWER THAN EIGHT INDIVIDUAL SAMPLES OBTAINED OVER THE SPECIFIED SAMPLING PERIOD. THE VOLUME OF EACH INDIVIDUAL SAMPLE IS PROPORTIONAL TO THE DISCHARGE FLOW RATE AT THE TIME OF SAMPLING. THE SAMPLING PERIOD SHALL EQUAL THE DISCHARGE PERIOD, OR 24 HOURS, WHICHEVER PERIOD IS SHORTER.

GENERAL PROVISIONS FOR REPORTING

FOR EVERY ITEM WHERE THE REQUIREMENTS ARE NOT MET, THE DISCHARGER SHALL SUBMIT A STATEMENT OF THE ACTIONS UNDERTAKEN OR PROPOSED WHICH WILL BRING THE DISCHARGE INTO FULL COMPLIANCE WITH REQUIREMENTS AT THE EARLIEST TIME AND SUBMIT A TIMETABLE FOR CORRECTION.

BY JANUARY 30 OF EACH YEAR, THE DISCHARGER SHALL SUBMIT AN ANNUAL REPORT TO THE BOARD. THE REPORT SHALL CONTAIN BOTH TABULAR AND GRAPHICAL SUMMARIES OF THE MONITORING DATA OBTAINED DURING THE PREVIOUS YEAR. IN ADDITION, THE DISCHARGER SHALL DISCUSS THE COMPLIANCE RECORD AND THE CORRECTIVE ACTIONS TAKEN OR PLANNED WHICH MAY BE NEEDED TO BRING THE DISCHARGE INTO FULL COMPLIANCE WITH THE WASTE DISCHARGE REQUIREMENTS.

General Monitoring and Reporting Provisions

The discharger shall maintain all sampling and analytical results, including strip charts; date, exact place, and time of sampling; date analyses were performed; analyst's name; analytical techniques used; and results of all analyses. Such records shall be retained for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or when requested by the Board and the Regional Administrator of the Environmental Protection Agency. Monitoring results shall be submitted on forms provided by the Board.

Monitoring reports shall be signed by:

(a) In the case of corporations, by a principal executive officer at least of the level of vice-president or his duly authorized representative is responsible for the overall operation of the facility from which the discharge originates;

(b) In the case of a partnership, by a general partner;

(c) In the case of a sole proprietorship, by the proprietor;

(d) In the case of a municipal, state or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.

The discharger shall mail a copy of each monitoring report on the appropriate form to be supplied by the Board to:

Executive Officer
California Regional Water Quality Control Board
San Diego Region
6154 Mission Gorge Road, Suite 205
San Diego, California 92120

Regional Administrator
Environmental Protection Agency
100 California Street
San Francisco, California 94111

Attention: Permits Branch

DISCHARGER MONITORING REPORT FORM (12-74)

DISCHARGER SAN DIEGO GAS & ELECTRIC CO. - ENCINA ORDER NO. 76-22 NPDES NO. CA0001350

DISCHARGE NO. INTAKE & 001 SAMPLE LOCATION

REPORT FREQUENCY MONTHLY DUE

FOR REPORTING PERIOD

CONSTITUENTS	UNITS	SAMPLE TYPE	DAY/TIME OF SAMPLE	MONTHLY AVERAGE SAMPLE VALUE	MONTHLY AVERAGE REQUIRED VALUE	DAILY MAXIMUM SAMPLE VALUE	DAILY MAXIMUM REQUIRED VALUE
INTAKE 1/							
TOTAL SUSPENDED SOLIDS	MG/L	GRAB	✓	✓			
GREASE AND OIL	"	"	✓	✓			
TOTAL COPPER	"	"	✓	✓			
DISCHARGE 001							
TOTAL SUSPENDED SOLIDS	MG/L	GRAB	✓	✓			
	LBS/DAY	"	✓	✓			
GREASE AND OIL	MG/L	"	✓	✓			
	LBS/DAY	"	✓	✓			
TOTAL COPPER	MG/L	"	✓	✓			
	LBS/DAY	"	✓	✓			
FREE AVAILABLE CHLORINE	MG/L	"	✓	✓	0.2	✓	0.5
	LBS/DAY	"	✓	✓	1918	✓	4795
pH	UNITS	"	✓	✓	6.0 TO 9.0	✓	

1/ COOLING WATER INTAKE SAMPLES AND EFFLUENT SAMPLES FOR DISCHARGE 001 TO BE COLLECTED SYNOPTICALLY.

DISCHARGER MONITORING REPORT FORM (12-74)

DISCHARGER SAN DIEGO GAS & ELECTRIC CO. - ENCINA ORDER NO. 76-22 NPDES NO. CA0001350

DISCHARGE NO. 001B, C SAMPLE LOCATION

REPORT FREQUENCY MONTHLY DUE

FOR REPORTING PERIOD

CONSTITUENTS	UNITS	SAMPLE TYPE	DAY/TIME OF SAMPLE	MONTHLY AVERAGE SAMPLE VALUE	MONTHLY AVERAGE REQUIRED VALUE 1/	DAILY MAXIMUM SAMPLE VALUE	DAILY MAXIMUM REQUIRED VALUE 1/
DISCHARGE 001B							
TOTAL SUSPENDED SOLIDS	MG/L	24-HR. COMPOSITE	✓	✓	30	✓	100
	LBS/DAY	"	✓	✓	5.3	✓	17.7
GREASE AND OIL	MG/L	GRAB	✓	✓	15	✓	20
	LBS/DAY	"	✓	✓	2.65	✓	3.54
TOTAL COPPER 2/	MG/L	24-HR. COMPOSITE	✓	✓	1.0	✓	1.0
	LBS/DAY	"	✓	✓	0.18	✓	0.18
TOTAL IRON 2/	MG/L	24-HR. COMPOSITE	✓	✓	1.0	✓	1.0
	LBS/DAY	"	✓	✓	0.18	✓	0.18
DISCHARGE 001C							
TOTAL SUSPENDED SOLIDS	MG/L	24-HR. COMPOSITE	✓	✓	30	✓	100
	LBS/DAY	"	✓	✓	22.5	✓	75.1
GREASE AND OIL	MG/L	GRAB	✓	✓	15	✓	20
	LBS/DAY	"	✓	✓	11.3	✓	15.0

1/ AFTER JULY 1, 1977

2/ DURING START-UP PERIODS, ANALYZE DAILY.

DISCHARGER MONITORING REPORT FORM (12-74)

DISCHARGER SAN DIEGO GAS & ELECTRIC CO. - ENCINA ORDER NO. 76-22 NPDES NO. CA0001350

DISCHARGE NO. 001C, D SAMPLE LOCATION

REPORT FREQUENCY MONTHLY DUE

FOR REPORTING PERIOD

				Monthly Average		Daily Maximum	
Constituents	Units	Sample Type	Day/Time of Sample	Sample Value	Required[1/] Value	Sample Value	Required[1/] Value
Discharge 001C (contd)							
Total Copper	mg/L	24-hr. composite	✓	✓	1.0	✓	1.0
	lbs/day	"	✓	✓	0.75	✓	0.75
Total Iron	mg/L	24-hr. composite	✓	✓	1.0	✓	1.0
	lbs/day	"	✓	✓	0.75	✓	0.75
Discharge 001D							
Total Suspended Solids	mg/L	24-hr. composite	✓	✓	30	✓	100
	lbs/day	"	✓	✓	33.8	✓	112.6
Grease and Oil	mg/L	grab	✓	✓	15	✓	20
	lbs/day	"	✓	✓	16.9	✓	22.5

1/ After July 1, 1977

DISCHARGER MONITORING REPORT FORM (4-73)

DAILY LOG

DISCHARGER SAN DIEGO GAS & ELECTRIC CO.-ENCINA ADDRESS

MONTH/YEAR ORDER/~~RESOLUTION~~ 75-22 REPORT FREQUENCY MONTHLY

DATE	FLOW (GPD)				AVERAGE Δ TEMPERATURE (°F)1/ NOTE: ΔT = 001T - INTAKE T		
	DISCHARGE 001 ✓	DISCHARGE 001B ✓	DISCHARGE 001C ✓	DISCHARGE 001D ✓	DAILY AVERAGE ✓ (REQT.=20)	DAILY MAXIMUM ✓ (REQT.=60)	
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
AVERAGE	✓	✓	✓	✓	✓	✓	

1/ SUMMARIZE DAILY VALUES HERE. ENCLOSE HOURLY VALUES WITH REPORT.

SIGNED ✓ DATE ✓

DISCHARGE MONITORING REPORT FORM (4-73)

DISCHARGER SAN DIEGO GAS & ELECTRIC CO. - ENCINA

EXACT SAMPLE POINT ✓

REPORT FREQUENCY SEMIANNUAL

SAMPLES COLLECTED BY ✓

REPORT FOR

REPORT DUE

SAMPLES ANALYZED BY ✓

SAMPLE SOURCE RECEIVING WATER

SIGNED ✓

PARAMETER	UNITS	SAMPLE	DATE/TIME SAMPLED	SAMPLE VALUE	REQT.	SAMPLE	DATE/TIME SAMPLED	SAMPLE VALUE	REQT.
TEMPERATURE	°F	C-10	✓	✓					
		C-20	✓	✓					
		C-30	✓	✓					
		D-10	✓	✓					
		D-20	✓	✓					
		D-30	✓	✓					
		D-40	✓	✓					
		D-50	✓	✓					
		E-10	✓	✓					
		E-20	✓	✓					
		E-30	✓	✓					
LIGHT TRANSMITTANCE	METERS	C-10	✓	✓					
		C-20	✓	✓					
		C-30	✓	✓					
		D-10	✓	✓					
		D-20	✓	✓					

DISCHARGE MONITORING REPORT FORM (4-73)

DISCHARGER SAN DIEGO GAS & ELECTRIC CO. - ENCINA

EXACT SAMPLE POINT ✓

REPORT FREQUENCY SEMIANNUAL

SAMPLES COLLECTED BY ✓

REPORT FOR _____ REPORT DUE _____

SAMPLES ANALYZED BY ✓

SAMPLE SOURCE RECEIVING WATER

SIGNED ✓

PARAMETER	UNITS	SAMPLE	DATE/TIME SAMPLED	SAMPLE VALUE	REQT.	SAMPLE	DATE/TIME SAMPLED	SAMPLE VALUE	REQT.
LIGHT TRANSMITTANCE (CONT'D)	METERS	D-30	✓	✓					
		D-40	✓	✓					
		D-50	✓	✓					
		E-10	✓	✓					
		E-20	✓	✓					
		E-30	✓	✓					
pH	UNITS	C-10	✓	✓					
		C-20	✓	✓					
		C-30	✓	✓					
		D-10	✓	✓					
		D-20	✓	✓					
		D-30	✓	✓					
		D-40	✓	✓					
		D-50	✓	✓					
		E-10	✓	✓					
		E-20	✓	✓					
		E-30	✓	✓					

DISCHARGER SAN DIEGO GAS & ELECTRIC CO. - ENCINA

EXACT SAMPLE POINT ✓

REPORT FREQUENCY SEMIANNUAL

SAMPLES COLLECTED BY ✓

REPORT FOR _____ REPORT DUE _____

SAMPLES ANALYZED BY ✓

SAMPLE SOURCE RECEIVING WATER

SIGNED ✓

PARAMETER	UNITS	SAMPLE	DATE/TIME SAMPLED	SAMPLE VALUE	REQT.	SAMPLE	DATE/TIME SAMPLED	SAMPLE VALUE	REQT.
DISSOLVED OXYGEN	MG/L	C-10	✓	✓					
		C-20	✓	✓					
		C-30	✓	✓					
		D-10	✓	✓					
		D-20	✓	✓					
		D-30	✓	✓					
		D-40	✓	✓					
		D-50	✓	✓					
		E-10	✓	✓					
		E-20	✓	✓					
		E-30	✓	✓					

NOTE: INCLUDE THERMAL PLUME MAPPING, KELP STAND MAPPING, KELP BED STUDY WITH EACH REPORT.

DISCHARGER MONITORING REPORT FORM (12-74)

DISCHARGER SAN DIEGO GAS & ELECTRIC CO.-ENCINA ORDER NO. 76-22 NPDES NO. CA0001350

DISCHARGE NO. 001 SAMPLE LOCATION

REPORT FREQUENCY SEMIANNUAL DUE

FOR REPORTING PERIOD

				CONCENTRATIONS NOT TO BE EXCEEDED MORE THAN:			
				50% OF TIME		10% OF TIME	
CONSTITUENTS	UNITS	SAMPLE TYPE	DAY/TIME OF SAMPLE	SAMPLE VALUE	REQUIRED VALUE 1/	SAMPLE VALUE	REQUIRED VALUE 1/
DISCHARGE 001							
TURBIDITY	JTU	24-HR. COMPOSITE	✓	✓			
METALS:							
ARSENIC	MG/L	24-HR. COMPOSITE	✓	✓	0.01	✓	0.02
CADMIUM	"	"	✓	✓	0.02	✓	0.03
TOTAL CHROMIUM	"	"	✓	✓	0.005	✓	0.01
LEAD	"	"	✓	✓	0.1	✓	0.2
MERCURY	"	"	✓	✓	0.001	✓	0.002
NICKEL	"	"	✓	✓	0.1	✓	0.2
SILVER	"	"	✓	✓	0.02	✓	0.04
ZINC	"	"	✓	✓	0.3	✓	0.5
CYANIDE	MG/L	24-HR. COMPOSITE	✓	✓	0.1	✓	0.2
PHENOLIC COMPOUNDS	"	"	✓	✓	0.5	✓	1.0
AMMONIA (AS N)	"	"	✓	✓	40	✓	60

1/ AFTER JULY 1, 1978

DISCHARGER MONITORING REPORT FORM (12-74)

DISCHARGER SAN DIEGO GAS & ELECTRIC CO.-ENCINA ORDER NO. 6-22 NPDES NO. CA0001350

DISCHARGE NO. 001 SAMPLE LOCATION

REPORT FREQUENCY SEMIANNUAL DUE

FOR REPORTING PERIOD

				CONCENTRATIONS NOT TO BE EXCEEDED MORE THAN:			
				50% OF TIME		10% OF TIME	
CONSTITUENTS	UNITS	SAMPLE TYPE	DAY/TIME OF SAMPLE	SAMPLE VALUE	REQUIRED 1/ VALUE	SAMPLE VALUE	REQUIRED 1/ VALUE
DISCHARGE 001							
TOTAL IDENTIFIABLE CHLORINATED HYDROCARBONS	MG/L	24-HR. COMPOSITE	✓	✓	0.002	✓	0.004
TOXICITY CONCENTRATION	TU	"	✓	✓	1.5	✓	2.0

1/ AFTER JULY 1, 1978

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN DIEGO REGION

ADDENDUM NO. 1 TO ORDER NO. 76 - 22

NPDES NO. CA0001350

AN ADDENDUM MODIFYING THE REQUIREMENTS
FOR
SAN DIEGO GAS AND ELECTRIC COMPANY
ENCINA POWER PLANT UNITS 1-5
SAN DIEGO COUNTY

THE CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, SAN DIEGO REGION (HEREAFTER REGIONAL BOARD), FINDS THAT:

1. ON JUNE 14, 1976, THIS REGIONAL BOARD ADOPTED ORDER NO. 76-22 (NPDES NO. CA0001350), WASTE DISCHARGE REQUIREMENTS FOR SAN DIEGO GAS AND ELECTRIC COMPANY ENCINA POWER PLANT UNITS 1-5 SAN DIEGO COUNTY.

2. THE REQUIREMENTS OF ORDER NO. 76-22 WERE ADOPTED PURSUANT TO EFFLUENT GUIDELINES AND STANDARDS OF THE ENVIRONMENTAL PROTECTION AGENCY (EPA). UNDER THE EPA GUIDELINES AND STANDARDS, ENCINA POWER PLANT, UNITS 1-4 WERE CLASSIFIED AS OLD UNITS WHILE UNIT 5 WAS CLASSIFIED AS A GENERATING UNIT. AS SUCH, UNITS 1-4 WERE SUBJECT TO THE REQUIREMENTS OF THE STATE WATER RESOURCES CONTROL BOARD'S THERMAL PLAN WHILE UNIT 5 WAS SUBJECT TO A "NO DISCHARGE OF HEAT" LIMITATION.

3. EFFLUENT LIMITATION A.1(A) OF ORDER NO. 76-22 IS AS FOLLOWS:

   "AFTER JULY 1, 1981 THERE SHALL BE NO DISCHARGE OF HEAT FROM UNIT 5. (IF WARRANTED BY THE RESULTS OF THE DISCHARGER'S STUDY IN ACCORDANCE WITH SECTION 316(A) OF THE FEDERAL WATER POLLUTION CONTROL ACT OF 1972, THE REGIONAL BOARD MAY, AFTER A PUBLIC HEARING, GRANT ALTERNATIVE EFFLUENT AND RECEIVING WATER LIMITS FOR THE DISCHARGE FROM UNIT 5. PRIOR TO BECOMING EFFECTIVE ANY SUCH ALTERNATIVE EFFLUENT LIMITS MUST RECEIVE THE CONCURRENCE OF THE STATE WATER RESOURCES CONTROL BOARD.)"

4. ON MARCH 6, 1975, THE DISCHARGER APPLIED FOR A DEVIATION FROM THE "NO DISCHARGE OF HEAT" LIMITATION AND WAS CONDUCTING A STUDY PURSUANT TO SECTION 316(A) OF THE FEDERAL WATER POLLUTION CONTROL ACT WHEN ORDER NO. 76-22 WAS ADOPTED. THE 316(A) STUDY WAS TO DEMONSTRATE THAT LESS STRINGENT EFFLUENT LIMITATIONS WOULD ASSURE THE PROTECTION OF THE AQUATIC COMMUNITIES OF THE RECEIVING WATERS. THE RESULTS OF THE 316(A) STUDY WERE TO BE SUBMITTED TO THE REGIONAL BOARD IN JANUARY 1979.

5. BY LETTER DATED MARCH 31, 1977, MR. B. W. COLSTON, VICE PRESIDENT, PROJECT MANAGEMENT FOR SAN DIEGO GAS AND ELECTRIC COMPANY, REQUESTED THAT EFFLUENT LIMITATION A.1(A) (ABOVE) BE DELETED FROM ORDER NO. 76-22: MR. COLSTON REPORTED THAT ON JULY 16, 1976, THE UNITED STATES COURT OF APPEALS, THE FOURTH CIRCUIT, IN THE APPALACHIAN POWER DECISION, REMANDED TO EPA CERTAIN PORTIONS OF THE OCTOBER 8, 1974 STEAM ELECTRIC POWER GENERATION GUIDELINES.

6. THE REMAND BECAME EFFECTIVE ON DECEMBER 8, 1976 AND INCLUDED SECTION 423.13 (L) AND (M) OF PART 423, STEAM ELECTRIC POWER GENERATING POINT SOURCE CATEGORY. SECTION 423.13 (L) AND (M) ESTABLISHED THE NO DISCHARGE OF HEAT, AFTER JULY 1, 1981, REQUIREMENT AS CONTAINED IN ORDER NO. 76-22.

7. THE REGIONAL BOARD HAS NOTIFIED THE DISCHARGER AND ALL KNOWN INTERESTED PARTIES OF ITS INTENT TO RESCIND THE NO DISCHARGE OF HEAT PORTIONS OF THE WASTE DISCHARGE REQUIREMENTS.

8. THE REGIONAL BOARD IN A PUBLIC MEETING HEARD AND CONSIDERED ALL COMMENTS PERTAINING TO THE PROPOSED ACTION.

IT IS HEREBY ORDERED, THAT EFFLUENT LIMITATION A.1(A) IS MODIFIED TO THE FOLLOWING:

"THE DISCHARGE OF HEAT FROM UNIT 5 SHALL COMPLY WITH THE PROVISIONS OF THE WATER QUALITY CONTROL PLAN FOR CONTROL OF TEMPERATURE IN THE COASTAL AND INTERSTATE WATERS AND AND ENCLOSED BAYS AND ESTUARIES OF CALIFORNIA (THERMAL PLAN) AS AMENDED BY THE STATE WATER RESOURCES CONTROL BOARD ON SEPTEMBER 18, 1975. THE THERMAL DISCHARGE FROM UNIT 5 SHALL COMPLY WITH THE FOLLOWING SPECIFIC WATER QUALITY OBJECTIVES:

1. THE THERMAL WASTES SHALL BE DISCHARGED TO THE OPEN OCEAN AWAY FROM THE SHORELINE TO ACHIEVE DISPERSION THROUGH THE VERTICAL WATER COLUMN.

2. THE THERMAL WASTES SHALL BE DISCHARGED A SUFFICIENT DISTANCE FROM AREAS OF SPECIAL BIOLOGICAL SIGNIFICANCE TO ASSURE THE MAINTENANCE OF NATURAL TEMPERATURE IN THESE AREAS.

3. THE MAXIMUM TEMPERATURE OF THE THERMAL WASTE DISCHARGE SHALL NOT EXCEED THE NATURAL RECEIVING WATER TEMPERATURE BY MORE THAN 20°F.

4. THE DISCHARGE OF THERMAL WASTES SHALL NOT RESULT IN INCREASES IN THE NATURAL WATER TEMPERATURE EXCEEDING 4°F AT (A) THE SHORELINE, (B) THE SURFACE OF ANY OCEAN SUBSTRATE, OR (C) THE OCEAN SURFACE BEYOND 1,000 FEET FROM THE DISCHARGE SYSTEM. THE SURFACE TEMPERATURE LIMITATION SHALL BE MAINTAINED AT LEAST 50 PERCENT OF THE DURATION OF ANY COMPLETE TIDAL CYCLE.

IF WARRANTED BY THE RESULTS OF THE DISCHARGER'S STUDY IN ACCORDANCE WITH SECTION 316(A) OF THE FEDERAL WATER POLLUTION CONTROL ACT OF 1972, THE REGIONAL BOARD MAY, AFTER A PUBLIC HEARING, GRANT ALTERNATIVE EFFLUENT AND RECEIVING WATER LIMITS FOR THE DISCHARGE FROM UNIT 5. PRIOR TO BECOMING EFFECTIVE ANY SUCH ALTERNATIVE EFFLUENT LIMITS MUST RECEIVE THE CONCURRENCE OF THE STATE WATER RESOURCES CONTROL BOARD."

I, LEONARD BURTMAN, 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 JUNE 27, 1977.

Leonard Burtman

LEONARD BURTMAN
EXECUTIVE OFFICER