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SUBJECT: Forwards application for NPDES permit renewal.

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Southern California Edison Company

SAN ONOFRE NUCLEAR GENERATING STATION

P. O. BOX 128

SAN CLEMENTE, CALIFORNIA 92672

H. E. MORGAN
STATION MANAGER

TELEPHONE
(714) 368-6241

January 14, 1987

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

Gentlemen:

Subject: Docket No. 50-206
Renewal of NPDES Permit
San Onofre Nuclear Generating Station, Unit 1

Pursuant to Section 6.16.2.c of the San Onofre Unit 1 Technical Specifications a copy of the application for renewal of the NPDES Permit for the subject facility is provided as an enclosure.

If you have any questions regarding the enclosure, please call me.

Sincerely,

H E Morgan

Enclosure

cc: J. B. Martin, Regional Administrator, NRC Region V
F. R. Huey (USNRC Senior Resident Inspector, Units 1, 2, and 3)
R. F. Dudley, NRR Unit 1 Project Manager

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Southern California Edison Company

P. O. BOX 800

2244 WALNUT GROVE AVENUE

ROSEMEAD, CALIFORNIA 91770

NADER N. MANSOUR
MANAGER OF
ENVIRONMENTAL REGULATION

TELEPHONE
(818) 302-1442

January 6, 1987

Mr. Ladin Delaney, Executive Officer
California Regional Water Quality
Control Board, San Diego Region
6154 Mission Gorge Road, Suite 205
San Diego, CA 92120-1939

Dear Mr. Delaney:

SUBJECT: RENEWAL OF SONGS UNIT 1 NPDES PERMIT (No. CA0001228)

Southern California Edison Company (SCE) submits the enclosed application materials for renewal of NPDES Permit No. CA0001228 for the San Onofre Nuclear Generating Station (SONGS) Unit 1. The enclosures include the following:

- Original and thirteen copies of EPA Forms 1 and 2C.
- Filing fee check for $10,000.
- Statement of disclosure of contributions to Regional Board members.

Please contact Mr. David Kay of my staff at (818) 302-2149 if you have any questions on this matter.

Sincerely,

eNader N. Mansour

Enclosures

Statement of Disclosure

I hereby certify that the Southern California Edison Company did not provide any contribution in excess of $250.00 to any Regional Water Quality Control Board member, for use in any state, federal or local election, within 12 months of the date of this application for waste discharge requirements.

G J Bjorklund 1/6/87

Glenn J. Bjorklund, Vice President Date

(fill-in areas are spaced for elite type, i.e., [illegible] characters/inch).

Form Approved OMB No. 158-R0175

FORM 1 GENERAL

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER

F CA 0 0 0 1 2 2 8 D

LABEL ITEMS

I. EPA I.D. NUMBER

III. FACILITY NAME

V. FACILITY MAILING ADDRESS

VI. FACILITY LOCATION

PLEASE PLACE LABEL IN THIS SPACE

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill—in area below. Also, if any of the preprinted data is absent *(the area to the left of the label space lists the information that should appear)*, please provide it in the proper fill—in area*(s)* below. If the label is complete and correct, you need not complete Items I, III, V, and VI *(except VI-B which must be completed regardless)*. Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold—faced terms.

SPECIFIC QUESTIONS	YES	NO	FORM ATTACHED	SPECIFIC QUESTIONS	YES	NO	FORM ATTACHED
A. Is this facility a **publicly owned treatment works** which results in a **discharge** to **waters of the U.S.**? (FORM 2A)		X		B. Does or will this facility *(either existing or proposed)* include a **concentrated animal feeding operation** or **aquatic animal production facility** which results in a **discharge to waters of the U.S.**? (FORM 2B)		X	
C. Is this a facility which currently results in **discharges** to **waters of the U.S.** other than those described in A or B above? (FORM 2C)	X			D. Is this a proposed facility *(other than those described in A or B above)* which will result in a **discharge** to **waters of the U.S.**? (FORM 2D)		X	
E. Does or will this facility treat, store, or dispose of **hazardous wastes**? (FORM 3)		X		F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
I. Is this facility a proposed **stationary source** which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X		J. Is this facility a proposed **stationary source** which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an **attainment** area? (FORM 5)		X	

III. NAME OF FACILITY

1 SKIP SAN ONOFRE NUCLEAR GENERATING STATION (SONGS)

IV. FACILITY CONTACT

A. NAME & TITLE (last, first, & title)	B. PHONE (area code & no.)
2 KAY, DAVID ENV. SPECIALIST	213 302 3896

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX

3 PO BOX 128

B. CITY OR TOWN	C. STATE	D. ZIP CODE
4 SAN CLEMENTE	CA	92672

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER

5 ADJACENT HWY 5 S/E BASILONE RD

B. COUNTY NAME

SAN DIEGO

C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE (if known)
6 SAN CLEMENTE	CA	92672	

VII. SIC CODES (4-digit, in order of priority)

A. FIRST	B. SECOND
4911 (specify) ELECTRIC SERVICES	(specify)
C. THIRD	**D. FOURTH**
(specify)	(specify)

VIII. OPERATOR INFORMATION

A. NAME

SOUTHERN CALIFORNIA EDISON COMPANY

B. Is the name listed in Item VIII-A also the owner? ☒ YES ☐ NO

C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)

F = FEDERAL, S = STATE, P = PRIVATE, M = PUBLIC (other than federal or state), O = OTHER (specify)

P (specify)

D. PHONE (area code & no.) A 818 302 3896

E. STREET OR P.O. BOX

P O B O X 8 0 0

F. CITY OR TOWN

R O S E M E A D

G. STATE C A

H. ZIP CODE 9 1 7 7 0

IX. INDIAN LAND

Is the facility located on Indian lands? ☐ YES ☒ NO

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES (Discharges to Surface Water) C A 0 0 0 1 2 2 8	**D. PSD** (Air Emissions from Proposed Sources)
B. UIC (Underground Injection of Fluids) U	**E. OTHER** (specify) C A 0 1 0 8 1 8 1 (specify) NPDES
C. RCRA (Hazardous Wastes) R	**E. OTHER** (specify) C A 0 1 0 8 0 7 3 (specify) NPDES

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property bounderies. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS (provide a brief description)

To provide electricity to customers in central and southern California.

*Item VIII.B - Ownership of SONGS is as follows:

1. SONGS Unit 1: Southern California Edison Co. - 80%
   San Diego Gas and Electric - 20%

   SONGS Units 2 & 3: Southern California Edison Co. - 76.55%
   San Diego Gas & Electric - 20%
   City of Riverside - 1.79%
   City of Anaheim - 1.66%

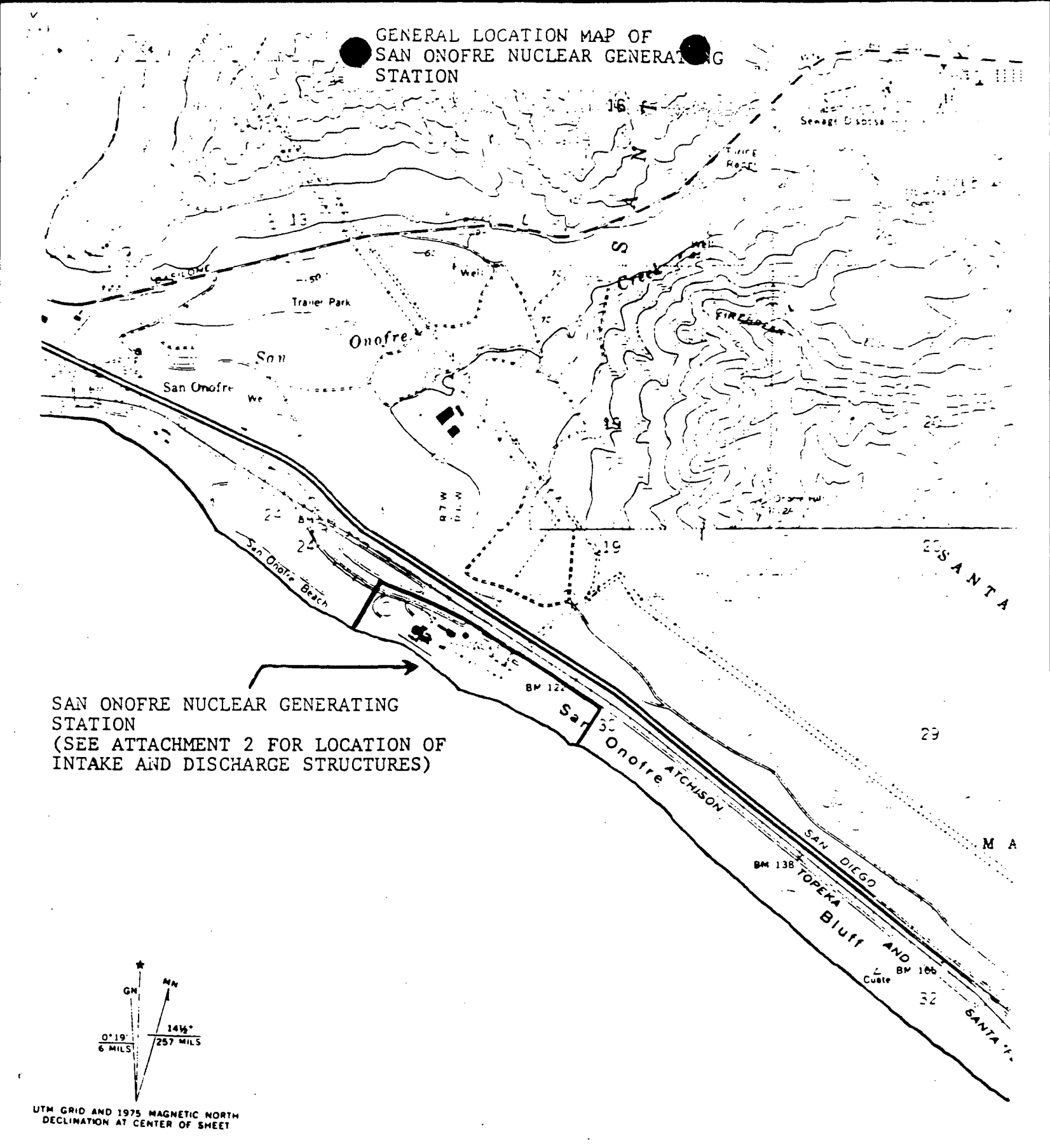
XIII. CERTIFICATION (see instructions)

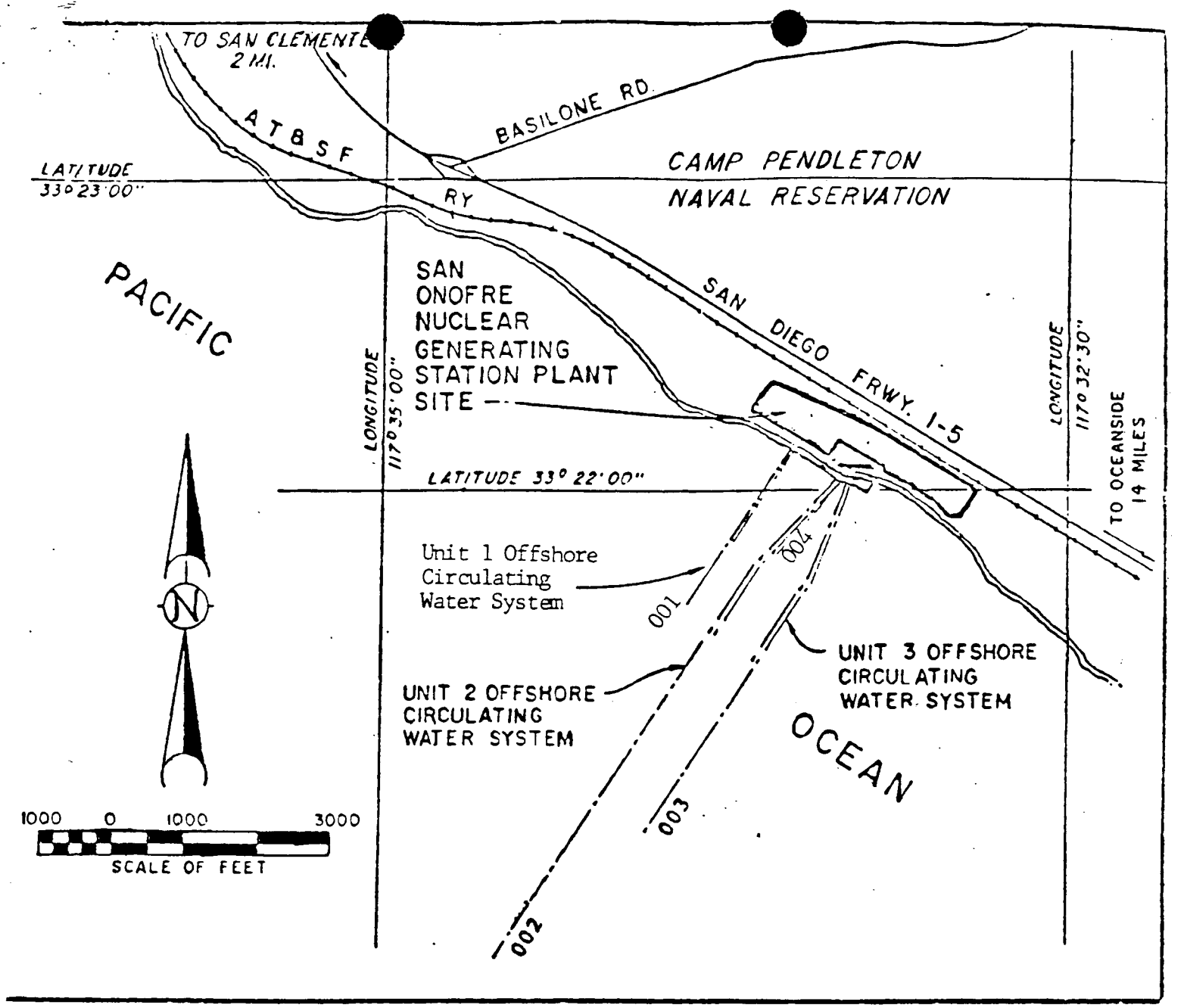
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)	B. SIGNATURE	C. DATE SIGNED
GLENN J. BJORKLUND Vice President, Sys. Plng. & Resch.	G J Bjorklund	1/6/87

COMMENTS FOR OFFICIAL USE ONLY

* U. S. GOVERNMENT PRINTING OFFICE : 1981 726-630/1470


GENERAL LOCATION MAP OF
SAN ONOFRE NUCLEAR GENERATING
STATION
Trailer Park
San Onofre
San Onofre Beach
SAN ONOFRE NUCLEAR GENERATING
STATION
(SEE ATTACHMENT 2 FOR LOCATION OF
INTAKE AND DISCHARGE STRUCTURES)
ATCHISON
SAN DIEGO
TOPEKA
Bluff
AND
SANTA
GN
MN
0°19'
6 MILS
14½°
257 MILS
UTM GRID AND 1975 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET
SCALE 1:24000
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 5 0 1 KILOMETER
CONTOUR INTERVAL 20 FEET



"LOCATION MAP"
Based on U.S.G.S. Quad Map San Onofre Bluff, Calif.
San Diego County, California

Southern California Edison Company

SDG&E SAN DIEGO GAS & ELECTRIC COMPANY

December 1, 1986

ATTACHMENT NO. 2

Please print or type in the unshaded areas only

EPA I.D. NUMBER (copy from Item 1 of Form 1)
CA 0001228

Form Approved OMB No. 158-R0173

FORM 2C NPDES

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS
Consolidated Permits Program

I. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. OUTFALL NUMBER (list)	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER (name)
	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	
001	33	21	43	117	33	46	Pacific Ocean

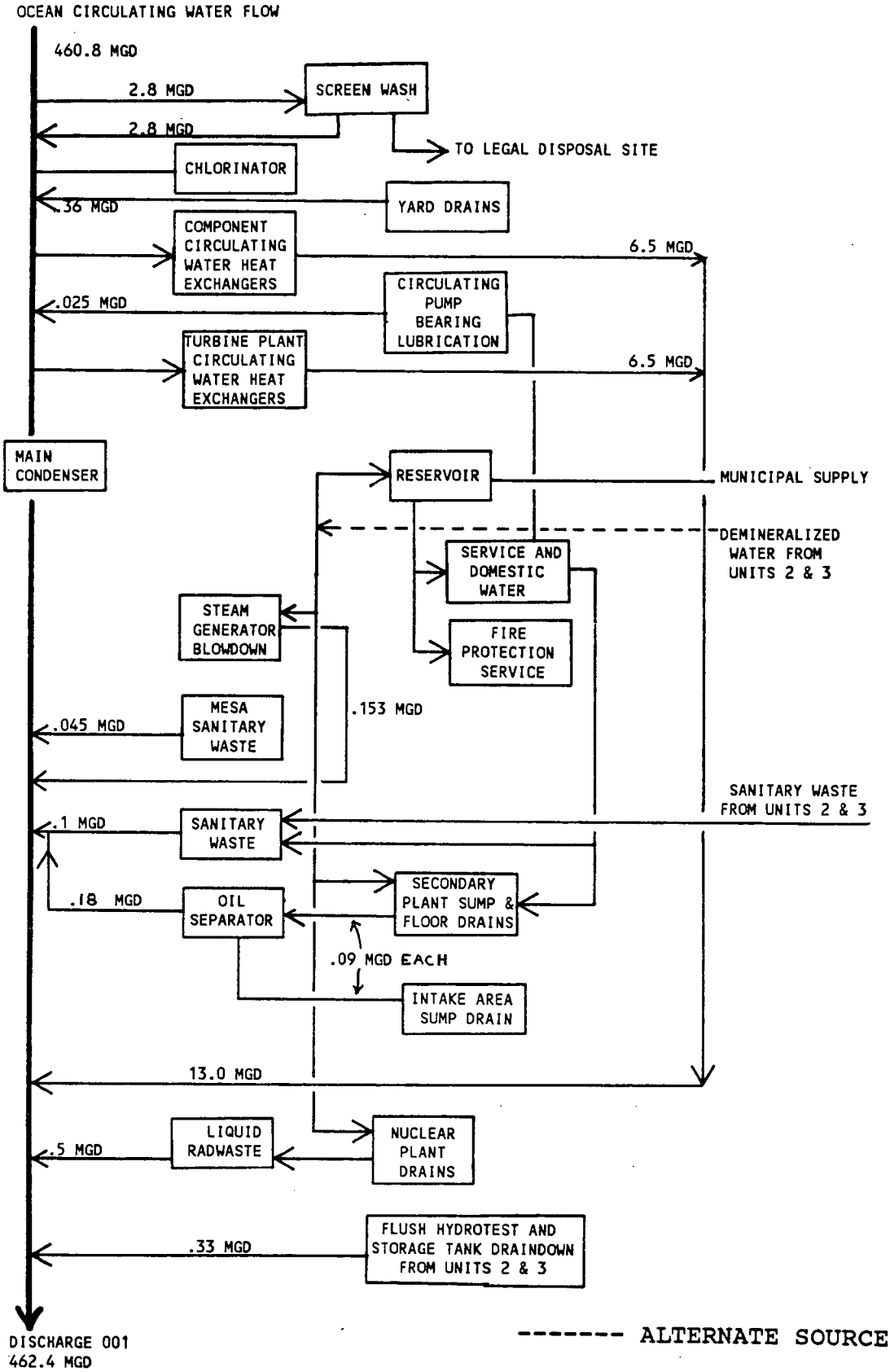
II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined *(e.g., for certain mining activities)*, provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUTFALL NO. (list)	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT		
	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
001	Condenser Cooling Water	320,000 gpm	Ocean Discharge		4B
	Steam Generator Blowdown	106 gpm	Ocean Discharge		4B
	Flush, Hydrotest & Storage	230 gpm	Retention and Ocean		
	Tank Draindown From		Discharge		4B
	Units 2 and 3				
	Component Cooling Water	4,500 gpm	Ocean Discharge		4B
	Turbine Plant Cooling	4,500 gpm	Ocean Discharge		4B
	Water				
	Plant Drains	60 gpm	Oil Removal and Ocean Discharge	1H	4B
	Screen Wash	2,000 gpm	Ocean Discharge		4B
	Yard Drains	250 gpm	Ocean Discharge		4B
	Circulating Pump Bearing	17 gpm	Ocean Discharge		4B
	Lubrication				
	Sanitary Wastes	100 gpm	Secondary Treatment,	3A	
			Chlorination and Ocean	2F	4B
			Discharge		
	Radwaste System	347 gpm	Neutralization and		
			Ocean Discharge		2K
					4B

OFFICIAL USE ONLY *(effluent guidelines sub-categories)*



------- ALTERNATE SOURCE

SCHEMATIC OF WATER FLOW
Southern California Edison Company
San Onofre Nuclear Generating Station, Unit 1
San Diego County, CA.
December 1986

CONTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are [redacted] of the discharges described in Items II-A or B interm[redacted] or seasonal?

XX YES (complete the following ta[redacted]) ☐ NO (go to Section III)

1. OUTFALL NUMBER (list)	2. OPERATION(s) CONTRIBUTING FLOW (list)	3. FREQUENCY a. DAYS PER WEEK (specify average)	3. FREQUENCY b. MONTHS PER YEAR (specify average)	4. FLOW a. FLOW RATE (in mgd) 1. LONG TERM AVERAGE	4. FLOW a. FLOW RATE (in mgd) 2. MAXIMUM DAILY	4. FLOW b. TOTAL VOLUME (specify with units) 1. LONG TERM AVERAGE	4. FLOW b. TOTAL VOLUME (specify with units) 2. MAXIMUM DAILY	4. FLOW c. DURATION (in days)
001	Flush, Hydrotest, and Storage Tank Draindown from Units 2 and 3	7	12	.15	.33	150,000 gals.	330,000 gals.	daily
	Screen Wash (approx. 8 washes/day)	7	12	1.44	2.88	20,000 gals./ wash	40,000 gals./ wash	20 min/ wash
	Radwaste System	7	12	347 gpm	347 gpm	500,000 gals.	500,000 gals.	daily

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

X YES (complete Item III-B) ☐ NO (to to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measure of operation)?

☐ YES (complete Item III-C) X NO (go to Section IV)

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. (specify)	2. AFFECTED OUTFALLS (list outfall numbers)

IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☐ YES (complete the following table) X NO (go to Item IV-B)

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS a. NO.	2. AFFECTED OUTFALLS b. SOURCE OF DISCHARGE	3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE a. REQUIRED	4. FINAL COMPLIANCE DATE b. PROJECTED

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (or other environmental projects which may affect your discharges) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction. ☐ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding — Complete one set of tables for each outfall — Annotate the outfall number in the space provided. NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
None believed present.			

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

A. Is any pollutant listed in Item V-C a substance or a component of a substance which you do or expect that you will use during the next 5 years as an intermediate or final product or byproduct?

☒ YES (list all such pollutants below) ☐ NO (go to Item VI-B)

- o Benzene
- o Toluene
- o 1,1,1-Trichloroethane
- o Carbon Tetrachloride
- o 1,1-Dichloroethylene

B. Are your operations such that your raw materials, processes, or products can reasonably be expected to vary so that your discharges of pollutants may during the next 5 years exceed two times the maximum values reported in Item V?

☒ YES (complete Item VI-C below) ☐ NO (go to Section VII)

C. If you answered "Yes" to Item VI-B, explain below and describe in detail the sources and expected levels of such pollutants which you anticipate will be discharged from each outfall over the next 5 years, to the best of your ability at this time. Continue on additional sheets if you need more space.

- o Variations in the characteristics of the intake water (Pacific Ocean) may cause pollutant levels of the discharge to exceed two times the maximum values reported in Item V.

Item VIII (continued)

Constituents in Item V Analyzed by
Environmental Engineering Laboratory

BOD, 5 day 20°C
Magnesium
Sulfate
Fluoride
Boron
Manganese
Total Phosphate
Ammonia-N
Nitrate-N
Total Organic Nitrogen

Aluminum
Zinc
Total Chromium
Arsenic
Lead
Copper
Nickel
Cyanide
Phenols
MBAS
Grease and Oil
Sulfides

Suspended Solids
COD
Color
Bromide
TOC
Barium
Cadmium
Silver
Mercury
Antimony
Beryllium
Thallium
Cobalt
Molybdenum
Tin
Titanium

CONTINUED FROM THE FRONT

VII. BIOLOGICAL TOXICITY TESTING DA

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

☒ YES *(identify the test(s) and describe their purposes below)* ☐ NO *(go to Section VIII)*

Bioassay sampling is required in the existing SONGS NPDES permits adopted by the California Regional Water Quality Control Board, San Diego Region. The frequency of analysis and reporting required is semiannual. The methods used for this sampling are those provided by the California Department of Fish and Game in their publication entitled, "Guidelines for Performing Static Acute Toxicity Fish Bioassays in Municipal and Industrial Wastewaters," dated July 1976. The results of the discharge samplings have always been below the limits set in the permit. The toxicity concentrations have always been the minimum value obtainable using the calculations from the Guidelines (0.59 toxicity units).

VIII. CONTRACT ANALYSIS INFORMATION

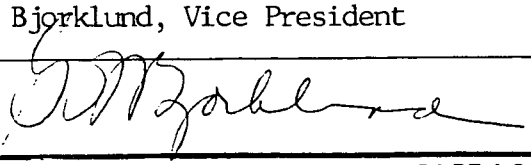
Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☒ YES *(list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)* ☐ NO *(go to Section IX)*

A. NAME	B. ADDRESS	C. TELEPHONE *(area code & no.)*	D. POLLUTANTS ANALYZED *(list)*
Montgomery Laboratories	555 E. Walnut Street Pasadena, CA 91101	(213) 681-4255	All pollutants in Item V except flow, temperature, and those listed below.
Environmental Engineering Laboratories	3538 Hancock Street San Diego, CA 92110	(714) 298-6131	See attached list.
PJB Laboratories (AKA Jacobs Laboratories)	373 S. Fair Oaks Avenue Pasadena, CA 91101	(213) 795-7553	Fecal coliform, radioactivity, sulfite, selenium, dichlorodifluoromethane, trichlorofluoromethane

IX. CERTIFICATION

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.

A. NAME & OFFICIAL TITLE *(type or print)*	B. PHONE NO. *(area code & no.)*
Mr. Glenn J. Bjorklund, Vice President	(818) 302-2149
C. SIGNATURE 	D. DATE SIGNED 1/6/87

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets *(use the same format)* instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*: CA0001228

Form Approved. OMB No. 2000-0059 Approval expires 12-31-85

OUTFALL NO: 001

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	3. UNITS (specify if blank) a. CONCENTRATION	3. UNITS b. MASS	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE b. NO. OF ANALYSES
a. Biochemical Oxygen Demand *(BOD)*	< 1.0	< 3,856					1	mg/l	lbs	< 1.0	3,856	1
b. Chemical Oxygen Demand *(COD)*	360 (4)	1.38×10^6					1	mg/l	lbs	393 (4)	1.52×10^6	1
c. Total Organic Carbon *(TOC)*	1.0	3,856					1	mg/l	lbs	1.0	3,856	1
d. Total Suspended Solids *(TSS)*	3.3	1.27×10^4					1	mg/l	lbs	8.4	3.24×10^4	1
e. Ammonia *(as N)*	0.06	231					1	mg/l	lbs	0.05	193	1
f. Flow	VALUE 462.4 MGD		VALUE		VALUE 462.4 MGD		cont.	--	--	VALUE 447.7 MGD		cont.
g. Temperature *(winter)*	VALUE 50		VALUE		VALUE		cont. (2)	°C		VALUE 15		cont. (3)
h. Temperature *(summer)*	VALUE 50		VALUE		VALUE		cont. (2)	°C		VALUE 18.3		cont. (3)
i. pH	MINIMUM 6.3 (5)	MAXIMUM 8.3 (5)	MINIMUM	MAXIMUM			21	STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. *(If available)*	2. MARK 'X' a. BELIEVED PRESENT	2. MARK 'X' b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE b. NO. OF ANALYSES
a. Bromide (24959-67-9)	X		56	2.16×10^5					1	mg/l	lbs	60	2.31×10^5	1
b. Chlorine, Total Residual	X		.23	887			.18	694	2	mg/l	lbs	--	--	
c. Color	X		3	--					1	color units	---	3	--	1
d. Fecal Coliform	X		2.4 (6)	--					1	MPN/ 100ml	---	< 2.2 (6)	--	1
e. Fluoride (16984-48-8)	X		1.7	6,556					1	mg/l	lbs	1.8	6,942	1
f. Nitrate-Nitrite *(as N)*	X		0.04	154					1	mg/l	lbs	0.05	193	1

CONTINUE ON REVERSE

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK 'X' a. BELIEVED PRESENT	2. MARK 'X' b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	3. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	3. EFFLUENT c. LONG TERM AVRG. VALUE (if available) (2) MASS	3. EFFLUENT d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N)	X		0.1	386					1	mg/l	lbs	0.16		1
h. Oil and Grease	X		< 0.1	< 386					1	mg/l	lbs	0.1	386	1
i. Phosphorus (as P), Total (7723-14-0)	X		0.08	309					1	mg/l	lbs	0.08	309	1
j. Radioactivity														
(1) Alpha, Total	X		15±5 (6)	---					1	pCi/l	---	15±5 (6)	---	1
(2) Beta, Total	X		40±15 (6)	---					1	pCi/l	---	40±15 (6)	---	1
(3) Radium, Total	X		5±1 (6)	---					1	pCi/l	---	5±1 (6)	---	1
(4) Radium 226, Total	X		5±1 (6)	---					1	pCi/l	---	5±1 (6)	---	1
k. Sulfate (as SO_4) (14808-79-8)	X		2752	1.06×10^7					1	mg/l	lbs	2558	9.86×10^6	1
l. Sulfide (as S)	X		< 0.1	< 386					1	mg/l	lbs	< 0.1	< 386	1
m. Sulfite (as SO_3) (14265-45-3)	X		< 0.5 (6)	< 1,928					1	mg/l	lbs	< 0.5	< 1,928	1
n. Surfactants	X		0.05	193					1	mg/l	lbs	0.05	193	1
o. Aluminum, Total (7429-90-5)	X		< 0.1	< 386					1	mg/l	lbs	< 0.1	< 386	1
p. Barium, Total (7440-39-3)	X		< 0.1	< 386					1	mg/l	lbs	< 0.1	< 386	1
q. Boron, Total (7440-42-8)	X		5.2	20,053					1	mg/l	lbs	4.8	18,511	1
r. Cobalt, Total (7440-48-4)	X		< 0.05	< 193					1	mg/l	lbs	< 0.05	< 193	1
s. Iron, Total (7439-89-6)	X		0.02	77					1	mg/l	lbs	0.05	193	1
t. Magnesium, Total (7439-95-4)	X		1160	4.47×10^6					1	mg/l	lbs	1100	4.24×10^6	1
u. Molybdenum, Total (7439-98-7)	X		< 0.1	< 386					1	mg/l	lbs	< 0.1	< 386	1
v. Manganese, Total (7439-96-5)	X		< 0.01	< 39					1	mg/l	lbs	< 0.01	< 39	1
w. Tin, Total (7440-31-5)	X		< 0.2	< 771					1	mg/l	lbs	< 0.2	< 771	1
x. Titanium, Total (7440-32-6)	X		< 0.2	< 771					1	mg/l	lbs	< 0.2	< 771	1

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CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a *(secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions)*, mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table *(all 7 pages)* for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)	X			< 0.2	< 771.0					1	mg/l	lbs	< 0.2	771.0	1
2M. Arsenic, Total (7440-38-2)	X			0.001	3.9					1	mg/l	lbs	0.001	3.9	1
3M. Beryllium, Total, 7440-41-7)	X			< 0.01	< 38.6					1	mg/l	lbs	< 0.01	38.6	1
4M. Cadmium, Total (7440-43-9)	X			< 0.01	< 38.6					1	mg/l	lbs	< 0.01	38.6	1
5M. Chromium, Total (7440-47-3)	X			< 0.01	< 38.6					1	mg/l	lbs	< 0.01	38.6	1
6M. Copper, Total (7440-50-8)	X			< 0.01	< 38.6					1	mg/l	lbs	< 0.05	38.6	1
7M. Lead, Total (7439-92-1)	X			< 0.01	< 38.6					1	mg/l	lbs	< 0.01	38.6	1
8M. Mercury, Total (7439-97-6)	X			< 0.0008	< 3.1					1	mg/l	lbs	< 0.0008	3.1	1
9M. Nickel, Total (7440-02-0)	X			< 0.01	< 38.6					1	mg/l	lbs	< 0.01	38.6	1
10M. Selenium, Total (7782-49-2)	X			0.13 (6)	501.3					1	mg/l	lbs	0.13 (6)	501.3	1
11M. Silver, Total (7440-22-4)	X			< 0.01	< 38.6					1	mg/l	lbs	< 0.01	38.6	1
12M. Thallium, Total (7440-28-0)	X			< 0.05	< 192.8					1	mg/l	lbs	< 0.05	192.8	1
13M. Zinc, Total (7440-66-6)	X			< 0.01	< 38.6					1	mg/l	lbs	< 0.01	38.6	1
14M. Cyanide, Total (57-12-5)	X			< 0.01	< 38.6					1	mg/l	lbs	< 0.01	38.6	1
15M. Phenols, Total	X			0.004	15.4					1	mg/l	lbs	0.007	27.0	1
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)	X			< 1.0	< 3.85					1	ug/l	lbs	< 1.0	< 3.85	1
2V. Acrylonitrile (107-13-1)	X			< 1.0	< 3.85					1	ug/l	lbs	< 1.0	< 3.85	1
3V. Benzene (71-43-2)	X			0.1	0.39					1	ug/l	lbs	< 0.1	< 0.39	1
4V. Bis (Chloromethyl) Ether (542-88-1)	X			< 10	< 38.5					1	ug/l	lbs	< 10	< 38.5	1
5V. Bromoform (75-25-2)	X			< 0.1	< 0.39					1	ug/l	lbs	< 0.1	< 0.39	1
6V. Carbon Tetrachloride (56-23-5)	X			< 0.1	< 0.39					1	ug/l	lbs	< 0.1	< 0.39	1
7V. Chlorobenzene (108-90-7)	X			< 0.1	< 0.39					1	ug/l	lbs	< 0.1	< 0.39	1
8V. Chlorodibromomethane (124-48-1)	X			< 0.1	< 0.39					1	ug/l	lbs	< 0.1	< 0.39	1
9V. Chloroethane (75-00-3)	X			< 1.0	< 3.85					1	ug/l	lbs	< 1.0	< 3.85	1
10V. 2-Chloroethylvinyl Ether (110-75-8)	X			< 1.0	< 3.85					1	ug/l	lbs	< 1.0	< 3.85	1
11V. Chloroform (67-66-3)	X			< 0.1	< 0.39					1	ug/l	lbs	< 0.1	< 0.39	1
12V. Dichlorobromomethane (75-27-4)	X			< 0.1	< 0.39					1	ug/l	lbs	< 0.1	< 0.39	1
13V. Dichlorodifluoromethane (75-71-8)	X			< 20 (6)	< 77					1	ug/l	lbs	< 20 (6)	< 77	1
14V. 1,1-Dichloroethane (75-34-3)	X			< 0.1	< 0.39					1	ug/l	lbs	< 0.1	< 0.39	1
15V. 1,2-Dichloroethane (107-06-2)	X			< 0.1	< 0.39					1	ug/l	lbs	< 0.1	< 0.39	1
16V. 1,1-Dichloroethylene (75-35-4)	X			< 0.1	< 0.39					1	ug/l	lbs	< 0.1	< 0.39	1
17V. 1,2-Dichloropropane (78-87-5)	X			< 0.1	< 0.39					1	ug/l	lbs	< 0.1	< 0.39	1
18V. 1,3-Dichloropropylene (542-75-6)	X			< 0.1	< 0.39					1	ug/l	lbs	< 0.1	< 0.39	1
19V. Ethylbenzene (100-41-4)	X			< 0.1	< 0.39					1	ug/l	lbs	< 0.1	< 0.39	1
20V. Methyl Bromide (74-83-9)	X			< 1.0	< 3.85					1	ug/l	lbs	< 1.0	< 3.85	1
21V. Methyl Chloride (74-87-3)	X			< 1.0	< 3.85					1	ug/l	lbs	< 1.0	< 3.85	1

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – VOLATILE COMPOUNDS *(continued)*															
22V. Methylene Chloride (75-09-2)	X			< 1.0	< 3.9					1	ug/l	lbs	< 1.0	< 3.9	1
23V. 1,1,2,2-Tetrachloroethane (79-34-5)	X			< 0.1	< 0.4					1	ug/l	lbs	< 0.1	< 0.4	1
24V. Tetrachloroethylene (127-18-4)	X			< 0.1	< 0.4					1	ug/l	lbs	< 0.1	< 0.4	1
25V. Toluene (108-88-3)	X			< 0.5	< 1.9					1	ug/l	lbs	< 0.5	< 1.9	1
26V. 1,2-Trans-Dichloroethylene (156-60-5)	X			< 0.1	< 0.4					1	ug/l	lbs	< 0.1	< 0.4	1
27V. 1,1,1-Trichloroethane (71-55-6)	X			< 0.1	< 0.4					1	ug/l	lbs	< 0.1	< 0.4	1
28V. 1,1,2-Trichloroethane (79-00-5)	X			< 0.1	< 0.4					1	ug/l	lbs	< 0.1	< 0.4	1
29V. Trichloroethylene (79-01-6)	X			< 0.1	< 0.4					1	ug/l	lbs	< 0.1	< 0.4	1
30V. Trichlorofluoromethane (75-69-4)	X			< 20 (6)	< 77					1	ug/l	lbs	< 20 (6)	< 77	1
31V. Vinyl Chloride (75-01-4)	X			< 1.0	< 3.9					1	ug/l	lbs	< 1.0	< 3.9	1
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
2A. 2,4-Dichlorophenol (120-83-2)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
3A. 2,4-Dimethylphenol (105-67-9)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
4A. 4,6-Dinitro-O-Cresol (534-52-1)	X			< 5 0	< 19 3					1	ug/l	lbs	< 5 0	< 19 3	1
5A. 2,4-Dinitrophenol (51-28-5)	X			< 5 0	< 19 3					1	ug/l	lbs	< 5 0	< 19 3	1
6A. 2-Nitrophenol (88-75-5)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
7A. 4-Nitrophenol (100-02-7)	X			< 10	< 39					1	ug/l	lbs	< 10	< 39	1
8A. P-Chloro-M-Cresol (59-50-7)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
9A. Pentachlorophenol (87-86-5)	X			< 10	< 39					1	ug/l	lbs	< 10	< 39	1
10A. Phenol (108-95-2)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
11A. 2,4,6-Trichlorophenol (88-06-2)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
2B. Acenaphtylene (208-96-8)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
3B. Anthracene (120-12-7)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
4B. Benzidine (92-87-5)	X			< 5 0	< 19 3					1	ug/l	lbs	< 5 0	< 19 3	1
5B. Benzo *(a)* Anthracene (56-55-3)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
6B. Benzo *(a)* Pyrene (50-32-8)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
7B. 3,4-Benzo-fluoranthene (205-99-2)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
8B. Benzo *(ghi)* Perylene (191-24-2)	X			< 10	< 39					1	ug/l	lbs	< 10	< 39	1
9B. Benzo *(k)* Fluoranthene (207-08-9)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
10B. Bis *(2-Chloro-ethoxy)* Methane (111-91-1)	X			< 10	< 39					1	ug/l	lbs	< 10	< 39	1
11B. Bis *(2-Chloro-ethyl)* Ether (111-44-4)	X			< 10	< 39					1	ug/l	lbs	< 10	< 39	1
12B. Bis *(2-Chloroso-propyl)* Ether (102-60-1)	X			< 10	< 39					1	ug/l	lbs	< 10	< 39	1
13B. Bis *(2-Ethyl-hexyl)* Phthalate (117-81-7)	X			< 20	< 77					1	ug/l	lbs	< 20	< 77	1
14B. 4-Bromo-phenyl Phenyl Ether (101-55-3)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
15B. Butyl Benzyl Phthalate (85-68-7)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
16B. 2-Chloro-naphthalene (91-58-7)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
18B. Chrysene (218-01-9)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
19B. Dibenzo *(a,h)* Anthracene (53-70-3)	X			< 10	< 39					1	ug/l	lbs	< 10	< 39	1
20B. 1,2-Dichloro-benzene (95-50-1)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
21B. 1,3-Dichloro-benzene (541-73-1)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) b. NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS *(continued)*															
22B. 1,4-Dichlorobenzene (106-46-7)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
23B. 3,3'-Dichlorobenzidine (91-94-1)	X			< 5 0	< 19 3					1	ug/l	lbs	< 5 0	< 19 3	1
24B. Diethyl Phthalate (84-66-2)	X			< 5.0	< 19.3					1	ug/l	lbs	< 8.0	< 19.3	1
25B. Dimethyl Phthalate (131-11-3)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
26B. Di-N-Butyl Phthalate (84-74-2)	X			< 10	< 39					1	ug/l	lbs	< 5.0	< 39	1
27B. 2,4-Dinitrotoluene (121-14-2)	X			< 5.0	< 19.3					1	ug/l	lbs	< 10	< 19.3	1
28B. 2,6-Dinitrotoluene (606-20-2)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
29B. Di-N-Octyl Phthalate (117-84-0)	X			< 10	< 39					1	ug/l	lbs	< 10	< 39	1
30B. 1,2-Diphenylhydrazine *(as Azobenzene)* (122-66-7)	X			< 10	< 39					1	ug/l	lbs	< 10	< 39	1
31B. Fluoranthene (206-44-0)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
32B. Fluorene (86-73-7)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
33B. Hexachlorobenzene (118-74-1)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
34B. Hexachlorobutadiene (87-68-3)	X			< 10	< 39					1	ug/l	lbs	< 10	< 39	1
35B. Hexachlorocyclopentadiene (77-47-4)	X			< 10	< 39					1	ug/l	lbs	< 10	< 39	1
36B. Hexachloroethane (67-72-1)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
37B. Indeno *(1,2,3-cd)* Pyrene (193-39-5)	X			< 10	< 39					1	ug/l	lbs	< 10	< 39	1
38B. Isophorone (78-59-1)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
39B. Naphthalene (91-20-3)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
40B. Nitrobenzene (98-95-3)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
41B. N-Nitrosodimethylamine (62-75-9)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
42B. N-Nitrosodi-N Propylamine (621 64 7)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS *(continued)*															
43B. N-Nitrosodiphenylamine (86-30-6)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
44B. Phenanthrene (85-01-8)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
45B. Pyrene (129-00-0)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
46B. 1,2,4 - Trichlorobenzene (120-82-1)	X			< 5.0	< 19.3					1	ug/l	lbs	< 5.0	< 19.3	1
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X												
2P. α-BHC (319-84-6)			X												
3P. β-BHC (319-85-7)			X												
4P. γ-BHC (58-89-9)			X												
5P. δ-BHC (319-86-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-55-9)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. α-Endosulfan (115-29-7)			X												
12P. β-Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			X												
15P. Endrin Aldehyde (7421-93-4)			X												
16P. Heptachlor (76-44-8)			X												

CONTINUE ON PAGE V-9

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	b. NO. OF ANALYSES
GC/MS FRACTION – PESTICIDES *(continued)*															
17P. Heptachlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53469-21-9)			X												
19P. PCB-1254 (11097-69-1)			X												
20P. PCB-1221 (11104-28-2)			X												
21P. PCB-1232 (11141-16-5)			X												
22P. PCB-1248 (12672-29-6)			X												
23P. PCB-1260 (11096-82-5)			X												
24P. PCB-1016 (12674-11-2)			X												
25P. Toxaphene (8001-35-2)			X												

APPENDIX I -- NOTES FOR ITEM V

NOTE 1

For outfall No. 001, analytical results are from NPDES in-plant monitoring during 1985 and also special sampling conducted in October 1986.

NOTE 2

Continuous in-plant temperature monitoring for the years 1984-85.

NOTE 3

Results from NPDES monitoring during 1981.

NOTE 4

COD results appear high due to chloride interference.

NOTE 5

The natural range of pH for the San Onofre study area, based on data measured from 1967 to 1973 is 7.3 to 8.5. Allan Hancock Foundation (1965) reported a range of surface pH of 7.5 to 8.6 in coastal waters near San Onofre, with an average pH of 8.1. Values for outfall No. 001 were actual maximum/minimum values obtained during 1984-85.

NOTE 6

Analysis from February 1982 sampling.

NOTE 7

In addition to the parameters listed under Item V, the following substances (next page) will periodically be present in the discharged waste water from the San Onofre facility. These substances were not in the effluent during the October 1985 sampling of the waste water. The listed effluent concentrations are calculated estimates at the point of discharge.

APPENDIX I (cont'd.)

	Parameter	Comments	Estimated Conc. (mg/l)
a)	Hydrazine	reducing agent to prevent corrosion	0.34
b)	Ethylene Glycol polymers	non-ionic biodegradable surfactant (C_8-C_{25} carbon chain length) used during flushings	1.0
c)	Trisodium Phosphate	used as detergent during flushings	1.0
d)	Sodium Fluorescein	biodegradable dye used during hydrotesting (not visible at point of discharge	
e)	Radamine	biodegradable dye used during hydrotesting (not visible at point of discharge	
f)	Silicon	anti-foaming agent used in conjunction with surfactants	0.1
g)	Chromic Acid	anti-corrosion agent	0.005
h)	Boric Acid	used in the primary systems, prior to discharge the borated water is treated to meet radiological and pH limits	6-9 pH
i)	Nalco (39 and 2000)	anti-corrosion agent containing sodium, boron, nitrate and nitrite	1.0
j)	Sulfuric Acid	pH control of demineralizer regenerants	6-9 pH
k)	Sodium Hydroxide	pH control of demineralizer regenerants	6-9 pH
l)	Ammonia	pH control	6-9 pH
m)	Calgon H-380 (Simazine)	algae control in fire water reservoir	<0.006