

**Appendix 5.15C**  
**Draft Waste Discharge Permit**

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## APPLICATION/REPORT OF WASTE DISCHARGE GENERAL INFORMATION FORM FOR WASTE DISCHARGE REQUIREMENTS OR NPDES PERMIT



### I. FACILITY INFORMATION

#### A. Facility:

Name: Redondo Beach Energy Project			
Address: 1100 Harbor Drive			
City: Redondo Beach	County: Los Angeles	State: CA	Zip Code: 90277
Contact Person: Stephen O'Kane		Telephone Number: (562) 493-7840	

#### B. Facility Owner:

Name: AES Southland Development, LLC			Owner Type (Check One)	
Address: 690 North Studebaker Road			1. <input type="checkbox"/> Individual	2. <input checked="" type="checkbox"/> Corporation
City: Long Beach			3. <input type="checkbox"/> Governmental Agency	4. <input type="checkbox"/> Partnership
State: CA			5. <input type="checkbox"/> Other: _____	
Zip Code: 90803				
Contact Person: Stephen O'Kane		Telephone Number: (562) 493-7840		Federal Tax ID:

#### C. Facility Operator (The agency or business, not the person):

Name: same as owner			Operator Type (Check One)	
Address:			1. <input type="checkbox"/> Individual	2. <input type="checkbox"/> Corporation
City:			3. <input type="checkbox"/> Governmental Agency	4. <input type="checkbox"/> Partnership
State:			5. <input type="checkbox"/> Other: _____	
Zip Code:				
Contact Person:		Telephone Number:		

#### D. Owner of the Land:

Name: same as owner			Owner Type (Check One)	
Address:			1. <input type="checkbox"/> Individual	2. <input type="checkbox"/> Corporation
City:			3. <input type="checkbox"/> Governmental Agency	4. <input type="checkbox"/> Partnership
State:			5. <input type="checkbox"/> Other: _____	
Zip Code:				
Contact Person:		Telephone Number:		

#### E. Address Where Legal Notice May Be Served:

Address: same as owner			
City:	State:	Zip Code:	
Contact Person:		Telephone Number:	

#### F. Billing Address:

Address: same as owner			
City:	State:	Zip Code:	
Contact Person:		Telephone Number:	



APPLICATION/REPORT OF WASTE DISCHARGE GENERAL INFORMATION FORM FOR WASTE DISCHARGE REQUIREMENTS OR NPDES PERMIT



II. TYPE OF DISCHARGE

Check Type of Discharge(s) Described in this Application (A or B):

[ ] A. WASTE DISCHARGE TO LAND

[x] B. WASTE DISCHARGE TO SURFACE WATER

Check all that apply:

- [ ] Domestic/Municipal Wastewater Treatment and Disposal
[ ] Cooling Water
[ ] Mining
[ ] Waste Pile
[ ] Wastewater Reclamation
[ ] Other, please describe:

- [ ] Animal Waste Solids
[ ] Land Treatment Unit
[ ] Dredge Material Disposal
[ ] Surface Impoundment
[x] Industrial Process Wastewater

- [ ] Animal or Aquacultural Wastewater
[ ] Biosolids/Residual
[ ] Hazardous Waste (see instructions)
[ ] Landfill (see instructions)
[x] Storm Water

III. LOCATION OF THE FACILITY

Describe the physical location of the facility.

1. Assessor's Parcel Number(s)
Facility: various
Discharge Point: N/A

2. Latitude
Facility: 33°, 51', 04"
Discharge Point: 33°, 50', 58"

3. Longitude
Facility: 118°, 23', 39"
Discharge Point: 118°, 24', 08"

IV. REASON FOR FILING

- [x] New Discharge or Facility
[ ] Changes in Ownership/Operator (see instructions)
[ ] Change in Design or Operation
[ ] Waste Discharge Requirements Update or NPDES Permit Reissuance
[ ] Change in Quantity/Type of Discharge
[ ] Other:

V. CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

Name of Lead Agency: California Energy Commission (functionally equivalent process)
Has a public agency determined that the proposed project is exempt from CEQA? [ ] Yes [x] No
Basis for Exemption/Agency:
Has a "Notice of Determination" been filed under CEQA? [ ] Yes [x] No
Expected CEQA Documents: [x] EIR [ ] Negative Declaration
Expected CEQA Completion Date: Q2 2014



APPLICATION/REPORT OF WASTE DISCHARGE GENERAL INFORMATION FORM FOR WASTE DISCHARGE REQUIREMENTS OR NPDES PERMIT



VI. OTHER REQUIRED INFORMATION

Please provide a COMPLETE characterization of your discharge. A complete characterization includes, but is not limited to, design and actual flows, a list of constituents and the discharge concentration of each constituent, a list of other appropriate waste discharge characteristics, a description and schematic drawing of all treatment processes, a description of any Best Management Practices (BMPs) used, and a description of disposal methods.

Also include a site map showing the location of the facility and, if you are submitting this application for an NPDES permit, identify the surface water to which you propose to discharge. Please try to limit your maps to a scale of 1:24,000 (7.5' USGS Quadrangle) or a street map, if more appropriate.

VII. OTHER

Attach additional sheets to explain any responses which need clarification. List attachments with titles and dates below:

- Site Location Map (CH2M HILL, 2012)
Industrial Process Waste Characterization (Power Engineers Collaborative LLC, 2012)
Developed Drainage Basins (Power Engineers Collaborative LLC, 2012)
Redondo Beach Generating Station 2011 Monitoring Data for In-Plant Wastes (AES Redondo Beach LLC, 2012)

You will be notified by a representative of the RWQCB within 30 days of receipt of your application. The notice will state if your application is complete or if there is additional information you must submit to complete your Application/Report of Waste Discharge, pursuant to Division 7, Section 13260 of the California Water Code.

VIII. CERTIFICATION

"I certify under penalty of law that this document, including all attachments and supplemental information, were prepared under my direction and supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated 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."

Print Name: \_\_\_\_\_ Title: \_\_\_\_\_
Signature: \_\_\_\_\_ Date: \_\_\_\_\_

FOR OFFICE USE ONLY

Table with 4 columns: Date Form 200 Received, Letter to Discharger, Fee Amount Received, Check #



0 400 800 Feet

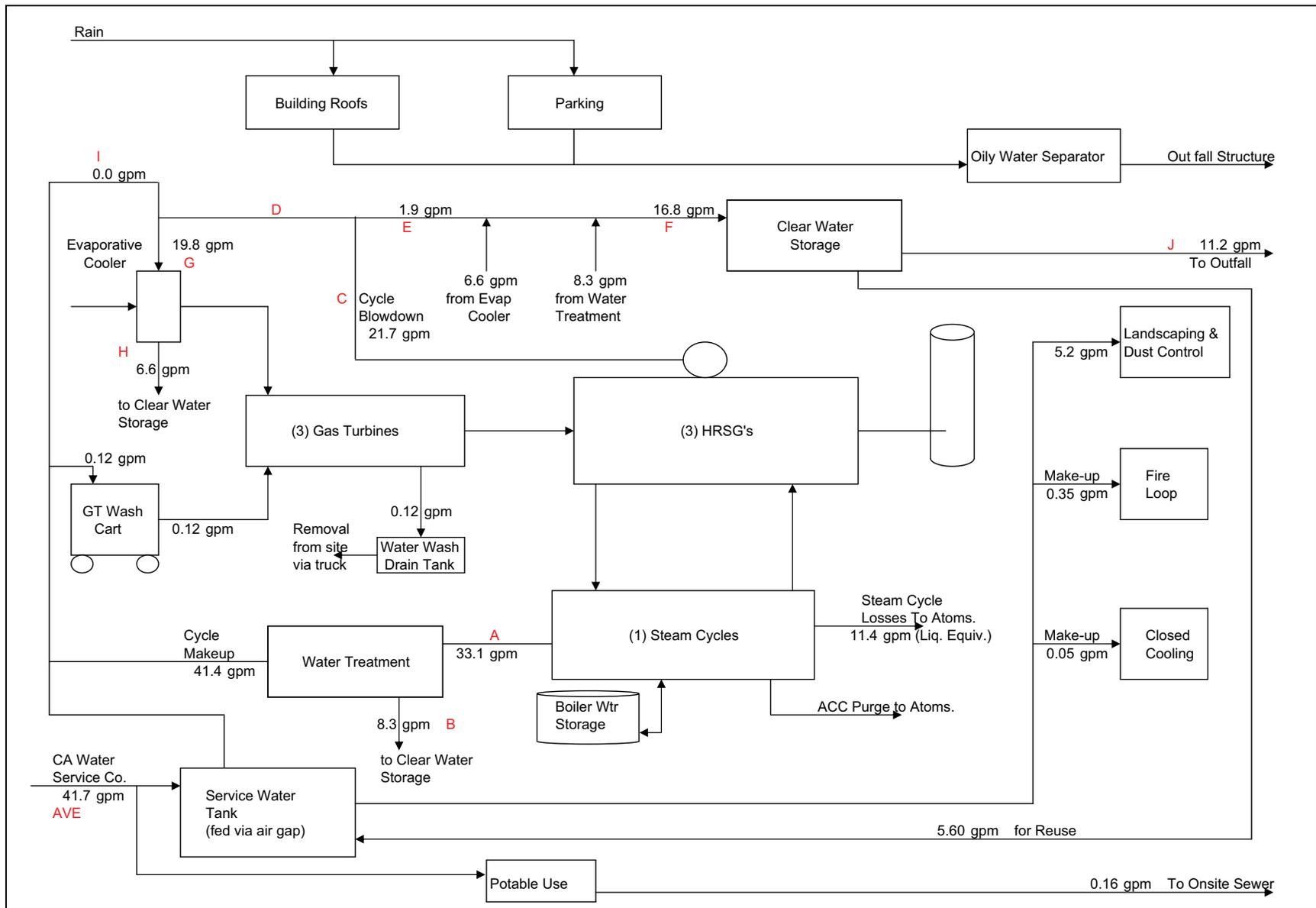


**Legend**

-  Redondo Beach Energy Project
-  Parking and Laydown Area

**FIGURE 1  
Site Location Map**

AES Redondo Beach Energy Project  
Redondo Beach, CA



**AES Southland**  
**Redondo Beach Energy Project**  
**Ave Monthly Temp Water Balance (SMMAAT)**

Date: 2/23/2012  
 Rev. 1  
 Designed: JS Coons  
 Calcs: Chmielewski  
 Checked: M Henderson  
 Approved:



**Power Engineers Collaborative, LLC.**

Misc Input Data  
 RO Machine Ion Rejection % 99.98%

Stipulated HRSG Chemistry  
 Phosphate in HRSG (PPM as PO4) 6.0  
 NaOH (PPM as NaOH) 1.0  
 Total Sodium (PPM as Na) 5.0  
 Ph 10.0

\* RO/DI output-Stipulated Chemistry  
 pH 5.4  
 Specific Cond 0.5  
 Assume portable bottles that are regenerated offsite. No sodium or sulfate added.

				CMU	RO only	RO/DI *	B	C	D	E	F	G	H	I	J
	Well	Surface	Average		A	A									
<b>Flow (GPM)</b>				41.41128	33.13	33.13	8.28	21.69	19.76	1.93	16.80	19.76	6.59	0.00	11.20
Calcium (PPM as Ca)	145	47	96		0.024	0.000	479.880	0.000	0.000	0.000	236.583	0.000	0.000	96.000	236.583
Magnesium (PPM as Mg)	38	19	28.5		0.007	0.000	142.464	0.000	0.000	0.000	70.236	0.000	0.000	28.500	70.236
Sodium (PPM as Na)	130	81	105.5		0.026	0.001	527.368	4.960	4.960	4.960	266.398	4.960	14.880	105.500	266.398
Potassium (PPM as K)	0	0	0		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total Alkalinity (PPM as CaCO3)	0	0	0		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Bicarbonate (PPM as HCO3)															
Chloride (PPM as Cl)	332	86	209		0.052	0.002	1044.739	0.002	0.002	0.002	515.064	0.002	0.006	209.000	515.064
Sulfate (PPM as SO4)	165	137	151		0.038	0.000	754.811	0.000	0.000	0.000	372.125	0.000	0.000	151.000	372.125
Nitrate (PPM as NO3)	0	0.9	0.45		0.000	0.000	2.249	0.000	0.000	0.000	1.109	0.000	0.000	0.450	1.109
Nitrite (PPM as N)	0	0	0		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Silica (PPM as SiO2) Plant Data			15		0.150	0.003	74.250	0.003	0.003	0.003	36.610	0.003	0.010	15.000	36.610
pH	7.7	8.1	7.9		5.800	5.400	8.460	10.000	10.000	10.000		10.000		7.900	
Phosphorous (PPM as P)					0.000	0.000	0.000	1.980	1.980	1.980	2.556	1.980	5.940	0.000	2.556
Phosphate (PPM as PO4)					0.000	0.000	0.000	6.000	6.000	6.000	7.746	6.000	18.000	0.000	7.746
Conductivity (u siemens/cm)	1600	765	1182.5		0.296	0.500	5911.022	0.000	0.000	0.000	2914.161	0.000	0.000	1182.500	2914.161
Total Organic Carbon (PPM)	0	1.8	0.9		0.000	0.000	4.499	0.000	0.000	0.000	2.218	0.000	0.000	0.900	2.218
Total Dissolved Solids (PPM)	963	450	706.5		0.177	0.000	3531.617	0.000	0.000	0.000	1741.103	0.000	0.000	706.500	1741.103
Aluminum (PPM as Al)	0.1	0.1	0.1		0.000	0.000	0.500	0.000	0.000	0.000	0.246	0.000	0.000	0.100	0.246
Arsenic (PPB as As)	1.6	2.7	2.15		0.001	0.000	10.747	0.000	0.000	0.000	5.298	0.000	0.000	2.150	5.298
Barium (PPB as Ba)	200	70	135		0.034	0.000	674.831	0.000	0.000	0.000	332.695	0.000	0.000	135.000	332.695
Boron (PPB)	0	170	85		0.021	0.000	424.894	0.000	0.000	0.000	209.475	0.000	0.000	85.000	209.475
Bromate (PPB)	0	7.2	3.6		0.001	0.000	17.996	0.000	0.000	0.000	8.872	0.000	0.000	3.600	8.872
Cadmium (PPB as Cd)															
Chromium (PPB as Cr)	0	0.3	0.15		0.000	0.000	0.750	0.000	0.000	0.000	0.370	0.000	0.000	0.150	0.370
Copper (PPM as Cu)	0.13	0	0.065		0.000	0.000	0.325	0.000	0.000	0.000	0.160	0.000	0.000	0.065	0.160
Fluoride (PPM)	0.3	0.8	0.55		0.000	0.000	2.749	0.000	0.000	0.000	1.355	0.000	0.000	0.550	1.355
Iron (PPB as Fe)	28.8	0	14.4		0.004	0.000	71.982	0.000	0.000	0.000	35.487	0.000	0.000	14.400	35.487
Lead (PPB as Pb)															
Manganese (PPB as Mn)															
Mercury (PPB as Hg)															
Molybdenum (PPB as Mo)															
Nickel (PPB as Ni)															
Selenium (PPB as Se)	4.6	0	2.3		0.001	0.000	11.497	0.000	0.000	0.000	5.668	0.000	0.000	2.300	5.668
Vanadium (PPB)	0	2.7	1.35		0.000	0.000	6.748	0.000	0.000	0.000	3.327	0.000	0.000	1.350	3.327
Antimony (PPB as Sb)															
Zinc (PPB as Zn)															
Calcium Hardness (PPM as CaCO3)															
Total Hardness (PPM as CaCO3)	520	190	355		0.089	0.000	1774.556	0.000	0.000	0.000	874.864	0.000	0.000	355.000	874.864
Alpha Radiation (pCi/L)	6.9	4.3	5.6		0.001	0.000	27.993	0.000	0.000	0.000	13.801	0.000	0.000	5.600	13.801
Beta Radiation (pCi/L)	0	2.8	1.4		0.000	0.000	6.998	0.000	0.000	0.000	3.450	0.000	0.000	1.400	3.450
Uranium (pCi/L)	7.3	2.4	4.85		0.001	0.000	24.244	0.000	0.000	0.000	11.952	0.000	0.000	4.850	11.952
Radium 228	0.4	0	0.2		0.000	0.000	1.000	0.000	0.000	0.000	0.493	0.000	0.000	0.200	0.493

AES REDONDO BEACH LLC  
 EFFLUENT MONITORING ANALYSIS DATA  
 2008  
 Order No.: 00-085  
 INPLANT WASTE STREAMS (SN001)

Retention Basin	Units	Monthly Ave. Limit	Month											
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Flow (Avg. GPD/Mo x E3)	GPD		2,139.8	1,490.9	201.0	99.4	6,546.7	131.4	92.0	197.0	160.6	146.2	2,155.7	0.0
Suspended Solids	mg/L	30	6.6	1.5	1.2	3.1	7.1	6.3	19.0	11.0	5.4	19.0	6.5	22.0
<b>Yard Drn's &amp; Dewatering Pumps</b>														
Flow (Avg. GPD/Mo x E3)	GPD			130.7	261.7	58.1	23.8	37.0	92.0	713.7	713.7	4.4	7.6	0.0
Suspended Solids	mg/L	30	15.6/15.2	ND	ND	ND	10.8	ND	6.9	ND	ND	ND	ND	0.0
Oil and Grease	mg/L	15	0.0	1.0	ND	ND	ND	ND	ND	1.1	1.0	2.3	ND	0.0

Graph Components

**Yard Drains and Dewatering Pps**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Suspended Solids	5.6/15	0.00	0.00	0.00	10.80	0.00	6.90	0.00	0.00	0.00	0.00	0.00
Limit	100mg/L											

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Oil and Grease	0.00	1.00	0.00	0.00	0.00	0.00	0.00	1.10	1.00	2.30	0.00	0.00
Limit	20 mg/L											

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Flow	0	131	262	58	24	37	92	714	714	4	8	0

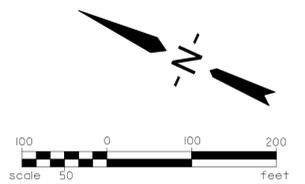
**Retention Basin**

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Oil and Grease	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Suspended Solids	6.60	1.50	1.20	3.10	7.10	6.30	19.00	11.00	5.40	19.00	6.50	22.00

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Flow	2140	1491	201	99	6547	131	92	197	161	146	2156	0

Retention Basin	Units	Monthly Ave. Limit	Month															
			Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct original	Oct Subsequent #1	Oct Subsequent #2	Oct Subsequent #3	Oct Average of 4	Nov	Dec
Flow (Avg. GPD/Mo x E3)	GPD		2,139.8	1,490.9	201.0	99.4	6,546.7	131.4	92.0	197.0	160.6	146.2					2,155.7	0.0
Suspended Solids	mg/L	30	6.6	1.5	1.2	3.1	7.1	6.3	19.0	11.0	5.4	19.0					6.5	22.0
Oil and Grease	mg/L	15	4.6	3.5	2.7	3.7	2.5	3.2	3.2	8.9	2.2	8.8	22.0	3.9	4.0	10.98	7.8	4.9
<b>Yard Drn's &amp; Dewatering Pumps</b>																		
Flow (Avg. GPD/Mo x E3)	GPD			130.7	261.7	58.1	23.8	37.0	92.0	713.7	713.7	4.4					7.6	0.0
Suspended Solids	mg/L	30	15.6/15.2	ND	ND	ND	10.8	ND	6.9	ND	ND	ND					ND	0.0
Oil and Grease	mg/L	15	0.0	1.0	ND	ND	ND	ND	ND	1.1	1.0	2.3					ND	0.0



Basin	Peak Flow	
	10-year CFS	50-year CFS
EX1	1.4	2.3
A	16.9	27.7
B	1.7	5.7
C	26.8	26.8
<b>Proposed Total</b>	<b>45.5</b>	<b>60.3</b>

OS1 is collected offsite and then piped through the property to the power plant's ocean discharge.

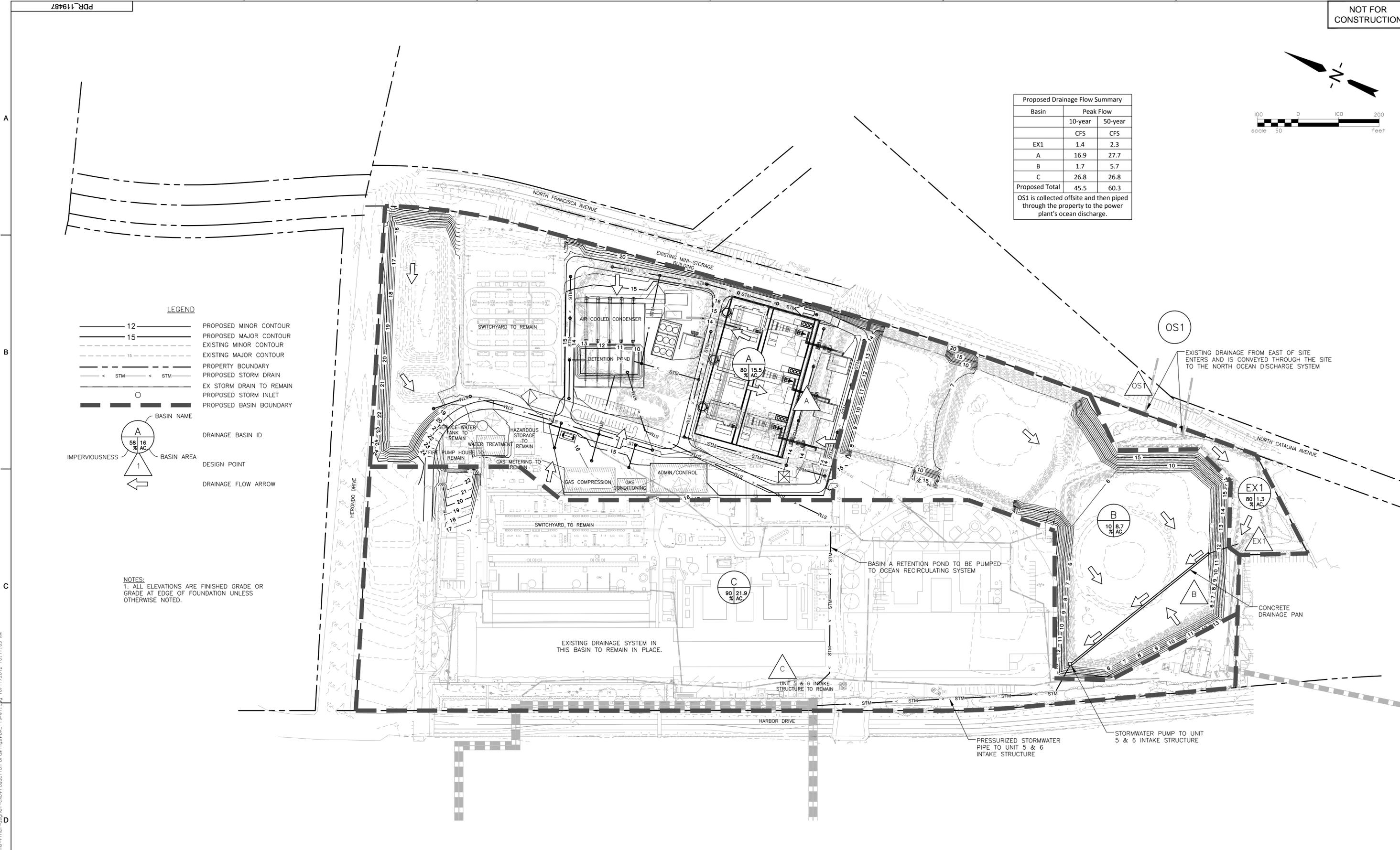
**LEGEND**

- 12 ——— PROPOSED MINOR CONTOUR
- 15 ——— PROPOSED MAJOR CONTOUR
- 15 - - - - EXISTING MINOR CONTOUR
- 15 - - - - EXISTING MAJOR CONTOUR
- — — — PROPERTY BOUNDARY
- < STM < - PROPOSED STORM DRAIN
- < STM < - EX STORM DRAIN TO REMAIN
- < STM < - PROPOSED STORM INLET
- < STM < - PROPOSED BASIN BOUNDARY

**Basin Symbols:**

- (A) BASIN NAME
- (A) DRAINAGE BASIN ID
- 58 16 1/4 AC BASIN AREA
- 1 IMPERVIOUSNESS
- ▲ DESIGN POINT
- DRAINAGE FLOW ARROW

**NOTES:**  
 1. ALL ELEVATIONS ARE FINISHED GRADE OR GRADE AT EDGE OF FOUNDATION UNLESS OTHERWISE NOTED.



REV	DATE	DESCRIPTION	DWN	DGN	CHK	APP
	10/17/12	ADD SOUND WALLS	TAN	TAN	RDC	RDC
	7/3/2012	AIR PERMIT SUBMITTAL	TAN	TAN	AP	RDC

SCALE: AS NOTED

WARNING: IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

D SIZE 36"x24"

Power Engineers Collaborative, L.L.C.

600 W. Jackson Blvd. Suite 600 Chicago, Illinois 60661

150 North Sunny Slope Road Suite 110 Brookfield, Wisconsin 53005

WWW.PECLLC.COM

**REDONDO BEACH ENERGY PROJECT**  
 REDONDO BEACH, CA.

DEVELOPED DRAINAGE BASINS	
DWG#	PDR_119487
REV.	A

P:\PE\REDONDO\119487\_Redondo\_Beach\119487.dwg 10/17/2012 10:17:03 AM



B. 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 III-A. 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.

C. Except for storm runoff, leaks, or spills, will any of the discharges described in Items III-A be intermittent or seasonal?

YES (complete the following table)

NO (go to Section IV)

Outfall Number	1. Frequency		2. Flow		
	a. Days Per Week (specify average)	b. Months Per Year (specify average)	a. Maximum Daily Flow Rate (in mgd)	b. Maximum Total Volume (specify with units)	c. Duration (in days)

**IV. Production**

If there is an applicable production-based effluent guideline or NSPS, for each outfall list the estimated level of production (projection of actual production level, not design), expressed in the terms and units used in the applicable effluent guideline or NSPS, for each of the first 3 years of operation. If production is likely to vary, you may also submit alternative estimates (attach a separate sheet).

Year	A. Quantity Per Day	B. Units Of Measure	c. Operation, Product, Material, etc. (specify)
n/a	n/a	n/a	n/a

CONTINUED FROM THE FRONT	EPA I.D. NUMBER (copy from Item 1 of Form 1)	Outfall Number
--------------------------	--	----------------

**V. Effluent Characteristics**

A and B: These items require you to report estimated amounts (both concentration and mass) of the pollutants to be discharged from each of your outfalls. Each part of this item addresses a different set of pollutants and should be completed in accordance with the specific instructions for that part. Data for each outfall should be on a separate page. Attach additional sheets of paper if necessary.

**General Instructions** (See table 2D-2 for Pollutants)  
 Each part of this item requests you to provide an estimated daily maximum and average for certain pollutants and the source of information. Data for all pollutants in Group A, for all outfalls, must be submitted unless waived by the permitting authority. For all outfalls, data for pollutants in Group B should be reported only for pollutants which you believe will be present or are limited directly by an effluent limitations guideline or NSPS or indirectly through limitations on an indicator pollutant.

1. Pollutant	2. Maximum Daily Value (include units)	3. Average Daily Value (include units)	4. Source (see instructions)
fluoride		1.355 ppm	RBEP Industrial Process Water Balance
nitrate		1.109 ppm	RBEP Industrial Process Water Balance
nitrite		0.000 ppm	RBEP Industrial Process Water Balance
phosphorus		2.556 ppm	RBEP Industrial Process Water Balance
alpha radiation		13.801 pCi/L	RBEP Industrial Process Water Balance
beta radiation		3.450 pCi/L	RBEP Industrial Process Water Balance
sulfate		372.125 ppm	RBEP Industrial Process Water Balance
aluminum		0.246 ppm	RBEP Industrial Process Water Balance
barium		332.695 ppb	RBEP Industrial Process Water Balance
boron		209.475 ppb	RBEP Industrial Process Water Balance
magnesium		70.236 ppm	RBEP Industrial Process Water Balance
arsenic		5.298 ppb	RBEP Industrial Process Water Balance
oil & grease - ret. basin		4.7 mg/L	RBGS Inplant Waste Stream Monitoring Data
oil & grease - yard drains		0.5 mg/L	RBGS Inplant Waste Stream Monitoring Data
susp. solids - ret. basin		9.1 mg/L	RBGS Inplant Waste Stream Monitoring Data
susp. solids - yard drains		2.8 mg/L	RBGS Inplant Waste Stream Monitoring Data

CONTINUED FROM THE FRONT	EPA I.D. NUMBER (copy from Item 1 of Form 1)	
--------------------------	--	--

C. Use the space below to list any of the pollutants listed in Table 2D-3 of the instructions which you know or have reason to believe will be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it will be present.

1. Pollutant	2. Reason for Discharge
n/a	

**VI. Engineering Report on Wastewater Treatment**

A. If there is any technical evaluation concerning your wastewater treatment, including engineering reports or pilot plant studies, check the appropriate box below.

Report Available                       No Report

B. Provide the name and location of any existing plant(s) which, to the best of your knowledge resembles this production facility with respect to production processes, wastewater constituents, or wastewater treatments.

<p>Name</p> <p>Redondo Beach Generating Station</p>	<p>Location</p> <p>1100 Harbor Drive, Redondo Beach, CA</p>
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**VII. Other Information (Optional)**

Use the space below to expand upon any of the above questions or to bring to the attention of the reviewer any other information you feel should be considered in establishing permit limitations for the proposed facility. Attach additional sheets if necessary.

Effluent characteristics are from two sources: water quality calculations for the project's industrial process water balance diagram and data from the Redondo Beach Generation Station, which is located on the same site as the project. Both source documents comprise the waste characterization report, attached to Form 200.

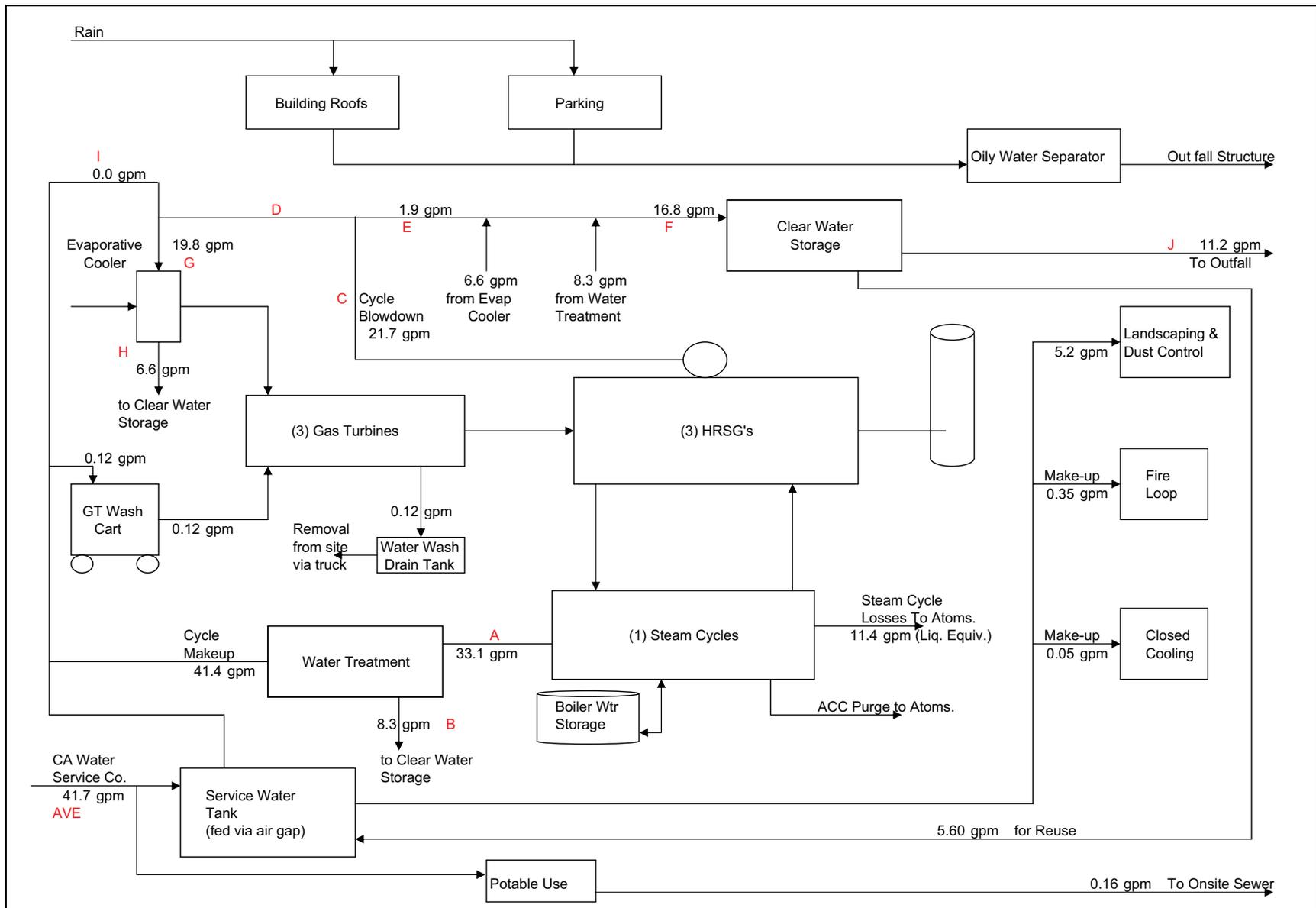
Redondo Beach Energy Project water quality calculations are based on potable water influent flows (California Water Service Company) and show the boiler blowdown and RO reject wastewater streams.

The stormwater waste stream is approximately characterized in monitoring reports prepared for the existing Redondo Beach Generating Station - located on the site of the proposed Redondo Beach Energy Project. Redondo Beach Generating Station in-plant waste streams are similar to the proposed ocean discharges from the Redondo Beach Energy Project. Monitored pollutants associated with stormwater discharges are oil and grease and total suspended solids. All others are associated with the industrial process discharges, which are shown in the water balance calculations.

**VIII. 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 and Official Title (type or print)	B. Phone No.
C. Signature	D. Date Signed



**AES Southland**  
**Redondo Beach Energy Project**  
**Ave Monthly Temp Water Balance (SMMAAT)**

Date: 2/23/2012  
 Rev. 1  
 Designed: JS Coons  
 Calcs: Chmielewski  
 Checked: M Henderson  
 Approved:



**Power Engineers Collaborative, LLC.**