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January 19, 2007

Docket Unit
California Energy Commission
1516 Ninth Street
Sacramento, CA 95814

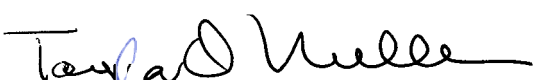
Palomar Energy Center (01-AFC-24C)
Palomar Energy Center Petition for Change of Equipment Pursuant to Condition GEN-2 or Proposed Amendment of the Final Decision

Dear Sir/Madam:

On behalf of San Diego Gas & Electric ("SDG&E"), enclosed please find for filing an original and one copy of Palomar Energy Center Petition for Change of Equipment (Inlet Air Chiller) Pursuant to Condition of Certification Gen-2 or, in the alternative, for an Amendment of the Project Description in the Final Decision. This petition has been filed by electronic transfer (e-mail) and a filing of a paper copy.

If you have any questions, please do not hesitate to contact me.

Sincerely,



Taylor O. Miller, Esq.
Counsel to San Diego Gas & Electric

Enclosures

Connie Bruins
Matthew Layton

PETITION FOR CHANGE OF EQUIPMENT (INLET AIR CHILLER) PURSUANT TO CONDITION OF CERTIFICATION GEN-2 OR, IN THE ALTERNATIVE, FOR AN AMENDMENT OF THE PROJECT DESCRIPTION IN THE FINAL DECISION

PALOMAR ENERGY CENTER (O1-AFC-24C)

By:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

Submitted to:

CALIFORNIA ENERGY COMMISSION

JANUARY 2007

PETITION FOR CHANGE OF EQUIPMENT (INLET AIR CHILLER) PURSUANT TO CONDITION OF CERTIFICATION GEN-2 OR, IN THE ALTERNATIVE FOR AN AMENDMENT OF THE PROJECT DESCRIPTION IN THE FINAL DECISION

PALOMAR ENERGY CENTER
(O1-AFC-24C)

1.0 INTRODUCTION

San Diego Gas & Electric Company (SDG&E) is filing this petition alternatively for approval of an equipment change pursuant to Condition of Certification GEN-2 by the Compliance Program Manager (CPM) or for a proposed amendment of the project design as described in the Final Decision for the Palomar Energy Center (PEC), Docket 01-AFC-24 pursuant to 20 Cal. Code Regs. Section 1769(a)(1). The modification would allow the installation and operation of a centralized chiller to cool inlet air to the two combustion turbines at the Palomar power plant. The plant currently uses an evaporative cooling system to reduce the temperature of inlet air. The system trickles water through a corrugated medium. Combustion turbine air passes through the medium and the water evaporates, lowering the temperature of the air to close to the wet bulb temperature.

The evaporative cooler has not been as effective as expected, and hence the proposed installation of the chiller will allow the PEC to recover output lost by high ambient temperatures and humidity during summer peak that the cooler was expected to meet. No amendment of any condition of certification, including permitted emission limits or verification is requested. Making the change can add approximately 40 MW of available electrical output by the summer peak season of 2007, equivalent to a small new peaking power plant. The project will continue to comply with all laws, ordinances, regulations, and standards ("LORS"). The change will not significantly change project air emissions and no increase in concentration, hourly or annual emission limits is requested. Installation of the equipment was previously approved by the San Diego Air Pollution Control District.

Since no condition of certification would be changed, this proposed equipment change could possibly be evaluated by the Commission Compliance Program Manager ("CPM") under Condition of Certification GEN-2. This condition provides that significant equipment listed on "Table 1: Major Structures and Equipment List" may be changed upon approval of the CPM. The chiller system falls within the HVAC and Refrigeration Systems category in Table 1. Therefore, SDG&E submits this petition in the alternative either as a request to approve the change pursuant to GEN-2 or as an amendment pursuant to 20 CCR Section 1769(a)(1). In the event that a petition to amend is determined to be necessary, SDG&E believes that, after review by Commission Staff, the proposed change could be approved pursuant to section 1769(a)(2), since there is no possibility of a

significant environmental impact, no change of a condition of certification, and continued compliance with LORS.

The following sections of this petition contain further information that is required pursuant to evaluation of the change pursuant to Condition GEN-2 or 20 CCR Section 1769(a)(1), Post Certification Amendments and Changes.

2.0 DESCRIPTION OF PROPOSED MODIFICATION (Sec. 1769(a)(1)(A))

Combustion turbines lose output as the inlet air to the turbine compressor becomes warmer in summer conditions. By cooling the air, the air density increases, and the turbine compressor is more efficient. The higher volume of denser air allows the turbine to maintain higher output and improve efficiency.

The inlet chiller can achieve colder inlet temperatures than evaporative coolers on hot, humid summer days, because an evaporative cooler is limited in effectiveness by the wet bulb temperature. The wet bulb temperature is highest on warm, summer days. The inlet chiller can cool the inlet air to near 50 ^{o}F regardless of ambient temperatures and humidity.

A centralized chiller plant of 9,000 tons of refrigeration capacity is proposed to serve the two GE PG7241 combustion turbines of the PEC. The capacity of the chiller plant is sized to provide 4500 tons of cooling for each turbine, such that 50 ^{o}F of compressor inlet air temperature will be maintained at design ambient conditions of 92 ^{o}F at 30% relative humidity. The plant output will be approximately 5% higher than it would be for a typical warm summer day.

The location of the chiller equipment will be at the South side of the cooling tower. The refrigeration section comprises of, four, closed loop compressor centrifugal chillers manufactured by York International. CFC free, R-134a technology will be used for the refrigerant. The chillers are arranged in pairs of serial counterflow configuration. The power supply of the chiller system will be from the existing 5kV Auxiliary Power Module Building. The chilled water is supplied through a common distribution pipeline. The equipment will be housed in a metal frame enclosure mounted on a concrete slab foundation. The structure will measure 120' x 60' and 22' high at the highest point. It will be located immediately adjacent to the south side of the cooling tower. The area to be occupied was already filled and graded during construction of the plant. The structure is not expected to be visible offsite since it is lower than existing structures and also is generally within the boundaries of the existing sound walls.

The proposed routing of the over-ground, rack-mounted chilled water pipe and electrical conduits is along the edge of the western service road. The inlet air chilled water coils of

the two gas turbines will be connected to the main supply line routed underneath of the inlet air ducts and high voltage electrical banks. The new chilled water coils would be installed in place of the existing evaporative cooler sections of the Donaldson filter houses, downstream of the inlet air filters. The system will be designed to drain the coils during any potential ambient freezing conditions.

Three (3) 50% variable speed pumps, located in the chiller building, provide pumping for the chilled water loop. The variable flow system provides optimum efficiency and high turndown ratio of the system in all operating conditions. To provide optimum and reliable operation, the system is equipped with a CHW bypass live and control valve for freeze - protection of the chiller evaporators.

A modulating chilled water flow control valve provides the temperature control of the gas turbine inlet air. The control system will also provide various Gas Turbine Generator protection, permissive, alarm, automatic startup, and shutdown communications for the chiller plant controller via Ethernet backbone. Standard chiller control panels integrated in a PLC based Chiller Plant Automation System will provide interfaces to MK VI via a serial link. All significant data and control points will be through the MK VI. A conceptual drawing depicting and proposed inlet air cooling equipment is set forth in Appendix 1.

3.0 NECESSITY (Sec. 1769(a)(1)(B))

The proposed change is needed to make the full capacity of the plant available during the summer peak period. The currently installed evaporative cooler system cannot achieve full capacity during hot summer days because evaporative coolers are least effective under hot summer conditions. The modification will make approximately 40 MW of additional capacity available to serve summer peak load needs. In essence, the change in the method of inlet air cooling will enable the plant to achieve the same output in the summer that can currently be achieved in winter conditions. There will be no change in the rated capacity of the plant.

4.0 TIMING (Sec. 1769(a)(1)(C) and (D))

SDG&E assumed ownership of the PEC about three years after issuance of the Final Decision and certification to Palomar Energy, LLC. Since taking over operation of the plant on March 31, 2006, SDG&E undertook a number of engineering and design reviews to determine if plant operations could be improved to better serve the needs of SDG&E ratepayers. SDG&E has also benefited from experience gained operating the plant since assuming ownership. This “fine tuning” could not have taken place during the licensing proceeding because SDG&E was not the applicant, the plant was not yet operating, and Palomar Energy brought its own objectives to the development of the project for the

merchant market. The modification of inlet air cooling method does not change or undermine the assumptions, rationale, findings, or other bases of the Final Decision. The change complies with all laws, ordinances, regulations and standards, does not have a significant environmental impact, and does not require the change of any condition of certification or verification.

5.0 ANALYSIS OF THE EFFECT OF THE MODIFICATIONS ON THE ENVIRONMENT (Sec. 1769(a)(1)(E))

The requested equipment change will have no significant effects on any of the technical areas analyzed in the August 2003 Final Commission Decision. No changes to conditions of certification are requested. No change in water use is expected. A comparison of air emissions to permit limits is set forth in Appendix 2.

Utilization of the more effective inlet air chilling method during summer conditions is conservatively estimated to increase hourly emissions of oxides of nitrogen during the summer by only about .5 pounds due entirely to a slight increase in mass fuel flow when the combustion is enabled to operate at full capacity. Actual hourly and annual emissions are currently below permitted limits. NOx emissions will only change from an average of 10.2 to 10.7 pounds per hour based upon 2006 emissions data previously submitted to the San Diego Air Pollution Control District and the Commission. This compares to hourly emission limits in the Final Decision of 13.4 pounds when operating without duct burners and 14.9 pounds when operating with duct burners. Annual average NOx emissions are projected to increase less than 1 ton per year as compared to an annual emissions limit of 104.3 tons. Emission concentration limits will continue to be met. As further demonstrated in Appendix 2, actual emissions will continue to be well under permitted pound per hour and annual emissions that were found not to have significant environmental effects during the original licensing of the PEC. The projected emissions are within the envelope of conditions for which air quality modeling was previously conducted and shown to be within applicable air quality standards.

6.0 COMPLIANCE WITH LAWS, ORDINANCES, REGULATIONS AND STANDARDS (LORS) (Sec. 1769(a)(1)(F))

As noted, the proposed change in method of inlet air cooling will not affect the ability of the project to meeting existing air emissions limitations. The equipment change will not affect compliance with any other LORS requirement. Therefore, the proposed modification is not anticipated to impact SDG&E's ability to comply with the applicable LORS, as listed in Appendix A of the Commission Final Decision.

7.0 POTENTIAL EFFECTS ON PUBLIC AND NEARBY PROPERTY OWNERS (Sec. 1769(a)(1)(G and I))

The proposed change will not affect PEC facilities, equipment or operations other than to increase the ability to utilize the full capacity of the plant's electrical generation output year-round. The requested modification will not have significant adverse environmental impacts and will comply with all applicable LORS. Thus, the proposed equipment change is not anticipated to affect nearby property owners or parties in the application proceedings or the public

8.0 LIST OF PROPERTY OWNERS (Sec. 1769(a)(1)(H))

A list of property owners 1,000 feet of the plant site is provided as Appendix 3 to this petition.

9.0 SUMMARY OF REQUEST

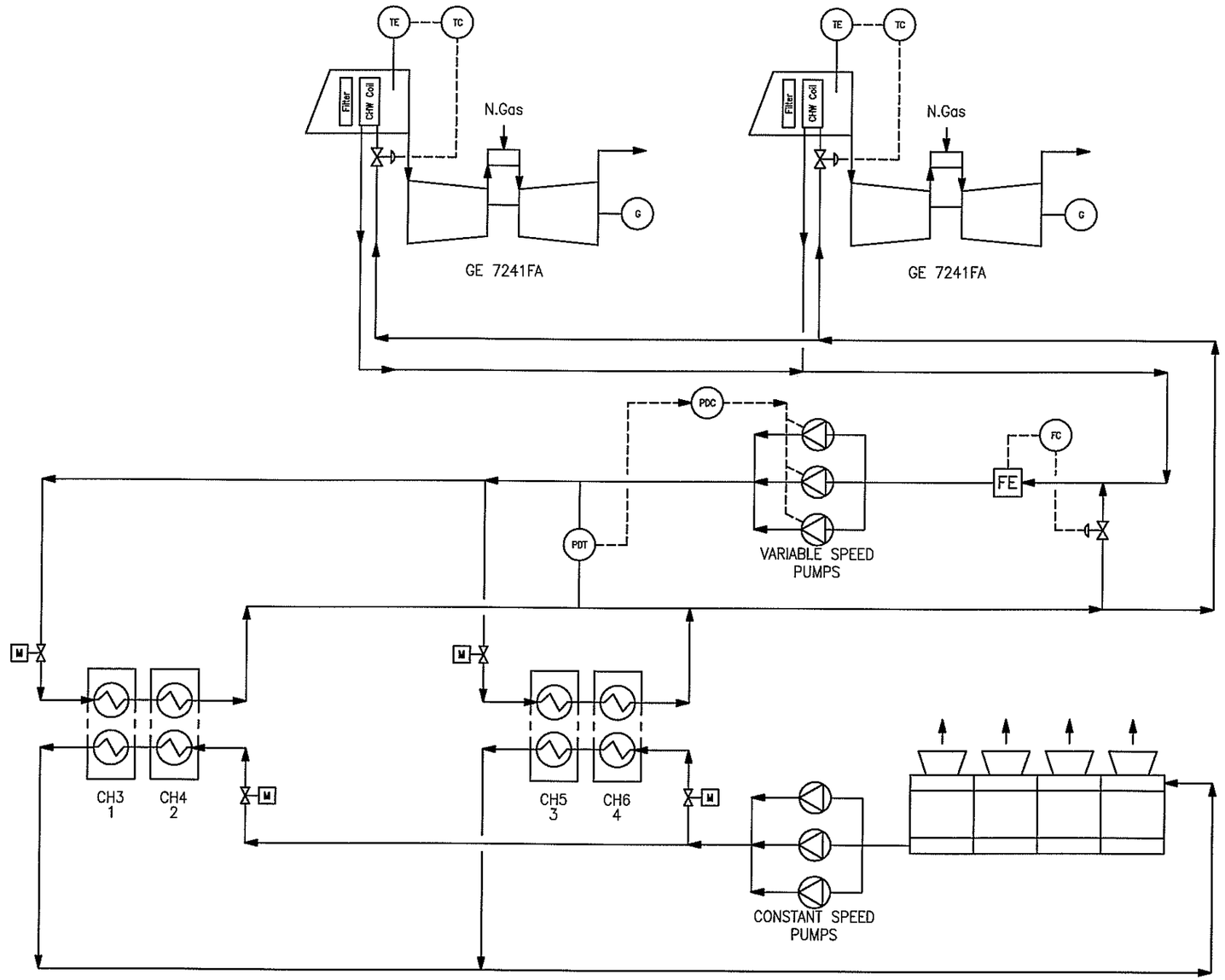
As demonstrated above, the requested change to the PEC's Final Decision is not anticipated to have an adverse effect on the public or the environment. The change will not affect compliance with applicable LORS. Accordingly, SDG&E requests that the Energy Commission Staff expedite review of this petition, and request Commission approval of the proposed modified conditions in accordance with either Condition of Certification GEN-2 or Title 20 CCR Section 1769.

APPENDIX 1
CONCEPTUAL DRAWINGS

SIZE	DWG NO	SH	REV
D	M-106	1	

REVISIONS

REV	DESCRIPTION	DATE	APPROVED



THIRD ANGLE PROJECTION

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UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN INCHES
TOLERANCES ON:
2 PL DECIMALS ±
3 PL DECIMALS ±
ANGLES ±
FRACTIONS ±

PROJECT
FIRST NAME
LAST NAME IF ANY

MADE FOR
FIRST NAME
LAST NAME IF ANY

PRELIMINARY

SIGNATURES		DATE
DRAWN	XXXXXXX	YY-MM-DD
CHECKED	XXXXXXX	YY-MM-DD
PROJ ENG	XXXXXXX	YY-MM-DD
ISSUED	XXXXXXX	YY-MM-DD
CIVIL	XXXXXXX	YY-MM-DD
ELECTRICAL	XXXXXXX	YY-MM-DD
MECHANICAL	XXXXXXX	YY-MM-DD
CONTROLS	XXXXXXX	YY-MM-DD

GE ENERGY

GENERAL ELECTRIC COMPANY
GENERAL ELECTRIC INTERNATIONAL, INC.
POWER GENERATION-POWER PLANT SYSTEMS

PALOMAR ENERGY
PROCESS FLOW DIAGRAM
ALTERNATE DESIGN OPTION A

FIRST MADE FOR ML- 510XXXXX XXXX

SIZE	CAGE CODE	DWG NO
D		M-106
SCALE NONE		SHEET 1

D M-106 1

APPENDIX 2
EMISSIONS ANALYSIS

ANALYSIS OF EMISSIONS ASSOCIATED WITH PALOMAR CHILLER INSTALLATION

	Average Emissions Before Chiller (lbs/hr) [1]	While Chilling (lbs/hr) [2]	Hourly Permit Limit (lbs/hr) [3]	Chiller Annual Increase (tons/year) [4]	PSD Emissions Threshold (tons/year)	Note:
NOx	**10.2**	**10.70**	**14.9**	**0.82**	**40**	Used actual current emissions from CEMS, adjusted for fuel flow increase
CO	**0.39**	**0.41**	**18.1**	**0.03**	**100**	Used source test data, adjusted for 4.95% fuel flow increase
VOC	**ND**	**ND**	**7.3**	**ND**	**40**	Per source testing, VOC's not detectable
	ND = Not Detectable					
PM10	**9.8**	**10.29**	**14.0**	**0.79**	**15**	Used the average of the two turbines during source testing, adjusted for 4.95% fuel flow increase. Particulate matter assumed to increase by average of 4.95% due to increase in fuel gas flow, only while chilling.
SO2	**1.00**	**1.05**	**4.5**	**0.08**	**40**	SO2 will increase by average of 4.95% due to increase in gas flow, only while chilling. SO2 emissions factor 0.0006 lb/MMBtu
Lead:	**NA**	**NA**	**NA**	**NA**	**0.06**	Lead is not measurable in natural gas.

Assumptions:

- **Assumes chiller will only be used when at or near base load.**
- **Assumes chiller values assume chilling to 50 deg F. Actual chiller operation can chill to any temperature between ambient and 50 deg F, as required to meet load demand. Chiller temperatures above 50 deg F will result in smaller emission increases.**
- **Assumes the chiller will run for 2500 hours during the 6 summer months, 1500 reduced load (50% of summer load) hours during 6 winter months. Total equivalent operational hours 3250 hours per year per combustion turbine. This is a very conservative assumption (i.e., likely overstates use of air chiller).**
- **Assumes increased fuel consumption:** (See Fuel Data Sheets)
  Average before chiller installation: 20.2 lbs/sec
  With chiller at 50 deg F: 21.2 lbs/sec
  Net increase with chiller: 1.0 lbs/sec 4.95%
- **Assumes increased annual fuel consumption:** 3250 hrs * 1.0 lbs/sec * 3600 sec/hr * 22848 Btu/lb = **267,322 MMBtu/year**

Notes:

[1] **The "Before Chilling" emissions are based on either actual CEMS operating data, Source Testing Data or emissions factors. See specific pollutant Notes. We believe these estimates are representative of and similar to average actual annual emissions.**

[2] **The "While Chilling" emissions are computed by multiplying the "Before Chiller" mass emissions by the fuel flow increase percentage.**

[3] **"Hourly Limit" corresponds to permitted limits during normal operation with duct-firing, and is generally the maximum rate that was used for modeling. SO2 was calculated based on the permit application.**

[4] **The Annual Increase is the difference between the "While Chilling" emissions and the "Before Chiller" Emissions, multiplied by the 3250 equivalent annual hours, and converted to tons.**

APPENDIX 3
PROPERTY OWNERS LIST

PROPERTY OWNERS WITHIN 1,000 FEET

OF THE POWER PLANT SITE

	PARCEL	OWNERFIRST	OWNERLAST	MAILNUMBER	MAILSTREET	MAILCITY	MAILSTATE	MAILZIP
1	232 030 33 00	Jrm-Ertc I Lp		1040	S Andreasen Dr #200	Escondido	CA	92029
2	232 040 21 00	Energy Resources	Sempra	101	Ash St	San Diego	CA	92101
3	232 040 22 00	Arthur	Astor	10951	Saddlery Rd	Santa Ana	CA	92705
4	232 051 02 00	Palomar Energy Llc		101	Ash St	San Diego	CA	92101
5	232 051 03 00	Palomar Energy Llc		101	Ash St	San Diego	CA	92101
6	232 051 04 00	Sempra Energy Resources		101	Ash St	San Diego	CA	92101
7	232 051 05 00	Sempra Energy Resources		101	Ash St	San Diego	CA	92101
8	232 051 06 00	Royann Ents Llc		14085	Arbolitos Dr	Poway	CA	92064
9	232 051 18 00	L B A REALTY FUND-HOLDING CO I		4440	Von Karman Ave #150	Newport Beach	CA	92660
10	232 051 25 00	DOWDY PROPERTIES			Po Box 3145	Escondido	CA	92033
11	232 051 40 00	MANUFACTURING & PRODUCTION SER		2222	Enterprise St	Escondido	CA	92029
12	232 051 49 00	TAYLOR FAMILY TRUST		2057	Aldergrove Ave	Escondido	CA	92029
13	232 051 50 00	Dennis W & Peggie A	Kay	320	Market Pl	Escondido	CA	92029
14	232 410 05 00	GOLDEN TRUST I		2316	Vineyard Ave	Escondido	CA	92029
15	232 410 06 00	Patricia A	Clark	2324	Vineyard Ave	Escondido	CA	92029
16	232 410 07 00	Randy G & Patricia A	Clark	2324	Vineyard Ave	Escondido	CA	92029
17	232 410 08 00	Patricia A	Clark	2324	Vineyard Ave	Escondido	CA	92029
18	232 410 09 00	Robert Grant	Miller	30518	Via Maria Elena	Bonsall	CA	92003
19	232 410 10 00	OSWALD FAMILY TRUST		555	Lawndale Pl	San Marcos	CA	92069
20	232 410 13 00	Thomas M	Cordova	13220	Cambridge St	Santa Fe Springs	CA	90670
21	232 410 14 00	Thomas M	Cordova	13220	Cambridge St	Santa Fe Springs	CA	90670
22	232 410 15 00	Thomas M	Cordova	13220	Cambridge St	Santa Fe Springs	CA	90670
23	232 410 16 00	John M & Carole A	Koyle		Po Box 274	Valley Center	CA	92082
24	232 410 17 00	Gary	Korabeck	2604b	El Camino Real #360	Carlsbad	CA	92008
25	232 410 19 00	Louis A & Hugh L	Hartjen		Po Box 1748	San Marcos	CA	92079
26	232 410 20 00	Louis A & Hugh L	Hartjen		Po Box 1748	San Marcos	CA	92079
27	232 410 21 00	Louis A & Hugh L	Hartjen		Po Box 1748	San Marcos	CA	92079
28	232 410 22 00	COLBORN BONNIE L FAMILY TRUST		17295	Prado Rd	San Diego	CA	92128
29	232 410 23 00	COLBORN BONNIE L FAMILY TRUST		17295	Prado Rd	San Diego	CA	92128
30	232 410 24 00	COLBORN BONNIE L FAMILY TRUST		17295	Prado Rd	San Diego	CA	92128
31	232 410 25 00	COLBORN BONNIE L FAMILY TRUST		17295	Prado Rd	San Diego	CA	92128
32	232 410 28 00	HUNTER FAMILY REVOCABLE TRUST		2333	Vineyard Ave	Escondido	CA	92029
33	232 410 30 00	ALEXANDER FAMILY TRUST		12220	El Camino Real #100	San Diego	CA	92130
34	232 410 31 00	Robert & Joan C	McCullough	3958	Foxley Dr	Escondido	CA	92027
35	232 410 32 00	HALE STREET ASSOCIATIONS L L C		9471	New Colt Ct	El Cajon	CA	92021
36	232 410 33 00	HALE STREET ASSOCIATIONS L L C		9471	New Colt Ct	El Cajon	CA	92021
37	232 410 34 00	HALE STREET ASSOCIATIONS L L C		9471	New Colt Ct	El Cajon	CA	92021
38	232 410 35 00	PARKER FAMILY TRUST 05-27-98		936	Luna Vista Dr	Escondido	CA	92025
39	232 410 36 00	BETZ JAMES B TRUST 08-19-99		5424	Rocking Horse Ln	Oceanside	CA	92057
40	232 410 45 00	CALPEAK POWER-ENTERPRISE L L C		7365	Mission Gorge Rd #c	San Diego	CA	92120
41	232 410 46 00	ENTERPRISE HEIGHTS INDUSTRIAL		5414	Oberlin Dr #140	San Diego	CA	92121

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5	232 051 03 00	Palomar Energy Llc		101	Ash St	San Diego	CA	92101
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24	232 410 17 00	Gary	Korabeck	2604b	El Camino Real #360	Carlsbad	CA	92008
25	232 410 19 00	Louis A & Hugh L	Hartjen		Po Box 1748	San Marcos	CA	92079
26	232 410 20 00	Louis A & Hugh L	Hartjen		Po Box 1748	San Marcos	CA	92079
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29	232 410 23 00	COLBORN BONNIE L FAMILY TRUST		17295	Prado Rd	San Diego	CA	92128
30	232 410 24 00	COLBORN BONNIE L FAMILY TRUST		17295	Prado Rd	San Diego	CA	92128
31	232 410 25 00	COLBORN BONNIE L FAMILY TRUST		17295	Prado Rd	San Diego	CA	92128
32	232 410 28 00	HUNTER FAMILY REVOCABLE TRUST		2333	Vineyard Ave	Escondido	CA	92029
33	232 410 30 00	ALEXANDER FAMILY TRUST		12220	El Camino Real #100	San Diego	CA	92130
34	232 410 31 00	Robert & Joan C	McCullough	3958	Foxley Dr	Escondido	CA	92027
35	232 410 32 00	HALE STREET ASSOCIATIONS L L C		9471	New Colt Ct	El Cajon	CA	92021
36	232 410 33 00	HALE STREET ASSOCIATIONS L L C		9471	New Colt Ct	El Cajon	CA	92021
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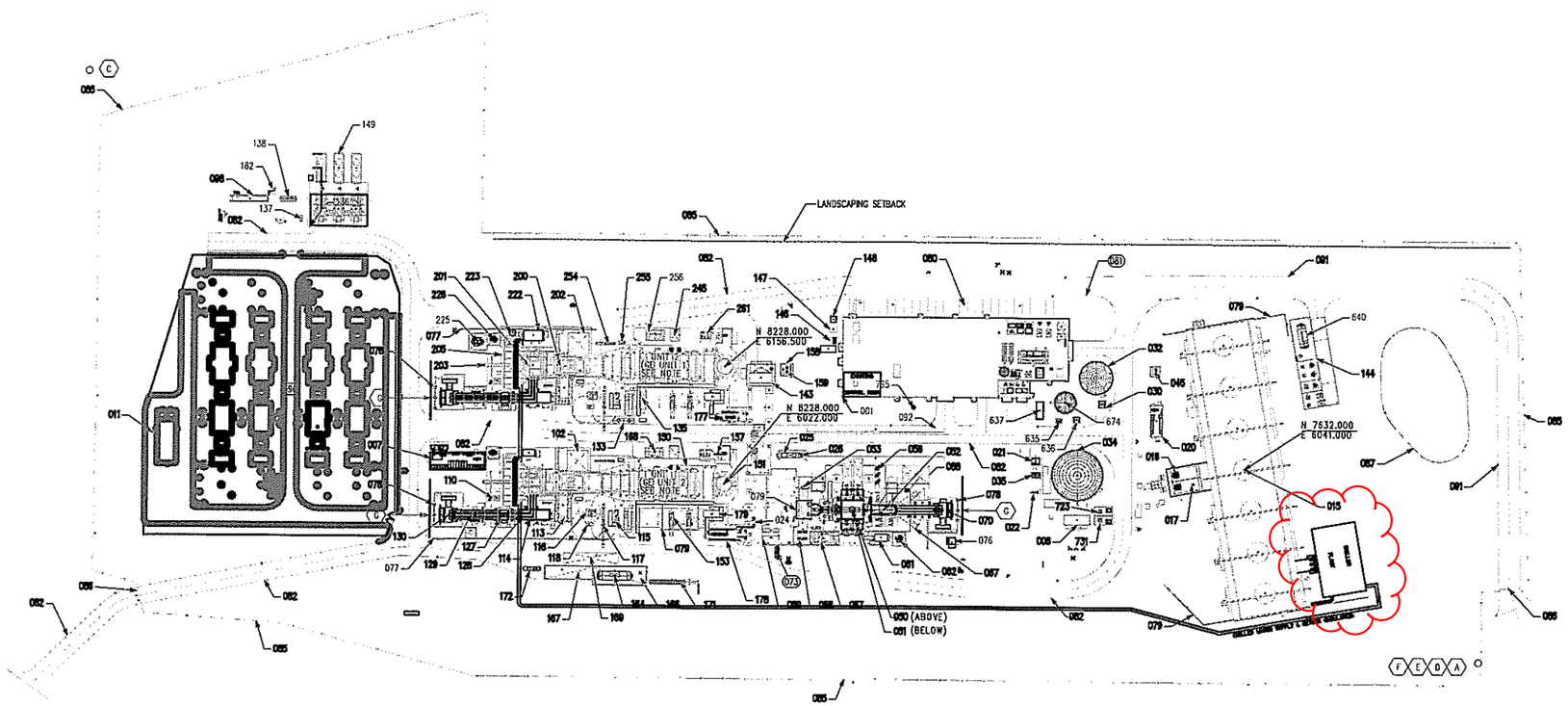
39	232 410 36 00	BETZ JAMES B TRUST 08-19-99		5424	Rocking Horse Ln	Oceanside	CA	92057
40	232 410 45 00	CALPEAK POWER-ENTERPRISE L L C		7365	Mission Gorge Rd #c	San Diego	CA	92120
41	232 410 46 00	ENTERPRISE HEIGHTS INDUSTRIAL		5414	Oberlin Dr #140	San Diego	CA	92121

42	232 410 47 00	William A & Kay K	Myers	1915	Briargate Pl	Escondido	CA	92029
43	232 410 48 00	Gregory A	Montegna		Po Box 12006	San Diego	CA	92112
44	232 410 49 00	HITT ENTERPRISES		309	Enterprise St #01	Escondido	CA	92029
45	232 410 50 00	HITT ENTERPRISES		309	Enterprise St #02	Escondido	CA	92029
46	232 410 51 00	CIRCUIT LOGIC INC		311	Enterprise St #1	Escondido	CA	92029
47	232 410 52 00	CIRCUIT LOGIC INC		311	Enterprise St #1	Escondido	CA	92029
48	232 410 53 00	MINOR FAMILY TRUST 08-22-03		3132	Montesano Rd	Escondido	CA	92029
49	232 410 54 00	MINOR FAMILY TRUST 08-22-03		3132	Montesano Rd	Escondido	CA	92029
50	232 410 55 00	DANIEL F SCHALDACH INC		301	Enterprise St #3	Escondido	CA	92029
51	232 410 57 00	Thomas M	Cordova	13220	Cambridge St	Santa Fe Springs	CA	90670
52	232 410 58 00	VINEYARD-ESCONDIDO L L C		10000	Jefferson Blvd	Culver City	CA	90232
53	232 422 02 00	MITCHELL ALFRED V TRUST		525	W El Norte Pkwy #239	Escondido	CA	92026
54	232 422 03 00	MITCHELL ALFRED V TRUST		525	W El Norte Pkwy #239	Escondido	CA	92026
55	232 422 04 00	John P	Herlevic	617	S Vinewood St	Escondido	CA	92029
56	232 422 05 00	John P	Herlevic	617	S Vinewood St	Escondido	CA	92029
57	232 422 06 00	WARD FAMILY REVOCABLE TRUST		3388	Garfield St	Carlsbad	CA	92008
58	232 422 07 00	WARD FAMILY REVOCABLE TRUST		3388	Garfield St	Carlsbad	CA	92008
59	232 422 11 00	RADOS BROTHERS			Po Box 15128	Santa Ana	CA	92735
60	232 422 12 00	RADOS BROTHERS			Po Box 15128	Santa Ana	CA	92735
61	232 422 13 00	QUIRK FAMILY REVOCABLE ESTATED		2973	Harbor Blvd #501	Costa Mesa	CA	92626
62	232 423 01 00	Medulla		748	S Vinewood St #a	Escondido	CA	92029
63	232 423 02 00	MEDULLA REVOCABLE LIVING TRUST		748	S Vinewood St #a	Escondido	CA	92029
64	232 423 03 00	ZATKIN FAMILY TRUST		6346	Via Maria	La Jolla	CA	92037
65	232 423 04 00	ZATKIN FAMILY TRUST		6346	Via Maria	La Jolla	CA	92037
66	232 423 21 00	ZATKIN FAMILY TRUST		6346	Via Maria	La Jolla	CA	92037
67	232 423 22 00	ZATKIN FAMILY TRUST		6346	Via Maria	La Jolla	CA	92037
68	232 423 23 00	ZATKIN FAMILY TRUST		6346	Via Maria	La Jolla	CA	92037
69	232 423 28 00	Judd & Hines-Goldfeder Raye	Goldfeder	621	S Andreasen Dr	Escondido	CA	92029
70	232 423 29 00	John R & Caroline S	Kure	622	S Vinewood St	Escondido	CA	92029
71	232 470 19 00	BYPASS FAMILY TRUST		8335	Caminito Linterna	La Jolla	CA	92037
72	232 470 20 00	Madderbush Llc		1863	Commercial St	Escondido	CA	92029
73	232 512 01 00	Sempra Energy Resources		101	Ash St	San Diego	CA	92101
74	232 512 02 00	J R M-E R T C I L P		1040	S Andreasen Dr #200	Escondido	CA	92029
75	232 512 19 00	David	Buckley	1405	Kona Kai Ln	Escondido	CA	92029
76	232 512 20 00	Randy M	Panno	1403	Kona Kai Ln	Escondido	CA	92029
77	232 512 21 00	Lewis A & Jennifer K	Harkleroad	363	Woodland Hills Dr	Escondido	CA	92029
78	232 512 23 00	Lewis A & Jennifer K	Harkleroad	363	Woodland Hills Dr	Escondido	CA	92029
79	232 512 24 00	Ronald G & Carolyn W	Hammock	1420	Kona Kai Ln	Escondido	CA	92029
80	232 530 02 00	VINEYARD CORNERS INDUSTRIAL CE		990	Highland Dr #202	Solana Beach	CA	92075
81	232 530 03 00	FOUNDATION OF PRAISE INC		1616	Circa Del Lago #c311	San Marcos	CA	92078
82	232 530 04 00	SUNDANCE INVESTMENTS II L P		125	State Pl	Escondido	CA	92029
83	232 530 05 00	PRICE FAMILY TRUST 05-22-87		106	State Pl	Escondido	CA	92029

84	232 530 08 00	SUNDANCE INVESTMENTS L P		125	State Pl	Escondido	CA	92029
85	232 530 09 00	Kenneth H & Marjorie M	Blanchard	125	State Pl	Escondido	CA	92029
86	232 530 10 00	Kenneth H & Marjorie M	Blanchard	125	State Pl	Escondido	CA	92029
87	232 530 11 00	Kenneth H & Marjorie M	Blanchard	125	State Pl	Escondido	CA	92029
88	232 530 12 00	VINEYARD CORNERS INDUSTRIAL		990	Highland Dr #202	Solana Beach	CA	92075
89	232 550 01 00	ANDERSON FAMILY TRUST		943	S Andreasen Dr	Escondido	CA	92029
90	232 550 05 00	Gerald L Tr & Joyce	Mohrmann	2080	Wineridge Pl	Escondido	CA	92029
91	232 550 07 00	Wineridge Corners			Po Box 178870	San Diego	CA	92177
92	232 550 08 00	Wineridge Corners			Po Box 178870	San Diego	CA	92177
93	232 550 09 00	Santos L L C		1526	Sterling Ct	Escondido	CA	92029
94	232 550 10 01	MCBRIDE OF HART LLC		9925	Businesspark Ave #a	San Diego	CA	92131
95	232 550 10 02	Georgia L	Hurst	938	S Andreasen Dr #f	Escondido	CA	92029
96	232 550 10 03	McBride & Hart L L C		9925	Businesspark Ave #a	San Diego	CA	92131
97	232 550 10 04	McBride & Hart L L C		9925	Businesspark Ave #a	San Diego	CA	92131
98	232 550 10 05	Joseph	Furmansky	13700	Stowe Dr	Poway	CA	92064
99	232 550 10 06	Future Holdings L L C			Po Box 270198	San Diego	CA	92198
100	232 550 11 00	V I T PROPERTIES L L C		2063	Wineridge Pl	Escondido	CA	92029
101	232 550 12 00	ZUEST INDUSTRIAL BUILDING		2061	Wineridge Pl #150	Escondido	CA	92029
102	232 550 13 00	FORNACA BAKERIES INC		2069	Aldergrove Ave	Escondido	CA	92029
103	232 550 14 00	KENT FAMILY TRUST		3114	Slivkoff Dr	Escondido	CA	92027
104	232 550 15 00	DINDINGER FAMILY TRUST		752	Singing Heights Dr	El Cajon	CA	92019
105	232 550 18 00	CW INDUSTRIAL VENTURE B L L C			Po Box 4900	Scottsdale	AZ	85261



NO	EQUIPMENT TITLE	NO	EQUIPMENT TITLE
001	ADMINISTRATION BUILDING	127	GENERATOR BREAKER
006	FIRE PUMP MODULE	128	ISO PHASE BUS DUCT
007	5KV MODULE	129	AUXILIARY TRANSFORMER
011	SWITCHYARD CONTROL BUILDING (BY OTHERS)	130	CTG STEP-UP TRANSFORMER
		133	WATER WASH DRAINS TANK
015	COOLING TOWER	135	WATER WASH SKID
016	CIRCULATING WATER PUMPS	136	FUEL GAS COMPRESSORS ENCLOSURE
017	AUXILIARY CIRCULATING WATER PUMP	137	FUEL GAS COMPRESSOR DRAINS TANK
020	COOLING TOWER ELECTRICAL MODULE	138	FUEL GAS REGULATING SKID
021	SERVICE WATER PUMP SKID	143	CYCLE CHEMICAL FEED ENCLOSURE
022	BACKUP CIRCULATING WATER MAKEUP PUMP	144	COOLING TOWER CHEMICAL FEED AREA
024	CLOSED COOLING WATER HEAD TANK	146	FUTURE EMERGENCY DIESEL GENERATOR (BY OWNER)
025	OIL/WATER SEPARATOR		
026	OIL/WATER SEPARATOR LIFT PUMPS	147	12KV DISTRIBUTION EMERGENCY TRANSFORMER
030	DEMIN WATER PUMP SKID		
032	DEMIN WATER STORAGE TANK	148	HIGH VOLTAGE DISCONNECT SWITCH FOR 12KV DIST TRANSFORMER (BY OWNER)
034	RAW WATER STORAGE TANK		
035	RO SUPPLY PUMP SKID	149	AIR COOLED AFTER COOLERS
045	WASTE WATER COLLECTION AND TRANSFER SUMP	150	HRSG UNIT 1
		151	HRSG STACK
050	STEAM TURBINE	153	BOILER FEEDWATER PUMPS
051	SURFACE CONDENSER	157	BLOWDOWN TANK
052	STEAM TURBINE GENERATOR	158	BLOWDOWN DRAIN SUMP
053	GLAND STEAM CONDENSER	159	BLOWDOWN DRAIN SUMP PUMPS
056	CONDENSATE PUMPS	164	AQUEOUS AMMONIA STORAGE TANK
057	STG LUBE OIL MODULE	165	AMMONIA FORWARDING PUMPS
058	CLOSED COOLING WATER PUMPS	167	AMMONIA CONTAINMENT AREA
059	CLOSED COOLING WATER HEAT EXCHANGERS	168	AMMONIA INJECTION SKID
061	STG EXCITATION UNIT EQUIPMENT (GEC)	169	AMMONIA UNLOADING CONTAINMENT AREA
062	STG EXCITATION TRANSFORMER	171	H2 BULK TRAILER STORAGE
067	STG ROTOR REMOVAL AREA	172	CO2 BULK TRAILER STORAGE
070	STG STEP-UP TRANSFORMER	177	HRSG 2 MCC MODULE
073	DUPLEX BASKET STRAINER	178	HRSG 1/STG MCC MODULE
076	STEAM TURBINE FIRE PROTECTION VALVE HOUSE	179	SAMPLE PANEL
		182	FUEL GAS SCRUBBER SKID
077	SOUND BARRIER (OPTIONAL)	200	COMBUSTION TURBINE UNIT 2
078	DEADEND STRUCTURE	201	COMBUSTION TURBINE GENERATOR
079	SOUND BARRIER	202	TURBINE ROTOR REMOVAL AREA
080	PARKING AREA	203	GENERATOR REMOVAL AREA
081	CURB	205	AIR INLET FILTER
082	ROADWAY-20' WIDE	222	UNIT EXCITATION/LCI EQUIPMENT
085	SITE FENCE	223	DC LINK REACTOR
086	GATE	225	GE LCI ISOLATION TRANSFORMER
087	STORM WATER POND	226	EXCITATION TRANSFORMER
088	STG MAINTENANCE AREA	245	SCR REMOVAL AREA
090	PLANT SWITCHYARD (BY OTHERS)	254	DUCT BURNER PRESSURE REDUCING SKID
091	ROADWAY 25' WIDE	255	HRSG DUCT BURNER VALVE SKID
092	TEMPORARY CRANE FOUNDATIONS	256	HRSG2 SCANNER COOLING AIR BLOWER SKID
098	FUEL GAS CHROMATOGRAPH AND METERING ASSEMBLY	261	HRSG FEEDWATER PREHEATER PUMPS
		635	DEMIN RO FEED PUMP SKID
102	TURBINE ROTOR REMOVAL AREA	636	CTG EVAP COOLER MAKE UP WATER PUMP SKID
110	AIR PROCESS SKID		
113	LUBE OIL/GAS VALVE MODULE (ACCESSORY MODULE)	637	FUTURE MIXED BED
		640	CIRCULATING WATER SULFURIC ACID TANK
114	PACKAGED ELECTRICAL ELECTRONIC CONTROL CENTER	674	RO PERMEATE STORAGE TANK
		723	RAW WATER STORAGE SODIUM HYPOCHLORITE PUMP SKID
115	CO2 FIRE PROTECTION SKID		
116	FUEL GAS KNOCKOUT TANK AND FILTER/SEPARATOR SKID	731	RAW WATER STORAGE SODIUM BROMIDE PUMP SKID
117	FUEL GAS HEAT EXCHANGER	765	SANITARY SUMP PUMP
118	FUEL GAS STARTUP HEATER		

NOTE
1. GE UNIT 1 EQUIPMENT TO BE INSTALLED ON THE EAST UNIT (UNIT 2 POWER TRAIN).
GE UNIT 2 EQUIPMENT TO BE INSTALLED ON THE WEST SIDE (UNIT 1 POWER TRAIN).

TIE-IN LOCATIONS

- (A) POTABLE WATER TIE-IN
- (C) FUEL GAS TIE-IN
- (D) RECLAIM WATER AND FIRE PROTECTION TIE-IN
- (E) SANITARY SEWER
- (F) BRINE RETURN
- (G) EPC/SWITCHYARD CONTRACT 230KV CABLE INTERFACE POINT

PREVAILING WIND
120°
PLANT NORTH N
60 0 60 120
SCALE IN FEET
SCALE: 1" = 60'-0"

GE ENERGY
GENERAL ELECTRIC COMPANY
GENERAL ELECTRIC INTERNATIONAL, INC.
POWER GENERATION-POWER PLANT SYSTEMS

PALOMAR ENERGY
INLET AIR CHILLING SYSTEM

FIRST MADE FOR ML-510XXXXX XXXX

REV	DESCRIPTION	DWN	CHK	APP	DATE
1	CONFORMED TO CONSTRUCTION RECORDS	DNL	MAL	S.K.	08-22-06
0	ISSUED FOR CONSTRUCTION	PAA	PDW	S.K.	03-16-06

KIEWIT INDUSTRIAL CO.
A Kiewit Company

SEMPRA ENERGY RESOURCES
PALOMAR ENERGY, LLC

PALOMAR ENERGY PROJECT
ESCONDIDO, CALIFORNIA

Bibb and associates
8455 Lenexa Drive
Lenexa, Kansas 66214

REGISTERED PROFESSIONAL ENGINEER
STEVEN A. GARDNER
No. 55133
Exp. 06-30-2007
MECHANICAL
STATE OF CALIFORNIA

PLOT PLAN

	by	date
DESIGNED	PAA	02-02-04
DRAWN	PAA	02-02-04
CHECKED	PDW	03-10-06
APPROVED	S.K.	03-10-06

DRAWING NUMBER
2004-005-PP-001

#DRAWINGS #REVISIONS #STAMPS #DATES