

Report of Gary DeShazo

2007 Local Area Reliability Service

August 2006

Final Version

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BACKGROUND

The need for RMR Generation arose from the restructuring of the California electric system in 1998. At that time, and consistent with the national trend toward restructuring and to foster a competitive generation market, the State directed the vertically integrated investor-owned utilities to turn operational control of their transmission assets to an independent system operator (the ISO) and to divest a portion of their generation assets (so as to prevent the exercise of generation market power by the incumbent utilities). As a consequence of this restructuring, what was once an *integrated* system where the utilities made conscious trade-offs between investing in transmission and generation assets became a disaggregated system where the ISO planned the transmission system and load-serving entities primarily relied on the market (merchant or third-party investment in generation) to satisfy new demand. As a result, where in the past the vertically integrated utility could use a mix of resources (transmission and generation) to both meet demand and operate the system reliably, the ISO did not have generation resources readily available to meet local area reliability needs; that is, to ensure that the bulk electrical system was operated within the Applicable Reliability Criteria.

Furthermore, when the vertically integrated utilities sold their thermal generating units at the commencement of electric industry restructuring, they sold the units needed to meet local area reliability needs. Therefore, prior to ISO start-up, it was determined that the ISO needed to have these resources available to meet local reliability needs, and thus was born Reliability Must-Run or "RMR" Generation. The RMR Contract is intended to allow the ISO to maintain reliability and to curb the market power of units needed to maintain local area reliability by giving the ISO the ability to call on these units in real-time at cost-based prices. In addition, RMR units are able to collect a fixed option payment, to be negotiated between the RMR unit owner, the applicable Participating Transmission Owner, and the ISO, the purpose of which is to cover a portion of the unit's going-forward fixed costs. The RMR Contract is an annual contract that can be extended for a subsequent year by the ISO giving notice to the unit owner no later than October 1 of the expiring year. If the ISO does not extend the RMR Contract by October 1st of the expiring Contract Year, it may not be re-designated for the entire subsequent Contract Year except in very limited circumstances.

Each year, prior to determining which RMR Contracts to extend, the ISO identifies and designates generating units, along with transmission and load management alternatives through the LARS process capable of meeting local area reliability needs. The LARS process solicits proposals for generating units, transmission projects and load management alternatives to meet local area reliability needs, which the ISO can compare against the cost of maintaining existing RMR Contracts.

Based on the proposals received, Management makes its recommendations for RMR Contract extensions and terminations, and for approval of transmission projects, possible additional RMR Contracts, or contracts with load management alternatives that can replace an existing RMR Contract to meet new local area reliability needs.

Management's recommendation for each new RMR Contract, or any contract for load management alternatives, constitutes a conditional designation contingent upon execution of an RMR Contract or other contract with rates, terms and conditions acceptable to Management. Designation is conditional because there are generally insufficient resources within a local area to create effective competition among entities submitting proposals in the LARS process. Thus, it is incumbent upon the ISO, working with the Responsible Utilities (which are the entities that pay RMR owners under the RMR Contract) and the state agencies (CPUC and EOB) to negotiate acceptable rates, terms and conditions for any new RMR

Contracts or contracts with load management alternatives. Where it is not possible to reach agreement with the resources that are designated conditionally, Management recommends that it be given the authority to seek for and negotiate with alternative resource that will meet the identified reliability requirement whether or not the resource participated in the LARS process.

Finally, for some areas where a local area reliability need has been identified during the course of the LARS technical analysis, there are not a sufficient amount of resources identified through the LARS process to meet the need. In these deficient areas, Management recommends that it be given the authority to seek additional resources and, if these can be identified, to attempt to negotiate acceptable rates, terms and conditions for an RMR Contract.

The 2007 LARS process is a seven-step process:

1. The ISO Regional Transmission staff prepares technical studies identifying the reliability needs in all local reliability areas with existing market generation and transmission configuration.¹ These studies also identify the “effective” generating units – those units that can address reliability problems in these local areas.
2. A screening process is undertaken to identify those units eligible for an RMR Contract. Units smaller than 10 MW are ineligible for an RMR Contract unless those units are aggregated within a common area. Units subject to providing emergency service under mutual assistance agreements are also ineligible for an RMR Contract since it is presumed an RMR Contract is not necessary to ensure those units will operate as required for local reliability problems.
3. A competitive solicitation (“Request For Proposals”, or “RFP”) is conducted in which proposals for generating units, transmission projects and load management alternatives are submitted to meet identified local reliability needs.
4. The responses to the RFP are evaluated and the RMR required capacity units are presented to the Board for its approval.
5. The Local RA procurement results are presented by LSEs for consideration in satisfying the RMR required capacity.
6. The ISO evaluates the reliability benefits provided through the Local RA procurement and determines the units required for RMR designation.
7. RMR designations are implemented by extending or terminating existing RMR Contracts and negotiating new RMR Contracts as appropriate.

The LARS process includes a number of opportunities for stakeholder input in these steps. This input is incorporated into the next phase of each step. In this way most stakeholder concerns are addressed before management makes its final determination.

THE LARS RFP PROCESS

Following the communication of the preliminary technical analysis that identified an initial forecast of local reliability requirements, the ISO solicited proposals for load management alternatives, transmission projects, and generation resources to meet those reliability needs through the LARS 2007 RFP. The ISO

¹ For 2007 the local reliability areas include the Humboldt, North Coast/North Bay, Greater San Francisco Bay, Sierra, Stockton, Fresno, Los Angeles Basin, and San Diego County areas.

received responses to the LARS 2007 RFP that included four-generation facilities with units not currently under RMR Contracts. In addition, the ISO received a few responses from existing RMR Units in order to provide service with rates and terms different than the current RMR Contract. These responses are not listed herein because all Units under RMR Contract in 2006 were automatically evaluated in the 2007 LARS process under the rates and terms of their existing contracts as well as new rates and terms.

Geysers Power Company-LLC and Calpine each submitted proposals for effective generation resources not currently under contract as shown in Table 1 to meet reliability requirements for various local areas in the PG&E service area.

Table 1 – Effective Generation Proposals submitted for PG&E Service Area		
Company	Generation Facility	RMR Area
Geysers Power Company, LLC	Geysers Units not designated for 2006	North Coast and Greater Bay Area
Calpine Corporation	Metcalf Energy Center	Greater Bay Area

There were no proposals submitted for effective generation resources located in the Southern California Edison (“SCE”) service area.

The ISO received two proposals submitted to meet reliability needs in the San Diego area and these are summarized in Table 2.

Table 2 – Effective Generation Proposal submitted for SDG&E Service Area		
Company	Generation Facility	RMR Area
MMC	Chula Vista CT	San Diego
MMC	Escondido CT	

SUMMARY OF RESULTS

There is a decrease in total capacity for the 2007 required capacity as compared to 2006. The decrease is due mainly to new generation being built in LA Basin and San Diego as well as implementation of the CPUC RA program.

ISSUES

Critical Assumptions

The LARS analysis is based upon the system configuration and load levels presented to the ISO by each of the responsible utilities for their respective areas in the grid planning base study cases. The system configurations included in these base cases for certain local areas include generation and/or transmission projects that are planned for completion before the 2007 summer peak load. The detailed LARS assessment provided in Appendix B identifies the projects that are critical to the required capacity list recommended herein. These are summarized in Table 3. If these critical projects are not completed within the time frame specified or if the critical assumptions change, additional capacity may be required in order to maintain the reliability of the ISO Controlled Grid. For these reasons, ISO Management requests the

authority to seek and contract for additional RMR Units if the critical assumptions change or if planned transmission projects are not completed in the time frame that will allow the ISO to maintain the reliability of the ISO Controlled Grid consistent with the RMR Criteria and Applicable Reliability Standards.

Table 3 – Critical Transmission Projects/Assumptions		
RMR Area/Pocket	Critical Projects	Required Date
Humboldt	None	N/A
North Coast/North Bay	Fulton-Lakeville 230 kV line Vaca Dixon-Tulucay 230 kV line Rerate	Both May 2007
Greater San Francisco Bay/ Overall	No Major transformers forced out-of- service for an extended period	2007
Sierra/Colgate Pocket South of Palermo Pocket	New Pease-Marysville 60 kV line Palermo 230/115 kV transformer	Both May 2007
Stockton	None	N/A
Fresno	None	N/A
LA Basin/Western Pocket	No significant market units are mothballed in 2007	2007
San Diego	None	N/A

LARS AREA ASSESSMENT AND REQUIRED CAPACITY SUMMARY

PREFACE

The technical analysis the ISO performed for the 2007 calendar year to determine the local reliability requirements evaluated eight local areas within the ISO Controlled Grid where operational history has shown that local reliability issues exist. Six of these areas (Humboldt, North Coast/North Bay, Greater Bay, Sierra, Stockton and Fresno) are in PG&E's service area while SCE and SDG&E each have one such area (L.A. Basin and San Diego, respectively). A number of these areas are further subdivided as needed into sub-areas. A map of the areas is shown in Figure 1 below.

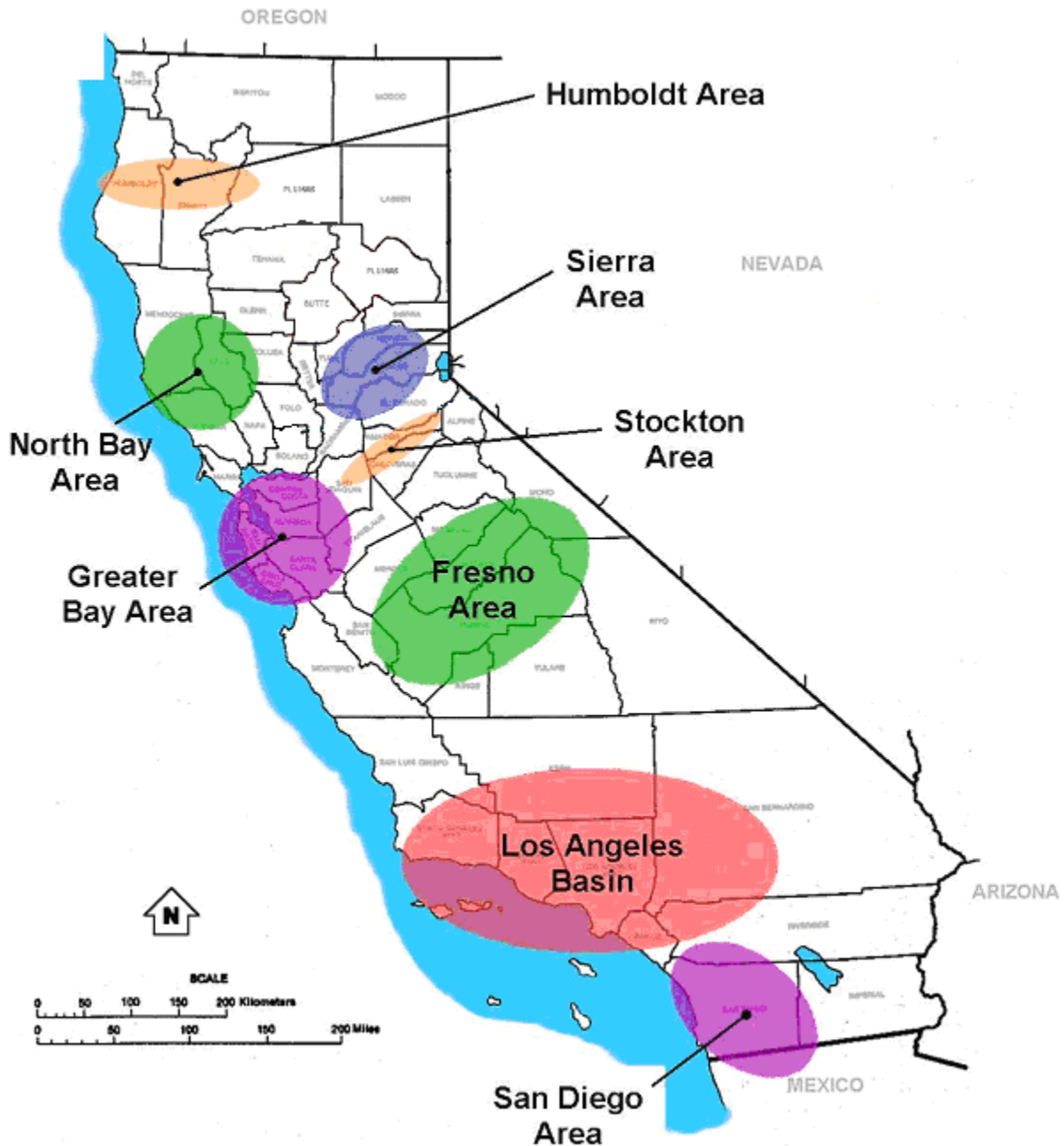


Figure 1 – LARS Area Map

The results of the LARS 2007 process described in Appendix B are summarized as follows:

HUMBOLDT AREA

Humboldt Area Description

The Humboldt area covers most of Humboldt County. The grid is comprised of 60 kV and 115 kV transmission lines. Internal generation in the Humboldt area consists of two 52 MW thermal generating units, two 15 MW mobile gas turbines (GTs), one 25 MW biomass self-generator and 48 MW of QF generation. Additionally, there is one off-line generator in the area with a 10 MW capacity.

Humboldt Area Technical Summary

The area RMR requirement of 125 MW is met with the existing RMR Contract for four units at the Humboldt Power Plant (133 MW).

Humboldt Area Recommendation

Therefore, Management recommends potential re-designation of the four units at Humboldt to meet the RMR requirement of the main area.

NORTH COAST/NORTH BAY AREA

North Coast/North Bay Area Description

The North Coast/North Bay area covers Mendocino, Lake, Sonoma, Napa counties as well as a small portion of Solano County. The grid is comprised of 60 kV, 115 kV and 230 kV transmission lines. Internal generation consists of 851 MW of geothermal generating units, three hydro units totaling 10 MW and 158 MW of QF generation.

North Coast/North Bay Area Technical Summary

The total RMR requirement for North Coast/North Bay Area (Lakeville) is about 342 MW. This area contains one sub-area Eagle Rock with a 127 MW requirement.

Eagle Rock

The RMR requirement in the Eagle Rock sub-area is about 127 MW. The geothermal resources in the area currently under RMR Contracts have a combined available capacity of 127 MW. The ISO selected the most economic ones to address the identified RMR requirement in 2007.

North Coast/North Bay Area Recommendation

For the North Coast/North Bay Area, Management recommends potential re-designation of all existing RMR units, except Geysers Units 12 which may be terminated unless required to meet the Greater Bay Area requirement and requests authority to seek and contract with the alternative and additional resource(s) needed to meet the RMR requirement in this sub-area if the RMR Contracts for the potential designated resources terminate or become invalid for any reason or if any of the Critical Path Projects identified are not completed in time.

GREATER BAY AREA

Greater Bay Area Description

The Greater Bay area essentially covers the regions surrounding the San Francisco Bay including Alameda, Contra Costa, Santa Clara, San Mateo, and San Francisco counties. The grid is comprised of 500 kV, 230 kV, and lower voltage transmission lines. Internal generation available to meet RMR requirements consists of various thermal units totaling 5,479 MW, about 988 MW of QF generation and about 78 MW of wind generation.

Greater Bay Area Technical Summary

The RMR requirement in the Greater Bay Area is approximately 3,655 MW for 2007. Accounting for all proposals received, this need is most economically met with all the existing Greater Bay Area RMR Units less Gilroy Peaker Unit 3 and Los Esteros Units 1-4 and the addition of the Geysers units #14, #20 and #12 for which Geysers Power Company submitted a proposal in response to the LARS RFP. Many of these units also meet the needs of the five pockets in the Greater Bay Area as described below.

San Francisco Pocket

The RMR requirement in the San Francisco Pocket is about 366 MW for 2007 and the capacity of the existing RMR Units in this pocket is 366 MW. As a result, all the existing RMR generation Units in the San Francisco area are necessary to meet the RMR requirements in this pocket and the Greater Bay Area.

Oakland Pocket

The RMR requirement in the Oakland Pocket is about 100 MW for 2007. The available capacity of the RMR Units is 216 MW. While only a portion of the Units are required to meet the needs in this pocket, all these Units economically contribute to meeting the need of the Greater Bay Area. Therefore, all the existing RMR Units in this pocket are necessary to meet both the Oakland Pocket and Greater Bay Area RMR requirements in 2007.

Llagas Pocket

The Llagas Pocket has an RMR requirement on its 115 kV system of about 90 MW for 2007. The available capacity of the RMR Units is 135 MW. Therefore, the Gilroy Peaker unit 3 should be terminated from an RMR contract since it is not necessary to satisfy the Greater Bay area RMR requirements.

San Jose Pocket

PG&E has an existing SPS that will radialize this area if an overload is detected under emergency conditions, practically eliminating any overload, as such no RMR requirements are imposed for year 2007.

Pittsburg Pocket

The Pittsburg Pocket has an RMR requirement of about 1523 MW for 2007. The 2728 MW of available capacity in this pocket exceeds the need in this pocket. The existing capacity of the 2006 Contract Year RMR Units in this pocket meet the pocket requirements and also contribute to meeting the RMR requirements in the Greater Bay Area. Therefore, the RMR Agreements for the existing RMR Units in this pocket are necessary to meet the Pittsburg Pocket and Greater Bay Area requirements for 2007.

Greater Bay Area Recommendation

Management recommends potential re-designation of all the existing RMR units (including Geysers Unit #12) except for Gilroy Peaker Unit 3 and Los Esteros Units 1-4, potential conditional designation of the Geysers unit #14 and #20 contingent upon reaching a contract for these units that is acceptable to Management, and requests the authority to seek and contract with the alternative resource(s) needed to meet the RMR requirement in this area if it is impractical or infeasible to execute satisfactory contracts with the identified resources or if any of the Critical Path Projects identified are not completed in time.

SIERRA AREA

Sierra Area Description

The Sierra Area covers the southern portion of Sierra County, and most of El Dorado, Yuba, Sutter, Nevada and Placer Counties. The grid consists of 230 kV, 115 kV and 60 kV transmission lines. Internal generation in the Sierra area consists of 44 hydro generators, 2 gas turbine and Qualifying Facility (QF) generation with a total available capacity of 1848 MW.

Sierra Area Technical Summary

The Sierra Area has an aggregate RMR requirement of about 1331 MW. The required RMR Units for the nine sub-areas or pockets of the Sierra Area are described below.

Colgate Pocket

The RMR requirement in the Colgate Pocket is 16 MW for 2007. There is 17 MW of municipal generation in this pocket that is not eligible for an RMR Agreement. No additional unit will be needed in order to satisfy the RMR requirement in this pocket.

Pease Pocket

The RMR requirement in the Pease Pocket is 20 MW for 2007. There are no municipal generation units in this pocket. The Yuba City EC unit is needed in order to satisfy the RMR requirement in this pocket.

Bogue Pocket

The RMR requirement in the Bogue Pocket is 28 MW for 2007. There are no municipal generation units in this pocket. The Feather River EC unit is needed in order to satisfy the RMR requirement in this pocket.

South of Palermo Pocket

The RMR requirement for the South of Palermo Pocket is 794 MW for 2007. There is 82 MW of municipal generation in this pocket that is not eligible for an RMR Agreement. All units effective are required to meet a portion of the need in this pocket (this area is deficient). All units in the South Yuba and Feather River Watersheds are needed. PG&E has indicated that these units are subject to operating limitations that may make an RMR Contract impractical.

Placer Pocket

The RMR requirement for the Placer Pocket is 47 MW for 2007. There are no municipal generation units in this pocket. Following units in the South Yuba Watershed are needed: Halsey, Newcastle, and Wise #1 & #2. PG&E has indicated that these units are subject to operating limitations that may make an RMR Contract impractical. With a 47 MW RMR requirement in the Placer Pocket, the 28 MW of generation available from the South Yuba Watershed is not sufficient to meet the needs and leaves the area with a minimum deficiency of 19 MW; the deficiency will be as great as 47 MW assuming that an RMR Contract for the South Yuba Watershed facility is not feasible.

Drum-Rio Oso Pocket

The RMR requirement for the Drum-Rio Oso Pocket is 122 MW for 2007. There is 191 MW of municipal generation in this pocket that is not eligible for an RMR Agreement. No additional unit will be needed in order to satisfy the RMR requirement in this pocket.

Placerville Pocket

There is no RMR requirement for the Placerville Pocket in 2007.

South of Rio Oso Pocket

The RMR requirement for the South of Rio Oso Pocket is 283 MW for 2007. There is 268 MW of municipal generation in this pocket that is not eligible for an RMR Agreement. No additional unit will be needed in order to satisfy the RMR requirement in this pocket.

South of Table Mountain Pocket (Overall Sierra Area)

The RMR requirement for the South of Table Mountain Pocket is 1337 MW for 2007. There is 805 MW of municipal generation in this pocket that is not eligible for an RMR Agreement. No additional units will be needed to satisfy the RMR requirement in this pocket, because they are required for all above-mentioned pockets.

Sierra Area Recommendation

For the Sierra Area and the eight pockets with RMR requirements, Management recommends potential continued designation of the Feather River Energy Center and Yuba City Energy Center RMR units, potential conditional designation of all units in the South Yuba Watershed and the Feather River Watershed contingent upon reaching contracts for these facilities that are acceptable to Management, and requests the authority to seek and contract with the alternative and/or additional resource(s) needed to effectively meet the RMR requirement in these sub-areas, and to substitute for the South Yuba Watershed and Feather River Watershed if satisfactory contracts with such units are infeasible or if any of the Critical Path Projects identified are not completed in time..

STOCKTON AREA

Stockton Area Description

The Stockton area covers all or portions of Amador, Calaveras, Tuolumne, San Joaquin, and Stanislaus counties. The grid is comprised of 230 kV, 115 kV and 60 kV transmission lines. Internal generation consists of several hydro units, a few MUNI CT's, two market CT's, a few small self-generation and QF generation.

Stockton Area Technical Summary

The Stockton Area does not have a main area RMR requirement; however this area contains three sub-areas including the Tesla-Bellota Pocket, the Valley Springs-Martell Pocket and the Lockeford-Lodi Pocket. The requirements for these pockets are discussed below.

Tesla-Bellota Pocket

The RMR requirement in the Tesla-Bellota Pocket is about 302 MW in 2007. There is 124 MW of municipal generation in this pocket that is not eligible for an RMR Agreement. All units effective are required to meet the need in this pocket: two GWF Tracy units and the Stanislaus Watershed. PG&E has indicated that the Stanislaus Watershed units have operating limitations that may make an RMR Contract impractical and/or infeasible.

Valley Springs-Martell Pocket

This pocket has been eliminated due to a decrease in generation and reconfiguration of the system.

Lockeford-Lodi Pocket

This pocket has been eliminated by installation of transformers at the Lockeford Substation.

Stockton Area Recommendation

To meet the RMR requirements of the Tesla-Bellota Pocket, Management recommends potential conditional designation of the Stanislaus Watershed and two GWF Tracy units contingent upon reaching a contract for these facilities that is acceptable to Management and requests the authority to seek and

contract with an alternative resource, in any event that makes an RMR Contract impractical, or if a satisfactory contract with the units is infeasible.

FRESNO AREA

Fresno Area Description

The Fresno area covers all or portions of Fresno, Madera, Mariposa and Merced counties. The grid is comprised of 230 and 115 kV lines. Internal generation consists of several hydro units and CT's as well as QF generation. There are four RMR sub-areas within the Fresno area that contribute to defining RMR requirements.

Fresno Area Technical Summary

The Fresno Area has an aggregate RMR requirement of about 2027 MW and four sub-areas described below including: Wilson, Henrietta, Herndon, and McCall.

Wilson Pocket

The RMR requirement in the Wilson Pocket is about 1090 MW in 2007. There is 75 MW of municipal generation in this pocket that is not eligible for an RMR Agreement. The existing RMR Contracts for the Helms units in this sub-area provide sufficient capacity to satisfy this RMR requirement.

Henrietta Pocket

The Henrietta Pocket has an RMR requirement of about 7 MW in 2007. There are no municipal generation units in this pocket. one of the GWF Henrietta units may be required to satisfy the RMR requirements of the Henrietta Pocket in 2007. It is likely that an RMR Contract with either one of the Henrietta units, which are 45 MW each, will be impractical for satisfying a 7 MW RMR requirement.

Herndon Pocket

The Herndon Pocket has an RMR Requirement of about 480 MW. There are no municipal generation units in this pocket. Existing RMR Contracts with PG&E for their Kings River Watershed II (contains the Haas 1&2, Balch 1-3 and Kings River units) and San Joaquin Watershed (contains the Kerckhoff Power House 1 and 2 units) will adequately fulfill this requirement.

McCall Pocket

The RMR requirement in the McCall Pocket is about 971 MW in 2007. There is 108 MW of municipal generation in this pocket that is not eligible for an RMR Agreement. No additional unit will be needed in order to satisfy the RMR requirement in this pocket, because units required in the Fresno Area pockets mentioned above also satisfy the McCall Pocket requirement.

Fresno Area Recommendation

For the Fresno Area and its four pockets, Management recommends the following: potential continued designation of existing RMR Units under the Kings River Watershed II, San Joaquin Watershed, Kings River Watershed I (Helms units 1-3) RMR Agreements; potential conditional designation of one of the GWF Henrietta units contingent upon reaching a contract for these facilities that is acceptable to Management and requests the authority to seek and contract with an alternative resource, in any event that makes an RMR Contract impractical, or if a satisfactory contract with the units is infeasible.

L.A. BASIN AREA

L.A. Basin Area Description

The LA Basin area covers all or portions of Santa Barbara, Kern, Tulare, Ventura, Los Angeles, Orange and San Bernardino counties. The grid is comprised of 500, 230 and 115 kV lines. Internal generation

consists of several gas-fired units, a nuclear plant, some hydro and QF generation. There is one RMR sub-area within the LA Basin area that contributes to defining RMR requirements.

L.A. Basin Area Technical Summary

The L.A. Basin Area RMR requirement is determined by studying and identifying the needs (including operational requirements) in three sub-areas including Eastern, Western, and Ventura. This analysis concluded that the Western sub-area's RMR requirement is 750 MW and there is no RMR requirement for the Eastern and Ventura sub-areas.

Eastern Pocket

The Ventura Pocket does not have an identified RMR requirement in 2007.

Western Pocket

The RMR requirement for the Western Pocket is defined as 750 MW. At least two Western LA Basin units are required to be on line at all times per ISO Operating Procedure G-219, when SCE load is above 15,500 MW. Three units are required for RMR to cover for loss of one unit. The existing RMR Contracts for Huntington Beach Units 1 and 2, and Alamitos Units 3 will satisfy both the RMR requirement and the operational needs in this sub-area.

Ventura Pocket

The Ventura Pocket does not have an identified RMR requirement in 2007.

L.A. Basin Area Recommendation

For the Western pocket of the L.A. Basin Area, Management recommends: potential continued designation of Huntington Beach Units 1 and 2, and Alamitos Unit 3; and authority to seek and contract with additional resource(s) necessary to meet operational needs if the Critical Path Assumptions identified are not satisfied to address the RMR and operational requirements.

SAN DIEGO AREA

San Diego Area Description

The San Diego County area covers San Diego County and the southwest portion of Orange County. The grid is comprised of 230 kV and lower voltage transmission lines. Internal generation consists of several thermal units and combustion turbines as well as QF generation totaling about 2932 MW of capacity.

San Diego Area Technical Summary

The total RMR requirement, to eliminate the current worst contingency in this pocket, is about 2460 MW for year 2007. The ISO will continue to require that the Encina and South Bay generating facilities retain the capability to burn fuel oil, due to constraints in the San Diego Area natural gas system.

San Diego Area Recommendation

Management recommends potential re-designation of the existing RMR Units, except South Bay unit 3, potential conditional designation of the MMC Chula Vista and MMC Escondido facilities contingent upon reaching a contract for these facilities that is acceptable to Management including economic considerations, and authority to seek and contract with alternative resource(s) necessary to meet the RMR requirement if a satisfactory contract with the required units is infeasible or existing units under RMR Contract terminate.

Table A1 - PG&E 2007 RMR Requirement Summary								
PG&E Area Existing RMR Contract Required Capacity								
Owner	RMR Area	Pocket	Unit	Resource ID	Capacity	Facilities	Units	Pmax (MW)
<i>PG&E Thermal - Existing RMR Required Capacity</i>								
CalPeak Power - Vaca Dixon, LLC	GBA		Vaca-Dixon	VACADX_1_UNITA1	42	1	1	55
Los Medanos EC, LLC	GBA	Pittsburg	Los Medanos Energy Center	LMEC_1_PL1X3	556	1	1	561.29
Delta EC, LLC	GBA	Pittsburg	Delta Energy Center	DELTA_2_PL1X4	845	1	1	861.29
Gilroy EC, LLC	GBA	Llagas	Gilroy Peaker - 1	GILRPP_1_PL1X2	45	1	1	45
Gilroy EC, LLC	GBA	Llagas	Gilroy Peaker - 2	GILRPP_1_PL1X2	45		1	45
Gilroy EC, LLC	GBA		Riverview	RVRVEW_1_UNITA1	45		1	48.7
Gilroy EC, LLC	GBA		Lambie	LMBEPK_2_UNITA1	45		1	48
Gilroy EC, LLC	Sierra	Pease	Yuba City	YUBACT_6_UNITA1	45		1	46
Gilroy EC, LLC	Sierra	Bogue	Feather River	BOGUE_1_UNITA1	45		1	46.3
Gilroy EC, LLC	GBA		Wolfskill, Unit 1	WOLFSK_1_UNITA1	45		1	46.9
Goose Haven EC, LLC	GBA		Goosehaven	LMBEPK_2_UNITA3	45	1	1	48
Creed EC, LLC	GBA		Creed	LMBEPK_2_UNITA2	45	1	1	48
LSP Oakland	GBA		Oakland 1	OAK C_7_UNIT 1	55	1	1	55
LSP Oakland	GBA		Oakland 2	OAK C_7_UNIT 2	55		1	51
LSP Oakland	GBA	Oakland	Oakland 3	OAK C_7_UNIT 3	55		1	49
Mirant Delta, LLC	GBA		Contra Costa 4	COCOPP_7_UNIT 4	0	1	1	0
Mirant Delta, LLC	GBA		Contra Costa 5	COCOPP_7_UNIT 5	0		1	0
Mirant Delta, LLC	GBA		Contra Costa 7	COCOPP_7_UNIT 7	337		1	337
Mirant Delta, LLC	GBA		Pittsburg 5	PITTSP_7_UNIT 5	312	1	1	312
Mirant Delta, LLC	GBA	Pittsburg	Pittsburg 6	PITTSP_7_UNIT 6	317		1	317
Mirant Potrero, LLC	GBA	San Francisco	Potrero 3	POTRPP_7_UNIT 3	206	1	1	206
Mirant Potrero, LLC	GBA	San Francisco	Potrero 4	POTRPP_7_UNIT 4	52		1	52
Mirant Potrero, LLC	GBA	San Francisco	Potrero 5	POTRPP_7_UNIT 5	52		1	52
Mirant Potrero, LLC	GBA	San Francisco	Potrero 6	POTRPP_7_UNIT 6	52		1	52
NCPA	GBA	Oakland	NCPA Alameda 1 CT	ALMEGT_1_UNIT 1	22.5	1	1	23.8
NCPA	GBA	Oakland	NCPA Alameda 2 CT	ALMEGT_1_UNIT 2	22.5		1	25.4
PG&E	Humboldt		Humboldt Bay 1	HUMBPP_7_UNIT 1	53	1	1	52
PG&E	Humboldt		Humboldt Bay 2	HUMBPP_7_UNIT 2	53		1	53
PG&E	Humboldt		Humboldt Bay CT 2	HUMBPP_6_MOBLES	15		1	15
PG&E	Humboldt		Humboldt Bay CT 3	HUMBPP_6_MOBLES	15		1	15
<i>PG&E Thermal Existing Subtotal</i>					3522	12	30	3566.68
<i>PG&E Hydro - Existing RMR Required Capacity</i>								
PG&E	Fresno	Wilson/McCall	Kings River Watershed I		1212	1	1	1218
			Helms 1	HELM PG_7_UNIT 1	404		1	407
			Helms 2	HELM PG_7_UNIT 2	404		1	407
			Helms 3	HELM PG_7_UNIT 3	404		1	404
PG&E	Fresno	Herndon/Wilson	San Joaquin Watershed		217.4	1	1	223.2
			Kerckhoff PH 1 - 1	KERKH1_7_UNIT 1	12.8		1	13

Appendix A
List of generating units

			Kerckhoff PH1 - 2	KERKH1_7_UNIT 2	8.5		1	12.8
			Kerckhoff PH1 - 3	KERKH1_7_UNIT 3	12.8		1	12.8
			Kerckhoff PH2 - 1	KERKH2_7_UNIT 1	155		1	153.9
			San Joaquin 1A	WISHON_6_UNITS	0.9		1	0.9
			San Joaquin 2	CRNEVL_6_SJQN 2	3.2		1	3.2
			San Joaquin 3	CRNEVL_6_SJQN 3	4.2		1	4.2
			Wishon 1	WISHON_6_UNITS	5		1	5.6
			Wishon 2	WISHON_6_UNITS	5		1	5.6
			Wishon 3	WISHON_6_UNITS	5		1	5.6
			Wishon 4	WISHON_6_UNITS	5		1	5.6
PG&E	Fresno	Herndon/Wilson	Kings River Watershed II		334	1	1	348.1
			Haas 1	HAASPH_7_PL1X2	72		1	77
			Haas 2	HAASPH_7_PL1X2	72		1	78
			Balch PH 1 - 1	BALCHS_7_UNIT 1	34		1	34
			Balch PH 2 - 2	BALCHS_7_UNIT 2	52		1	52.5
			Balch PH 2 - 3	BALCHS_7_UNIT 3	52		1	54.6
			Kings River	KINGRV_7_UNIT 1	52		1	52
PG&E Hydro Existing Subtotal					1763.4	3	23	1789.3
PG&E Geothermal - Existing RMR Required Capacity								
Geysers Power Company	North Coast	Eagle Rock	Geysers 6	GYS5X6_7_UNITS	40	1	1	40
Geysers Power Company	North Coast	Eagle Rock	Geysers 7	GYS7X8_7_UNITS	38		1	38
Geysers Power Company	North Coast	Eagle Rock	Geysers 11	GEYS11_7_UNIT11	60		1	72
Geysers Power Company	GBA		Geysers 12	GEYS12_7_UNIT12	40		1	57
Geysers Power Company	North Coast	Lakeville	Geysers 17	GEYS17_7_UNIT17	51		1	60
Geysers Power Company	North Coast	Lakeville	Geysers 18	GEYS18_7_UNIT18	60		1	72
NCPA	North Coast	Lakeville	NCPA Geysers 1, Unit 1	NCPA_7_GP1UN1	35	1	1	49
NCPA	North Coast	Lakeville	NCPA Geysers 1, Unit 2	NCPA_7_GP1UN2	35		1	49
NCPA	North Coast	Lakeville	NCPA Geysers 2, Unit 3	NCPA_7_GP2UN3	35		1	42.42
NCPA	North Coast	Lakeville	NCPA Geysers 2, Unit 4	NCPA_7_GP2UN4	35		1	46.03
PG&E Geothermal Existing Subtotal					429	2	10	525.45
PG&E Existing Total					5714.4	17	63	5881.43
PG&E Area Heldover Required Capacity								
Owner	RMR Area	Pocket	Unit	Resource ID	Capacity	Facilities	Units	Pmax (MW)
PG&E Thermal - Heldover Required Capacity								
PG&E	Fresno	Henrietta	GWF Henrietta 1	HENRTA_6_UNITA1	45	1	1	48.42
GWF	Stockton	Tesla-Bellota	Tracy, Unit 1	SCHLTE_1_UNITA1	79	1	1	94
PG&E Thermal Heldover Subtotal					124	2	2	142.42
PG&E Hydro - Heldover Required Capacity								

Appendix A
List of generating units

PG&E	Sierra	Placer/ S.of Palermo/ S. of Rio Oso/ S. of Table Mountain/ Drum-Rio Oso	South Yuba Watershed		172.2	1		177
			Spaulding 1, Unit 1	SPAULD_6_UNIT 1	7		1	7.8
			Drum 1, Unit 1	DRUM_7_PL1X2	13.2		1	13.3
			Drum 1, Unit 2	DRUM_7_PL1X2	13.2		1	13.3
			Drum 1, Unit 3	DRUM_7_PL3X4	13.2		1	13.3
			Drum 1, Unit 4	DRUM_7_PL3X4	14.5		1	14.1
			Drum 2, Unit 1	DRUM_7_UNIT 5	49.5		1	50
			Dutch Flat 1	DUTCH1_7_UNIT 1	22		1	22
			Halsey, Unit 1	HALSEY_6_UNIT	11		1	13.5
			Wise Unit 1	WISE_1_UNIT 1	14		1	14.5
			Wise 2	WISE_1_UNIT 2	3.1		1	3.2
			Newcastle	NWCSTL_7_UNIT 1	11.5		1	12
PG&E	Sierra	S. of Table Mountain/ S. of Palermo	Feather River Watershed		477	1		488.9
			Belden, Unit 1	BELDEN_7_UNIT 1	117		1	119
			Bucks Creek, Unit 1	BUCKCK_7_PL1X2	33		1	33
			Bucks Creek, Unit 2	BUCKCK_7_PL1X2	25		1	25
			Rock Creek, Unit 1	RCKCRK_7_UNIT 1	56		1	57
			Rock Creek, Unit 2	RCKCRK_7_UNIT 2	56		1	56.9
			Cresta, Unit 1	CRESTA_7_PL1X2	35		1	35
			Cresta, Unit 2	CRESTA_7_PL1X2	35		1	35
			Poe, Unit 1	POEPH_7_UNIT 1	60		1	68
			Poe, Unit 2	POEPH_7_UNIT 2	60		1	60
PG&E	Stockton	Tesla-Bellota	Stanislaus Watershed		98	1		98
			Spring Gap	SPRGAP_1_UNIT 1	7		1	7
			Stanislaus	STANIS_7_UNIT 1	91		1	91
<i>PG&E Hydro Heldover Subtotal</i>					<i>747.2</i>	<i>3</i>	<i>22</i>	<i>763.9</i>
<i>PG&E Heldover Total</i>					<i>871.2</i>	<i>5</i>	<i>24</i>	<i>906.32</i>
<i>PG&E Area New Required Capacity</i>								
Owner	RMR Area	Pocket	Unit	Resource ID	Capacity	Facilities	Units	Pmax (MW)
<i>PG&E Thermal - New Required Capacity</i>								
GWF	Stockton	Tesla-Bellota	Tracy, Unit 2	SCHLTE_1_UNITA2	80		1	94
<i>PG&E Thermal New Subtotal</i>					<i>80</i>	<i>0</i>	<i>1</i>	<i>0</i>
<i>PG&E Geothermal - New Required Capacity</i>								
Geysers Power Company	GBA		Geysers 14	GEYS14_7_UNIT14	63		1	70
Geysers Power Company	GBA		Geysers 20	GEYS20_7_UNIT20	45		1	118
<i>PG&E Geothermal New Subtotal</i>					<i>108</i>	<i>0</i>	<i>2</i>	<i>70</i>
<i>PG&E New Total</i>					<i>188</i>	<i>0</i>	<i>3</i>	<i>282</i>
<i>PG&E Area Terminations</i>								
Owner	RMR Area	Pocket	Unit	Resource ID	Capacity	Facilities	Units	Pmax (MW)
<i>PG&E Thermal - Terminations</i>								
Gilroy EC, LLC	GBA	San Jose	Gilroy Peaker - 3	GILRPP_1_PL3X4	45		1	46.2
Los Esteros	GBA	San Jose	Los Esteros - 1	LECEF_1_UNITS	45	1	1	45

Critical EF, LLC								
Los Esteros Critical EF, LLC	GBA	San Jose	Los Esteros - 2	LECEF_1_UNITS	45		1	45
Los Esteros Critical EF, LLC	GBA	San Jose	Los Esteros - 3	LECEF_1_UNITS	45		1	45
Los Esteros Critical EF, LLC	GBA	San Jose	Los Esteros - 4	LECEF_1_UNITS	45		1	45
<i>PG&E Thermal Terminations Subtotal</i>					225		1	5
PG&E Terminations Total					225		1	5

Table A2 - SCE 2007 RMR Requirement Summary

SCE Area Existing RMR Contract Required Capacity								
Owner	RMR Area	Pocket	Unit	Resource ID	Capacity	Facilities	Units	Pmax (MW)
<i>SCE Thermal - Existing RMR Required Capacity</i>								
Williams Power Company	L.A. Basin	Western	Alamitos 3	ALAMIT_7_UNIT 3	320	1	1	332.18
Williams Power Company	L.A. Basin	Western	Huntington Beach 1	HNTGBH_7_UNIT 1	215	1	1	225.8
Williams Power Company	L.A. Basin	Western	Huntington Beach 2	HNTGBH_7_UNIT 2	215		1	225.8
<i>SCE Thermal Existing Subtotal</i>					750		2	3
SCE Existing Total					750		2	3
SCE Area Terminations								
Owner	RMR Area	Pocket	Unit	Resource ID	Capacity	Facilities	Units	Pmax (MW)
<i>SCE Thermal - Terminations</i>								
Reliant Energy Etiwanda, LLC	L.A. Basin	Eastern	Etiwanda Unit 3	ETIWND_7_UNIT 3	320	1	1	320
Reliant Energy Etiwanda, LLC	L.A. Basin	Eastern	Etiwanda Unit 4	ETIWND_7_UNIT 4	320		1	320
<i>SCE Thermal Terminations Subtotal</i>					640		1	2
SCE Terminations Total					640		1	2

Table A3 - SDG&E 2007 RMR Requirement Summary

SDG&E Area Existing RMR Contract Required Capacity								
Owner	RMR Area	Unit	Resource ID	Capacity	Facilities	Units	Pmax (MW)	
<i>SDG&E Thermal - Existing RMR Required Capacity</i>								
Calpeak Power Border, LLC	San Diego	Border	BORDER_6_UNITA1	42	1	1	49	
Calpeak Power El Cajon, LLC	San Diego	El Cajon	ELCAJN_6_UNITA1	42	1	1	49	
Calpeak Power Enterprise, LLC	San Diego	Enterprise	ESCND0_6_UNITB1	42	1	1	49	
LSP South Bay	San Diego	South Bay 1	SOBAY_7_SY1	145	1	1	146	
LSP South Bay	San Diego	South Bay 2	SOBAY_7_SY2	149		1	149.6	
LSP South Bay	San Diego	South Bay 4	SOBAY_7_SY4	221		1	222	
LSP South Bay	San Diego	South Bay CT	SOBAY_7_GT1	13		1	15	
Cabrillo Power I	San Diego	El Cajon CT	ELCAJN_7_GT1	13		1	18	
Cabrillo Power I	San Diego	Encina 1	ENCINA_7_EA1	106	1	1	110	

Cabrillo Power I	San Diego	Encina 2	ENCINA_7_EA2	103		1	104	
Cabrillo Power I	San Diego	Encina 3	ENCINA_7_EA3	109		1	110	
Cabrillo Power I	San Diego	Encina 4	ENCINA_7_EA4	299		1	299	
Cabrillo Power I	San Diego	Encina 5	ENCINA_7_EA5	329		1	330	
Cabrillo Power I	San Diego	Encina CT	ENCINA_7_GT1	14		1	17	
Cabrillo Power II	San Diego	Kearney 1	KEARNY_7_KY1	15	1	1	18	
Cabrillo Power II	San Diego	Kearney 2A	KEARNY_7_KY2	14		1	17	
Cabrillo Power II	San Diego	Kearney 2B	KEARNY_7_KY2	14		1	17	
Cabrillo Power II	San Diego	Kearney 2C	KEARNY_7_KY2	14		1	17	
Cabrillo Power II	San Diego	Kearney 2D	KEARNY_7_KY2	13		1	17	
Cabrillo Power II	San Diego	Kearney 3A	KEARNY_7_KY3	15		1	17	
Cabrillo Power II	San Diego	Kearney 3B	KEARNY_7_KY3	14		1	17	
Cabrillo Power II	San Diego	Kearney 3C	KEARNY_7_KY3	14		1	17	
Cabrillo Power II	San Diego	Kearney 3D	KEARNY_7_KY3	14		1	17	
Cabrillo Power II	San Diego	Miramar 1A	MRGT_7_UNITS	17		1	17	
Cabrillo Power II	San Diego	Miramar 1B	MRGT_7_UNITS	16		1	17	
SDG&E	San Diego	Miramar Energy Facility	MRGT_6_MMAREF	46.6	1	1	49	
SDG&E	San Diego	Palomar Energy Center	PALOMR_2_PL1X3	541	1	1	541	
<i>SDG&E Thermal Existing Subtotal</i>				2374.6	8	27	2445.6	
SDG&E Existing Total				2374.6	8	27	2445.6	
SDG&E Area New Capacity Required								
Owner	RMR Area	Unit	Resource ID	Capacity	Facilities	Units	Pmax (MW)	
<i>SDG&E Thermal - New Required Capacity</i>								
MMC Energy North America	San Diego	Escondido CT	ESCND0_6_PL1X2	35.5	1	1	42	
MMC Energy North America	San Diego	Chula Vista CT	OTAY_6_PL1X2	35.5	1	1	42	
<i>SDG&E Thermal New Subtotal</i>				71	2	2	84	
SDG&E New Total				71	2	2	84	
SDG&E AREA RECOMMENDED TERMINATIONS								
Owner	RMR Area	Pocket	Unit	Resource ID	Capacity	Facilities	Units	Pmax (MW)
<i>SDG&E Thermal - Terminations</i>								
LSP South Bay	San Diego		South Bay 3	SOBAY_7_SY3	174		1	175
<i>SDG&E Thermal Terminations Subtotal</i>				174	0	1	175	
SDG&E Terminations Total				174	0	1	175	

Table A4 - ISO Controlled Grid 2007 RMR Requirement Summary				
Service Area	Capacity (MW)			
	PG&E	SCE	SDG&E	ISO
Existing 2006 RMR Unit MWs	5,714	750	2,375	8,839
Heldover(not contracted in 2006)	871	-	-	871
Existing and Heldover	6,586	750	2,375	9,710
New	188	-	71	259
Total Required	6,774	750	2,446	9,969
Terminations	225	640	174	1,039

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Introduction

The Regional Transmission Department at the ISO has evaluated the RMR technical power flow studies together with the “Load Management Projects Proposed”, “Transmission Projects Proposed”, “New Area Generation”, and “New Generating Units Proposed” defined in the area assessment below to determine the required RMR capacity for 2007. Each assessment includes a “Technical Review” that includes the basis for the required capacity, a “Recommendation” that details the specific units required and “Critical Path Projects” identifying projects in progress that must be completed before the peak period in 2007.

Humboldt Area

Load Management Projects Proposed: None.

Transmission Projects Proposed: None.

New Area Generation: None.

New Generating Units Proposed: None.

Technical Review:

The amount of required reliability must run generation for the Humboldt Area under conditions modeled in the 2007 base cases is determined by the worst overlapping outage. This contingency was loss of one Humboldt Bay PP unit followed by loss of the Cottonwood-Bridgeville 115 kV line. For these overlapping outages, the system limitation that determines the amount of required RMR generation is the reactive margin within Humboldt area. The total RMR requirement, to eliminate the current worst contingency in this area, is about 125 MW for year 2007.

Recommendation:

Load Management Projects Accepted: None.

Transmission Projects Accepted: None.

LARS RMR Required Capacity: Humboldt Bay as shown in the table.

Name	Available Capacity (MW)	Existing RMR Unit?
Humboldt PP #1	51	Y
Humboldt PP #2	52	Y
Humboldt GT #2	15	Y
Humboldt GT #3	15	Y
Total	133	

Existing RMR Contracts Terminated: None.

Critical Path Projects: None.

North Coast/North Bay Area

Eagle Rock sub-area of the North Coast/North Bay Area:

Load Management Projects Proposed: None.

Transmission Projects Proposed: None.

New Area Generation: None.

New Generating Units Projects Proposed: Geysers #5 and #8.

Name	Nameplate Capacity (MW)	Dependable Capacity (MW)	Existing RMR Unit?
Geysers #5	53	36	N
Geysers #8	53	31	N
Total	106	67	

Technical Review:

The amount of required reliability must run generation for the Eagle Rock sub-area under conditions modeled in the 2007 base case is determined by the over-lapping outage of Geysers 11 and Eagle Rock-Geysers78 115 kV line. For this particular outage, the system limitation that determines the amount of required RMR generation is the low voltage at Middletown substation. The total RMR requirement, to eliminate the current worst contingency in this pocket, is about 127 MW for year 2007. The total dependable capacity for all RMR candidates during peak loading conditions is 205 MW.

Recommendation:

Load Management Projects Accepted: None.

Transmission Projects Accepted: None.

LARS RMR Required Capacity: Geysers Main as shown in the table.

Name	Nameplate Capacity (MW)²	Available Capacity (MW)	Existing RMR Unit?
Geysers #6	53	36	Y
Geysers #7	53	31	Y
Geysers #11	106	60	Y
Total	212	127	

Existing RMR Contracts Terminated: None.

Overall (Lakeville) North Coast/North Bay Area:

Load Management Projects Proposed: None.

Transmission Projects Proposed: None.

² The nameplate capacity listed in this table is for comparison purposes only. Due to steam field limitations, the actual RMR Contract or LARS capacity for each unit is used to determine the required unit selections for each area.

New Area Generation: None.

New Generating Units Projects Proposed: Geysers #5, #8, #14, #20.

Name	Nameplate Capacity (MW)	Available Capacity (MW)	Existing RMR Unit?
Geysers #5	53	36	N
Geysers #8	53	31	N
Geysers #14	133	70	N
Geysers #20	118	40	N
Total	357	177	

Technical Review:

The amount of required reliability must run generation for the overall (Lakeville) area under conditions modeled in the 2007 base case is determined by the over-lapping outage of Vaca – Tulucay 230 kV line overlapped with Geysers #18 generator out. For this particular outage, the system limitation that determines the amount of required RMR generation is the thermal overload of Vaca-Lakeville 230 kV line. The total RMR requirement, to eliminate the current worst contingency in this pocket, is about 342 MW for year 2007. The total available capacity during peak loading conditions for all RMR candidates is 861 MW.

Recommendation:

Load Management Projects Accepted: None.

Transmission Projects Accepted: None.

LARS RMR Required Capacity: Geysers as shown in the table.

Name	Nameplate Capacity (MW)³	Available Capacity (MW)	Existing RMR Unit?
Geysers #6	53	36	Y (ER)
Geysers #7	53	31	Y (ER)
Geysers #11	106	60	Y (ER)
Geysers #17	118	51	Y
Geysers #18	118	40	Y
NCPA Geysers 1 #1	59	35	Y
NCPA Geysers 1 #2	59	35	Y
NCPA Geysers 2 #3	60	36	Y
NCPA Geysers 2 #4	60	33	Y
Total	686	357	

Existing RMR Contracts Terminated: Geysers Main as shown in the table.

³ The nameplate capacity listed in this table is for comparison purposes only. Due to steam field limitations, the actual RMR Contract or LARS capacity for each unit is used to determine the required unit selections for each area.

Name	Nameplate Capacity (MW)	Available Capacity (MW)	Existing RMR Unit?
Geysers #12	106	41	Y
Total	106	41	

Critical Path Projects:

1. Fulton-Lakeville 230 kV line.
2. Vaca-Tulucay 230 kV line Rerate.

Greater Bay Area

San Francisco Pocket of the Greater Bay Area:

Load Management Projects Proposed: None.

Transmission Projects Proposed: None.

New Area Generation: None.

New Generating Units Proposed: None.

Technical Review:

The amount of required reliability must run generation for the San Francisco Pocket under conditions modeled in the 2007 base case is determined by the loss of one Hunters Point-Martin #1 115 kV cable (over-lapping with an outage of Potrero Unit #3). For this particular outage, the system limitation that determines the amount of required RMR generation is the loading of the parallel Hunters Point-Martin #3 115 kV cable. The total RMR requirement, to eliminate the current worst contingency in this pocket, is about 366 MW for year 2007. The total nameplate of RMR candidates is 366 MW.

Recommendation:

Load Management Projects Accepted: None.

Transmission Projects Accepted: None.

LARS RMR Required Capacity: As shown in the table.

Name	Nameplate Capacity (MW)	Existing RMR Unit	Required Units
Potrero 3	210	Y	Y
Potrero 4	52	Y	Y
Potrero 5	52	Y	Y
Potrero 6	52	Y	Y
Total	366		366

Existing RMR Contracts Terminated: None.

Critical Path Projects: None.

Oakland Pocket of the Greater Bay Area:

Load Management Projects Proposed: None.

Transmission Projects Proposed: None.

New Area Generation: None.

New Generating Units Proposed: None.

Technical Review:

The amount of required reliability must run generation for the Oakland Pocket under conditions modeled in the 2007 base case is determined by the loss of C-X 115 kV cable overlapped with one of Oakland CT's out. For this particular outage, the system limitation that determines the amount of required RMR generation is the loading of the D-L 115 kV cable. The total RMR requirement, to eliminate the current worst contingency in this pocket, is about 100 MW for year 2007. The total nameplate of RMR candidates is 276 MW, however the dependable capacity during peak loading conditions is only 216 MW.

Recommendation:

Load Management Projects Accepted: None.

Transmission Projects Accepted: None.

LARS RMR Required Capacity: As shown in the table.

Name	Nameplate Capacity (MW)	Available Capacity (MW)	Existing RMR Unit	Required Units
Alameda 1	25.6	25.6	Y	Y
Alameda 2	25.6	25.6	Y	Y
Oakland 3	75	55	Y	Y
Oakland 2	75	55	Y	Y (for Greater Bay)
Oakland 1	75	55	Y	Y (for Greater Bay)
Total	276	216	216	106 (OK) + 110 (GB)

Existing RMR Contracts Terminated: None.

Critical Path Projects: None.

Llagas Pocket of the Greater Bay Area:

Load Management Projects Proposed: None.

Transmission Projects Proposed: None.

New Area Generation: None.

New Generating Units Proposed: None.

Technical Review:

The amount of required reliability must run generation for the Llagas 115 kV Pocket under conditions modeled in the 2007 base case is determined by the loss of Metcalf-Morgan Hill 115 kV line overlapped with one of Gilroy Peakers out. For this particular outage, the system limitation that determines the amount of required RMR generation is the loading of the Metcalf-Llagas 115 kV line. The total RMR requirement, to eliminate the current worst contingency in this pocket, is about 90 MW for year 2007. The total available capacity of RMR candidates is 255 MW.

Recommendation:

Load Management Projects Accepted: None.

Transmission Projects Accepted: None.

LARS RMR Required Capacity: As shown in the table.

Name	Nameplate Capacity (MW)	Existing RMR Unit	Required Units
Gilroy Peakers 1	45	Y	Y
Gilroy Peakers 2	45	Y	Y
Gilroy Peakers 3	45	Y	N
Gilroy Energy 1	40	N	N
Gilroy Energy 2	80	N	N
Total	255	135	90 (SJ)

Existing RMR Contracts Terminated: One – Gilroy Peaker unit 3 – see table above.

Critical Path Projects: None.

San Jose Pocket of the Greater Bay Area:

Load Management Projects Proposed: None.

Transmission Projects Proposed: None.

New Area Generation: None.

New Generating Units Proposed: None.

Technical Review:

The amount of required reliability must run generation for the San Jose 115 kV Pocket under conditions modeled in the 2007 base case was determined by the loss of Metcalf D-IBM HR-EI Patio 115 kV line overlapped with Delta Energy Center out. For this particular outage, the system limitation that determined the amount of required RMR generation is the loading of the Metcalf D-Bailey G3-EI Patio 115 kV line. PG&E has an existing SPS that will radialize this area if on overload is detected under emergency conditions, practically eliminating any overload, as such no RMR requirements are imposed for year 2007.

Recommendation:

Load Management Projects Accepted: None.

Transmission Projects Accepted: None.
LARS RMR Required Capacity: None.
Existing RMR contracts terminated: None.
Critical Path Projects: None.

Pittsburg Pocket of the Greater Bay Area:

Load Management Projects Proposed: None.
Transmission Projects Proposed: None.
New Area Generation: None.
New Generating Units Proposed: None.

Technical Review:

The amount of required reliability must run generation for the Pittsburg Pocket under conditions modeled in the 2007 base case is determined by the loss of Pittsburg-Tesla #1 230 kV line overlapped with Delta Energy Center out. For this particular outage, the system limitation that determines the amount of required RMR generation is the loading of the Pittsburg-Tesla #2 230 kV line (and vice versa). The total RMR requirement, to eliminate the current worst contingency in this pocket, is about 1523 MW for year 2007. The total available capacity of all RMR candidates is 2728 MW.

Recommendation:

Load Management Projects Accepted: None.
Transmission Projects Accepted: None.
LARS RMR Required Capacity: As shown in the table.

Name	Available Capacity (MW)	Existing RMR Unit	Required Units
Los Medanos EC	560	Y	Y
Delta Energy Center	813	Y	Y
Pittsburg 5	320	Y	Y (for Greater Bay)
Pittsburg 6	325	Y	Y
Pittsburg 7	710	N	N
Total	2728		1698 (PT) + 320 (GB)

Existing RMR Contracts Terminated: None.
Critical Path Projects: None.

Overall Greater Bay Area:

Load Management Projects Proposed: None.
Transmission Projects Proposed: None.

New Area Generation: None.

New Generation Units Proposed:

Name	Nameplate Capacity (MW)	Available Capacity (MW)
Metcalfe Energy Center	604	597
Geysers #12	106	41
Geysers #5	53	36
Geysers #8	53	31
Geysers #14	133	70
Geysers #20	118	40
Total	1067	815

Technical Review:

The critical contingency delineating RMR requirements is the outage of Vaca-Dixon 500/230 kV Bank. This outage can result in loading the Tesla-Delta Switching Yard 230 kV line to its emergency thermal rating. As a result the RMR requirement for 2007 is about 3,655 MW. The required units in the North Coast/North Bay area, above that satisfy about 357 MW are not included in this requirement.

Recommendation:

Load Management Projects Accepted: None.

Transmission Projects Accepted: None.

Critical Path Projects and Assumptions:

1. No major transformers forced out for extended period of time.

LARS RMR Required Capacity: Facilities as shown in the table.

Name	Maximum Net Dependable Capacity (MW)	Existing RMR Units	Required Units
Alameda 1	22.5	Y	Y
Alameda 2	22.5	Y	Y
Oakland 1	55	Y	Y
Oakland 2	55	Y	Y
Oakland 3	55	Y	Y
Potrero 3	206	Y	Y
Potrero 4	52	Y	Y
Potrero 5	52	Y	Y
Potrero 6	52	Y	Y
Contra Costa 4	N/A	Y	Y
Contra Costa 5	N/A	Y	Y
Contra Costa 6	337	N	N
Contra Costa 7	337	Y	Y
Riverview	45	Y	Y
Goosehaven	45	Y	Y
Creed	45	Y	Y
Lambie	45	Y	Y
Delta Energy Center	845	Y	Y
Los Medanos EC	556	Y	Y
Pittsburg 5	312	Y	Y
Pittsburg 6	317	Y	Y
Pittsburg 7	682	N	N
Metcalf Energy Center	604	N	N
Gilroy Peakers 1	45	Y	Y
Gilroy Peakers 2	45	Y	Y
Gilroy Peakers 3	45	Y	N
Gilroy Energy 1	41	N	N
Gilroy Energy 2	89	N	N
Los Esteros 1	45	Y	N
Los Esteros 2	45	Y	N
Los Esteros 3	45	Y	N
Los Esteros 4	45	Y	N
Duane (PICO) - (2x1)	147	N	N
Units outside the area			
Wolfskill	42	Y	Y
Cal-Peak Vaca-Dixon	45	Y	Y
Geysers #12	40	Y	Y
Geysers #5	40	N	N
Geysers #8	38	N	N
Geysers #14	63	N	Y
Geysers #20	45	N	Y
Total	5647	3561	3444

Existing RMR Contracts Terminated: Gilroy Peaker unit 3 and Los Esteros units1-4 – see table above.

Sierra Area

Colgate Pocket of the Sierra Area:

Load Management Projects Proposed: None.

Transmission Projects Proposed: None.

New Area Generation: None.

New Generating Units Proposed: None.

Technical Review:

The loss of the Colgate-Smartville #1 60 kV line with one of the Narrows #2 (or Camp far West) units out of service is the contingency that determines the RMR requirement for the Colgate Pocket. The area limitation is thermal overloading of the Colgate-Smartville #2 60 kV line. This limiting contingency establishes a RMR requirement of 16 MW (includes 17 MW of Muni generation that is not eligible to receive an RMR contract).

Recommendation:

Load Management Projects Accepted: None.

Transmission Projects Accepted: None.

LARS RMR Required Capacity: None.

Existing RMR Contracts Terminated: None.

Critical Path Projects:

1. New Pease-Marysville 60 kV line – May, 2007

Pease Pocket of the Sierra Area:

Load Management Projects Proposed: None.

Transmission Projects Proposed: None.

New Area Generation: None.

New Generating Units Proposed: None.

Technical Review:

The most critical contingency is the loss of the Table Mountain-Peachton section of the Table Mountain-Pease 60 kV line with one of the Greenleaf #2 (or Yuba City) units out of service. The area limitation is thermal overloading of the Palermo-Pease 115 kV line. This limiting contingency establishes a RMR requirement of 20 MW (includes 0 MW of Muni generation).

Recommendation:

Load Management Projects Accepted: None.

Transmission Projects Accepted: None.

LARS RMR Required Capacity: One.

Name	Available Capacity (MW)	Existing RMR Unit
Yuba City EC	45	Y
Total	45	

Existing RMR Contracts Terminated: None.

Critical Path Projects: None.

Bogue Pocket of the Sierra Area:

Load Management Projects Proposed: None.

Transmission Projects Proposed: None.

New Area Generation: None.

New Generating Units Proposed: None.

Technical Review:

The most critical contingency is the loss of the Pease-Rio Oso 115 kV line with one of the Greenleaf #1 (or Feather River EC) units out of service. The area limitation is thermal overloading of the Palermo-Bogue 115 kV line. This limiting contingency establishes a RMR requirement of 28 MW (includes 0 MW of Muni generation).

Recommendation:

Load Management Projects Accepted: None.

Transmission Projects Accepted: None.

LARS RMR Required Capacity: One.

Name	Available Capacity (MW)	Existing RMR Unit
Feather River EC	45	Y
Total	45	

Existing RMR Contracts Terminated: None.

Critical Path Projects: None.

South of Palermo Pocket of the Sierra Area:

Load Management Projects Proposed: None.

Transmission Projects Proposed: None.

New Area Generation: None.

New Generation Units Proposed: None.

Technical Review:

The single most critical contingency is the loss of the Palermo-Pease 115 kV line with Belden unit out of service. The area limitation is thermal overloading of the Palermo-East Nicolaus 115 kV line. This limiting contingency establishes a RMR requirement of 794 MW (includes 82 MW of Muni generation as well as 67 MW of Deficiency).

Recommendation:

Load Management Projects Accepted: None.

Transmission Projects Accepted: None.

LARS RMR Required Capacity: Following units from the South Yuba and Feather River Watersheds.

Name	Available Capacity (MW)	Existing RMR Unit?
Spaulding Unit 1	4.4	N
Drum 1, Unit 1	13	N
Drum 1, Unit 2	13	N
Drum 1, Unit 3	14	N
Drum 1, Unit 4	14	N
Drum 2, Unit 1	49.5	N
Dutch Flat 1	22	N
Halsey, Unit 1	11	N
Wise, Unit 1	10	N
Wise, Unit 2	0.8	N
Deer Creek	5.7	N
Spaulding Unit 2	7	N
Spaulding Unit 3	5.8	N
Belden Unit 1	115	N
Bucks Unit 1	33	N
Bucks Unit 2	25	N
Rock Creek Unit 1	56	N
Rock Creed Unit 2	56	N
Cresta Unit 1	35	N
Cresta Unit 2	35	N
Poe Unit 1	60	N
Poe Unit 2	60	N
Total	645	

Existing RMR Contracts Terminated: None.

Critical Path Projects:

1. Palermo 230/115 kV transformer – May, 2007.

Placer Pocket of the Sierra Area:

Load Management Projects Proposed: None.

Transmission Projects Proposed: None.

New Area Generation: None.

New Generation Units Proposed: None.

Technical Review:

The loss of Drum-Higgins section of the Drum-Bell 115 kV line with the overlapping outage of the Wise #1 generator is the worst contingency in the Placer Pocket. This outage causes overloads on the Gold Hill-Placer #1 115 kV. The total RMR requirement, to eliminate the current worst contingency in this pocket, is about 47 MW for year 2007 (includes 0 MW of QF and Muni generation as well as 19 MW of Deficiency).

Recommendation:

Load Management Projects Accepted: None.

Transmission Projects Accepted: None.

LARS RMR Required Capacity: Following units from the South Yuba Watershed.

Name	Available Capacity (MW)	Existing RMR Unit?
Newcastle	5.9	N
Halsey, Unit 1	11	N
Wise, Unit 1	10	N
Wise, Unit 2	0.8	N
Total	28	

Existing RMR Contracts Terminated: None.

Critical Path Projects: None.

Drum-Rio Oso Pocket of the Sierra Area:

Load Management Projects Proposed: None.

Transmission Projects Proposed: None.

New Area Generation: None.

New Generation Units Proposed: None.

Technical Review:

The loss of the Rio Oso 230/115 kV transformer bank #2 is the worst contingency in the Drum Pocket. This outage causes overloads on the Rio Oso 230/115 kV transformer bank #1. The total RMR requirement, to eliminate the current worst contingency in this pocket, is about 122 MW for year 2007 (includes 191 MW of Muni generation).

Recommendation:

Load Management Projects Accepted: None.

Transmission Projects Accepted: None.

LARS RMR Required Capacity: None.

Existing RMR Contracts Terminated: None.

Critical Path Projects: None.

Placerville Pocket of the Sierra Area:

Technical Review:

The Placerville area is not an RMR pocket in 2007.

South of Rio Oso Pocket of the Sierra Area:

Load Management Projects Proposed: None.

Transmission Projects Proposed: None.

New Area Generation: None.

New Generation Units Proposed: None.

Technical Review:

The single most critical contingency is the loss of the Rio Oso-Gold Hill 230 line with the Ralston unit out of service. The area limitation is thermal overloading of the Rio Oso-Atlantic 230 kV line. This limiting contingency establishes a RMR requirement of 283 MW (includes 268 MW of Muni generation).

Recommendation:

Load Management Projects Accepted: None.

Transmission Projects Accepted: None.

LARS RMR Required Capacity: Following units from the South Yuba Watershed because they are also needed in the Placer Pocket.

Name	Available Capacity (MW)	Existing RMR Unit?
Newcastle	5.9	N
Halsey, Unit 1	11	N
Wise, Unit 1	10	N
Wise, Unit 2	0.8	N
Total	28	

Existing RMR Contracts Terminated: None.

Critical Path Projects: None.

South of Table Mountain Pocket (Overall Sierra Area):

Load Management Projects Proposed: None.

Transmission Projects Proposed: None.

New Area Generation: None.

New Generation Units Proposed: None.

Technical Review:

The most critical contingency is the loss of the Table Mountain-Rio Oso 230 kV line with one of the Colgate Units out of service. The area limitation is thermal overloading of the Table Mt-Palermo 230 kV line. This limiting contingency establishes an RMR requirement of 1337 MW (includes 805 MW of Muni generation).

Recommendation:

Load Management Projects Accepted: None.

Transmission Projects Accepted: None.

LARS RMR Required Capacity: No additional units are needed.

Existing RMR Contracts Terminated: None.

Critical Path Projects:

1. Palermo 230/115 kV transformer – May, 2007.
2. New Pease-Marysville 60 kV line – May, 2007.

Stockton Area

Tesla-Bellota Pocket of the Stockton Area:

Load Management Projects Proposed: None.

Transmission Projects Proposed: None.

New Area Generation: None.

New Generating Units Proposed: None.

Technical Review:

The most critical contingency that determines the RMR requirement for the Tesla-Bellota 115 kV Pocket is the loss of the Tesla-AEC TP2-Kasson-Manteca 115 kV line and the loss of the Stanislaus unit #1. For this particular outage, the system limitation that determines the amount of required RMR generation is the emergency thermal overload of the Manteca-Ingram 115 kV line. The total RMR requirement to eliminate the current worst contingency in this Sub-area is about 302 MW for year 2007. 124 MW of this area need is served by MUNI generation that is not eligible to get an RMR contract.

Recommendation:

Load Management Projects Accepted: None.

Transmission Projects Accepted: None.

LARS RMR Required Capacity: Stanislaus Watershed and the GWF Tracy units, as shown in the table, because the Stanislaus unit can not be run at the 91 MW output constantly due to water intake limitations.

Name	Available Capacity (MW)	Existing RMR Unit?	Required Unit?
Stanislaus	91	N	Y
Spring Gap	7	N	Y
GWF Tracy #1	79	N	Y
GWF Tracy #2	80	N	Y
Total	257		257

Existing RMR Contracts Terminated: None.

Critical Path Projects: None.

Valley Springs-Martell, Lockeford-Lodi and Stagg Pockets of the Stockton Area:

Technical Review:

The Valley Springs-Martell, the Lockeford-Lodi and the Stagg areas are not RMR pockets in 2007.

Fresno Area

Wilson Pocket of the Fresno Area:

Load Management Projects Proposed: None.

Transmission Projects Proposed: None.

New Area Generation: None.

New Generating Units Proposed: None.

Technical Review:

The contingency that determines the RMR requirement in this area is the loss of the Wilson-Melones 230 kV line overlapped with one Helms generator out. For this particular outage, the system limitation that determines the amount of required RMR generation is the emergency thermal overload of the Wilson-Warnerville 230 kV line. The total RMR requirement, to eliminate the current worst contingency in this pocket, is about 1090 MW for year 2007. However, without Helms 3 units, but with all other effective generators in the Fresno Area on line the Wilson-Warnerville 230 kV line could overload in year 2007.

Recommendation:

Load Management Projects Accepted: None.

Transmission Projects Accepted: None.

LARS RMR Required Capacity: Kings River Watershed I as shown in the table.

Name	Available Capacity (MW)	Existing RMR Unit
Helms 1	404	Y
Helms 2	404	Y
Helms 3	404	Y
Total	1212	

Existing RMR Contracts Terminated: None.

Critical Path Projects: None.

Henrietta Pocket of the Fresno Area:

Load Management Projects Proposed: None.

Transmission Projects Proposed: None.

New Area Generation: None.

New Generating Units Proposed: None.

Technical Review:

The contingency that determines the RMR requirement in this area is the loss of the new Henrietta 230/70 kV transformer bank. For this particular outage, the system limitation that determines the amount of required RMR generation is the emergency thermal overload of the old Henrietta 230/70 kV transformer. The total RMR requirement, to eliminate the current worst contingency in this pocket, is about 7 MW for year 2007.

Recommendation:

Load Management Projects Accepted: None.

Transmission Projects Accepted: None.

LARS RMR Required Capacity: None.

Name	Available Capacity (MW)	Existing RMR unit	Required unit
GWF Henrietta # 1	45	N	Y
GWF Henrietta # 2	45	N	N
Total	90		49

Existing RMR Contracts Terminated: None.

Critical Path Projects: None.

Herndon Pocket of the Fresno Area:

Load Management Projects Proposed: None.

Transmission Projects Proposed: None.

New Area Generation: None.

New Generating Units Proposed: None.

Technical Review:

With the three Helms units on line, but without all other effective generators in the area, the Herndon #1 230/115 kV transformer bank could have emergency loading for the loss of the Herndon #2 230/115 kV transformer bank. The total RMR requirement, to eliminate the current worst contingencies in this pocket, is about 480 MW for year 2007.

Recommendation:

Load Management Projects Accepted: None.

Transmission Projects Accepted: None.

LARS RMR Required Capacity: San Joaquin Watershed and Kings River Watershed II as shown in the table.

Name	Available Capacity (MW)	Existing RMR Unit?
Wishon 1	5	Y
Wishon 2	5	Y
Wishon 3	5	Y
Wishon 4	5	Y
San Joaquin 1	0.4	Y
San Joaquin 2	3.2	Y
San Joaquin 3	4.2	Y
Kerckhoff PH 1 - 1	8.5	Y
Kerckhoff PH1 - 2	13	Y
Kerckhoff PH1 - 3	12.8	Y
Kerckhoff PH2 - 1	155	Y
Haas 1	70	Y
Haas 2	70	Y
Balch PH 1 - 1	34	Y
Balch PH 2 - 2	52.5	Y
Balch PH 2 - 3	52.5	Y
Kings River	52	Y
Total	548	

Existing RMR Contracts Terminated: None.

Critical Path Projects: None.

McCall Pocket of the Fresno Area

Load Management Projects Proposed: None

Transmission Projects Management Proposed: None

New Area Generation: None

New Generating Units Proposed: None

Technical Review:

The contingency that determines the RMR requirement in this area is the loss of the Mc Call #3 230/115 kV transformer bank. For this particular outage, the system limitation that determines the amount of required RMR generation is the emergency thermal overload of the Mc Call #1 or #2 230/115 kV transformer banks. The total RMR requirement, to eliminate the current worst contingency in this pocket, is about 971 MW for year 2007.

Recommendation:

Load Management Projects Accepted: None.

Transmission Projects Accepted: None.

LARS RMR Required Capacity: No additional units are needed beyond the other pocket requirements. See Wilson pocket needs for Kings River Watershed I and Herndon pocket need for the Kings River Watershed II and San Joaquin Watershed.

Existing RMR Contracts Terminated: None.

Critical Path Projects: None.

LA Basin Area

Eastern Pocket of the LA Basin:

Technical Review:

The Eastern pocket has no RMR requirements in 2007.

Existing RMR Contracts Terminated: Etiwanda #3 and #4 as shown in the table.

Name	Nameplate Capacity (MW)	Available Capacity (MW)	Existing RMR Unit?
Etiwanda #3	320	320	Y
Etiwanda #4	320	320	Y
Total	640	640	

Western Pocket of the LA Basin:

Load Management Projects Proposed: None.

Transmission Projects Proposed: None.

New Area Generation: None.

New Generating Units Proposed: None.

Technical Review:

At least two Western LA Basin units are required to be on line at all times per ISO Operating Procedure G-219, when SCE load is above 15,500 MW. Three units are required to cover for loss of one unit.

Recommendation:

Load Management Projects Accepted: None.

Transmission Projects Accepted: None.

LARS RMR Required Capacity: Three units as shown in the table.

Name	Nameplate Capacity (MW)	Existing RMR Unit?
Alamitos # 3	320	Y
Huntington Beach # 1	215	Y
Huntington Beach # 2	215	Y
Total	750	

Existing RMR Contracts Terminated: None.

Critical Path Projects and Assumptions:

1. No significant market units are mothballed in 2007

San Diego Area

Load Management Projects Proposed: None.

Transmission Projects Proposed: None.

New Area Generation: None.

New Generation Unit Proposed: Two as shown in table.

Name	Nameplate Capacity (MW)
MMC Escondido	35.5
MMC Chula Vista	35.5
Total	71

Technical Review:

The RMR requirement in the San Diego area is described by the over-lapping outage of the Imperial Valley- Miguel 500 kV line and Palomar CC (541 MW) while staying within the South of San Onofre (WECC Path 44) import capability rating. That rating is 2200 MW with SWPL in service and 2500 MW with any segment of Southwest Power Link (SWPL) out of service. This Cal-ISO single contingency RMR limitation of an N-1 and G-1 does not allow the use of RAS to shed load. The total RMR requirement, to eliminate the current worst contingency in this pocket, is about 2460 MW for year 2007. SDG&E has dispatchable demand side management programs, which can reduce the generation requirement up to 29 MW for year 2007.

Recommendation:

Load Management Projects Accepted: None.

Transmission Projects Accepted: None.

LARS RMR Required Capacity: Facilities as shown in the table.

Name	Maximum Net Dependable Capacity (MW)	Existing RMR Units	Required Units
El Cajon CT	13	Y	Y
Kearney 1	15	Y	Y
Kearney 2A	14	Y	Y
Kearney 2B	14	Y	Y
Kearney 2C	14	Y	Y
Kearney 2D	13	Y	Y
Kearney 3A	15	Y	Y
Kearney 3B	14	Y	Y
Kearney 3C	14	Y	Y
Kearney 3D	14	Y	Y
Miramar CT 1	17	Y	Y
Miramar CT 2	16	Y	Y
Encina 1	106	Y	Y
Encina 2	103	Y	Y
Encina 3	109	Y	Y
Encina 4	299	Y	Y
Encina 5	329	Y	Y
Encina CT	14	Y	Y
South Bay 1	145	Y	Y
South Bay 2	149	Y	Y
South Bay 3	174	Y	N
South Bay 4	221	Y	Y
South Bay CT	13	Y	Y
Cal Peak Border	42	Y	Y
Cal Peak El Cajon	42	Y	Y
Cal Peak Escondido	42	Y	Y
Coral Border 1	46	N	N
Coral Border 2	46	N	N
MMC Chula Vista	35.5	N	Y
MMC Escondido	35.5	N	Y
Main Street Energy Center	46.6	Y	Y
Palomar Energy Center	541	Y	Y
Total	2712	2549	2446

Existing RMR Contracts Terminated: One – South Bay unit 3 (see table above).

Critical Path Projects: None.