

APPENDICES TABLE OF CONTENTS

Air Quality

- Appendix A1 Sulfur Content in Natural Gas
- Appendix A2 Rule 30
- Appendix A3 List of Sources Provided by SCAQMD

Biological Resources

- Appendix B1 Correspondence with Agencies
- Appendix B2 Biological Assessment
- Appendix B3 USACE letters dated May 15, 2007 and June 20, 2007

Groundwater

- Appendix C1 1978 Chino Basin Judgment
- Appendix C2 Chino Basin Water Master's Twenty-Eighth Annual Report
- Appendix C3 Relocation of West Well

TSE

- Appendix D System Impact Study

Appendix A
Air Quality

Appendix A1	Sulfur Content in Natural Gas
Appendix A2	Rule 30
Appendix A3	List of Sources Provided by SCAQMD

Appendix A1
Sulfur Content in Natural Gas

From 01/06 to 12/06 (grains S/100 cf)

Out of State Suppliers Location	H ₂ S			RSH			Total Sulfur*		
	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
NN	0.001	0.065	0.011	0.001	0.055	0.004	0.070	0.167	0.110
B1	0.007	0.028	0.013	0.028	0.088	0.058	0.051	0.114	0.071
B2	0.005	0.019	0.012	0.024	0.107	0.065	0.059	0.119	0.078
SN	0.003	0.039	0.010	0.025	0.133	0.071	0.030	0.152	0.081
WR/KM	0.000	0.142	0.052	0.000	0.157	0.038	0.038	0.227	0.103
KJ	0.015	0.159	0.031	0.005	0.057	0.013	0.079	0.222	0.098
values of total sulfur in gas consumed at SGGS site							0.055	0.167	0.090
SGGS sulfur used in emission calculations								0.200	

From 01/06 to 12/06 (ppmv S)

Out of State Suppliers Location	H ₂ S			RSH			Total Sulfur*		
	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg
NN	0.02	1.10	0.18	0.02	0.93	0.06	1.18	2.82	1.85
B1	0.13	0.48	0.22	0.47	1.48	0.97	0.86	1.92	1.19
B2	0.08	0.31	0.21	0.41	1.80	1.10	0.99	2.01	1.31
SN	0.04	0.66	0.17	0.42	2.25	1.19	0.51	2.56	1.36
WR/KM	0.00	2.39	0.87	0.01	2.65	0.64	0.64	3.82	1.74
KJ	0.25	2.68	0.52	0.08	0.96	0.21	1.34	3.74	1.65
									1.52

Assuming 16.9 ppm = 1 grains S/Ccf

* Includes estimated supplemental odorant based on border guidelines of 50/50 t-butyl mercaptan/thiophane

** SoCalGas Specifications allow up to 0.25 gr.H₂S/100scf and 0.75 gr. S/100scf Total Sulfur

Notes:

NN= North Needles, refers to our interconnections with Transwestern and Questar

B1 & B2= Blythe 1 & 2 refers to our interconnections with El Paso's southern system at Blythe. There are two GCs there, one for each EP pipeline that feeds us. Generally, Permian supplies are received here.

SN= refers to South Needles, also known as Topock. This is another location where we connect with El Paso's system. Generally, we receive San Juan basin supplies here.

WR/KM= refers to Wheeler Ridge interconnection with the Kern-Mojave Pipeline system. This location is also downstream of our interconnection with Oxy (CA local production) and PG&E's backbone interconnection with us at Kern River Station.

KJ= refers to our interconnection with the Kern-Mojave combined pipeline system at Kramer Junction, also known as Adelanto.

The enclosed is provided for information purposes only. The Gas Company has made reasonable efforts to ensure all information is correct and consistent with the applicable Tariffs. To the extent there is any conflict with the Tariffs, the Tariffs shall govern in all cases. In addition, neither The Gas Company's publication nor verbal representations thereof constitutes any statement, recommendation, endorsement, approval or guaranty (either express or implied) of any product or service. Moreover, The Gas Company shall not be responsible for errors or omissions in this publication, for claims or damages relating to the use thereof, even if it has been advised of the possibility of such damages.

Appendix A2
Rule 30

TRANSPORTATION OF CUSTOMER-OWNED GAS

The general terms and conditions applicable whenever the Utility transports customer-owned gas over its system are described herein.

A. General

1. Subject to the terms, limitations and conditions of this rule and any applicable CPUC authorized tariff schedule, directive, or rule, the customer will deliver or cause to be delivered to the Utility and accept on redelivery quantities of customer-owned gas which shall not exceed Utility's capability to receive or redeliver such quantities. Utility will accept such quantities of gas from the customer or its designee and redeliver to the customer on a reasonably concurrent basis an equivalent quantity, on a term basis, to the quantity accepted.
2. The customer warrants to the Utility that the customer has the right to deliver the gas provided for in the customer's applicable service agreement or contract (hereinafter "service agreement") and that the gas is free from all liens and adverse claims of every kind. The customer will indemnify, defend and hold the Utility harmless against any costs and expenses on account of royalties, payments or other charges applicable before or upon delivery to the Utility of the gas under such service agreement.
3. The point(s) where the Utility will receive the gas into its intrastate system (point(s) of receipt, as defined in Rule No. 1) and the point(s) where the Utility will deliver the gas from its intrastate system to the customer (point(s) of delivery, as defined in Rule No. 1) will be set forth in the customer's applicable service agreement. Other points of receipt and delivery may be added by written amendment thereof by mutual agreement. The appropriate delivery pressure at the points of delivery to the customer shall be that existing at such points within the Utility's system or as specified in the service agreement.

B. Quantities

1. The Utility shall as nearly as practicable each day redeliver to customer and customer shall accept, a like quantity of gas as is delivered by the customer to the Utility on such day. It is the intention of both the Utility and the customer that the daily deliveries of gas by the customer for transportation hereunder shall approximately equal the quantity of gas which the customer shall receive at the points of delivery. However, it is recognized that due to operating conditions either (1) in the fields of production, (2) in the delivery facilities of third parties, or (3) in the Utility's system, deliveries into and redeliveries from the Utility's system may not balance on a day-to-day basis. The Utility and the customer will use all due diligence to assure proper load balancing in a timely manner.

(Continued)

(TO BE INSERTED BY UTILITY)
ADVICE LETTER NO. 3675
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ISSUED BY
Lee Schavrien
Vice President
Regulatory Affairs

(TO BE INSERTED BY CAL. PUC)
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RESOLUTION NO. _____

Rule No. 30

Sheet 2

TRANSPORTATION OF CUSTOMER-OWNED GAS

(Continued)

B. Quantities (Continued)

2. The gas to be transported hereunder shall be delivered and redelivered as nearly as practicable at uniform hourly and daily rates of flow. Utility may refuse to accept fluctuations in excess of ten percent (10%) of the previous day's deliveries, from day to day, if in the Utility's opinion receipt of such gas would jeopardize other operations. Customers may make arrangements acceptable to the Utility to waive this requirement.
3. The Utility does not undertake to redeliver to the customer any of the identical gas accepted by the Utility for transportation, and all redelivery of gas to the customer will be accomplished by substitution on a therm-for-therm basis.
4. Transportation customers, contracted marketers, and aggregators will be provided monthly balancing services in accordance with the provisions of Schedule No. G-IMB.
5. Gas shall be transported hereunder for use only by the customer within the state of California, and not for delivery or resale to a third party unless authorized by the Commission.

C. Electronic Bulletin Board

1. SoCalGas prefers and encourages customers to use Electronic Bulletin Board (EBB) as defined in Rule No. 1 to submit their transportation nominations to the Utility. Imbalance trades are to be submitted through EBB or by means of the Imbalance Trading Agreement Form (Form 6544). Charges for EBB are set forth in Rule No. 33 and are based upon the level of actual usage. Use of EBB is not mandatory for transportation only customers.

D. Operational Requirements

1. The customer must provide to the Utility the name(s) of its shipper(s) as well as any brokers or agents ("agent") used by the customer for delivery of gas to the Utility for transportation service hereunder and their authority to represent customer.
2. Transportation nominations may be submitted manually or through EBB. For each transportation nomination submitted manually, (by means other than EBB such as facsimile transmittal), a processing charge of \$11.87 shall be assessed. No processing charge will apply to an EBB subscriber for nominations submitted by fax at a time the EBB system is unavailable for use by the subscriber.

(Continued)

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 ADVICE LETTER NO. 3235
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Lee Schavrien
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(TO BE INSERTED BY CAL. PUC)
 DATE FILED Feb 7, 2003
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Rule No. 30

TRANSPORTATION OF CUSTOMER-OWNED GAS

(Continued)

D. Operational Requirements (Continued)

3. Transportation nominations submitted via EBB for the Timely Nomination cycle must be received by the Utility by 9:30 a.m. Pacific Clock Time one day prior to the flow date. Nominations submitted via fax must be received by the Utility by 8:30 a.m. Pacific Clock Time one day prior to the flow date. Nominations received after the nomination deadline will be processed after the nominations received before the nomination deadline. All nominations are considered original nominations and should be replaced to be changed.

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Nominations submitted via EBB for the Evening Nomination cycle must be received by the Utility by 4:00 p.m. Pacific Clock Time one day prior to the flow date. Nominations submitted via fax must be received by the Utility by 3:00 p.m. Pacific Clock Time one day prior to the flow date.

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Nominations submitted via EBB for the Intraday 1 Nomination cycle must be received by the Utility by 8:00 a.m. Pacific Clock Time on the flow date. Nominations submitted via fax must be received by the Utility by 7:00 a.m. Pacific Clock Time on the flow date.

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Nominations submitted via EBB for the Intraday 2 Nomination cycle must be received by the Utility by 3:00 p.m. Pacific Clock Time on the flow date. Nominations submitted via fax must be received by the Utility by 2:00 p.m. Pacific Clock Time on the flow date.

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Evening and Intraday nominations may be used to request an increase or decrease to scheduled volumes or a change to receipt or delivery points.

4. Where gas is transported by a shipper or agent to more than one customer of the Utility and the transporting pipeline's allocation to the shipper or agent is less than the shipper's or agent's requested quantity, such shipper or agent must allocate among its customers the total quantity of gas delivered each day to the Utility by the shipper or agent.

An allocation ranking must be submitted to the Utility no later than 3:00 p.m. Pacific Clock Time on the date of flow. An allocation ranking should be received for each flow date from each shipper. Agent rankings should be submitted along with the nominations.

If no allocation ranking is made by such shipper or agent by the due date and time, the Utility will use a pro rata allocation in allocating delivered quantities among the shipper's or agent's customers and the Utility's allocation of these quantities will prevail. The total quantity allocated among the customers of a shipper or agent during a month shall be adjusted by the Utility if necessary to match the actual monthly delivery to the Utility for the shipper or agent as reported by the transporting pipeline.

(Continued)

(TO BE INSERTED BY UTILITY)
ADVICE LETTER NO. 3235
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Lee Schavrien
Vice President
Regulatory Affairs

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Rule No. 30

Sheet 4

TRANSPORTATION OF CUSTOMER-OWNED GAS

(Continued)

Operational Requirements (Continued)

5. As between the customer and the Utility, the customer shall be deemed to be in control and possession of the gas to be delivered hereunder and responsible for any damage or injury caused thereby until the gas has been delivered at the point(s) of receipt. The Utility shall thereafter be deemed to be in control and possession of the gas after delivery to the Utility at the point(s) of receipt and shall be responsible for any damage or injury caused thereby until the same shall have been redelivered at the point(s) of delivery, unless the damage or injury has been caused by the quality of gas originally delivered to the Utility, for which the customer shall remain responsible.
6. Any penalties or charges incurred by the Utility under an interstate or intrastate supplier contract as a result of accommodating transportation service shall be paid by the responsible customer.
7. Customers receiving service from the Utility for the transportation of customer-owned gas shall pay any costs incurred by the Utility because of any failure by third parties to perform their obligations related to providing such service.

E. Interruption of Service

1. The customer's transportation service priority shall be established in accordance with the definitions of Core and Noncore service, as set forth in Rule No. 1, and the provisions of Rule No. 23, Continuity of Service and Interruption of Delivery. If the customer's gas use is classified in more than one service priority, it is the customer's responsibility to inform the Utility of such priorities applicable to the customer's service. Once established, such priorities cannot be changed during a curtailment period.
2. The Utility shall have the right, without liability (except for the express provisions of the Utility's Service Interruption Credit as set forth in Rule No. 23), to interrupt the acceptance or redelivery of gas whenever it becomes necessary to test, alter, modify, enlarge or repair any facility or property comprising the Utility's system or otherwise related to its operation. When doing so, the Utility will try to cause a minimum of inconvenience to the customer. Except in cases of unforeseen emergency, the Utility shall give a minimum of ten (10) days advance written notice of such activity.

F. Nominations in Excess of System Capacity

1. In the event the Utility determines that the transportation nominations received for a specific date of gas flow ("flow date") exceed its expected system capacity (including storage) on such flow date, the Utility shall apply Buy-Back service under Schedule No. G-IMB separately for each flow date that is overnominated. In such event, the Utility shall follow the procedure set forth below. This procedure and the resulting periods of excess nominations shall apply only to (1) all noncore transportation customers, and (2) all customers with usage exceeding 250,000 therms per year at each facility served under Schedule Nos. GT-10 and GT-NGV.

(Continued)

(TO BE INSERTED BY UTILITY)
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ISSUED BY
William L. Reed
Vice President
Chief Regulatory Officer

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DATE FILED May 19, 2000
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TRANSPORTATION OF CUSTOMER-OWNED GAS

(Continued)

F. Nominations in Excess of System Capacity (Continued)

2. If the Utility determines that transportation nominations received for a specific flow date will result in a period of excess nominations, the Utility shall effectuate at such time a reduction of Hub services that would contribute to the overnomination event and as-available storage injection nominations made for service under Schedule No. G-AUC. Such reductions shall be made in the order of the as-available service queue.
3. If such reductions in nominations are inadequate in resolving the excess transportation nominations problem, Utility shall notify all applicable customers that an excess nominations period shall be instituted. The Utility shall provide such notice via its EBB system.
4. The excess nominations period shall begin on the flow date(s) indicated by the Utility. Nominations for customers without automated meter reading devices will be reduced to the maximum daily quantity specified for the customer. Customers shall be allowed to reduce their nominations in response to the Utility's notification. Such nominations reductions must be received by the Utility within two (2) business hours from the Utility's notification. If such voluntary reductions are adequate to bring the system into balance, the overnomination flow date will be anceled. Nomination reductions received after this deadline shall be considered received for the next day's nominations.
5. In the event customers fail to adequately reduce their transportation nominations, the Utility shall reduce the nominations of those customers that the Utility believes are causing the excess nominations problem. In making such nominations reductions, the Utility shall utilize the most recent and best available operating data at its disposal.
6. In cases where the Utility reduces a customer's nomination under the above procedure and, as a result of such reduction, the customer uses Standby Procurement service under Schedule No. G-IMB in excess of the 10% tolerance band, the customer shall be allowed to additionally carry over the lesser of (1) the negative imbalance for the month in excess of the tolerance band, or (2) the amount of the customer's total involuntary nominations reductions for the month. Such additional carryover shall be applied to the customer's imbalance account at the conclusion of the imbalance trading period for the month in which the involuntary reduction occurred.
7. In accordance with the provisions of Schedule No. G-IMB, Buy-Back service shall be applied separately to each excess nominations day. Customer meters subject to maximum daily quantity limitations will use the maximum daily quantity as a proxy for daily usage. For each such day, the Utility shall apply the applicable Buy-Back rate to all of the customer's deliveries, less any firm storage injections made on behalf of the customer, for the designated flow date that are in excess of 110% of the customer's actual usage.

(Continued)

(TO BE INSERTED BY UTILITY)
ADVICE LETTER NO. 3235
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Lee Schavrien
Vice President
Regulatory Affairs

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Sheet 6

TRANSPORTATION OF CUSTOMER-OWNED GAS

(Continued)

F. Nominations in Excess of System Capacity (Continued)

8. Consistent with the requirements of Decision No. 92-07-025, the Utility's Gas Supply Department shall limit its deliveries into its system on behalf of its core sales market to no more than 110% of actual gas usage for the core (including firm storage injections on behalf of the core) during periods of excess transportation nominations.

G. Winter Deliveries

The Utility requires that customers deliver (using a combination of flowing supply and firm storage withdrawal) at least 50% of burn over a five day period from November through March. As the Utility's total storage inventory declines through the winter, the delivery requirement becomes daily and increases to 70% or 90% depending on the level of inventory relative to peak day minimums.

1. From November 1 through March 31 customers are required to deliver (flowing supply and firm storage withdrawal) at a minimum of 50% of burn over a 5-day period. In other words, for each 5-day period, the Utility will calculate the total burn and the total delivery. If the total delivery is less than 50% of the total burn, a daily balancing standby charge is applied. The daily balancing standby rate is 150% of the highest Southern California Border price during the five day period as published by Natural Gas Intelligence in "NGI's Daily Gas Price Index," including authorized franchise fees and uncollectible expenses (F&U) and brokerage fees. Imbalance trading and as-available withdrawals may not be used to offset the delivery minimums. As an additional requirement, retail core and core aggregation will deliver a volume no less than 50% of their allocated firm interstate pipeline rights.
 - a. "Burn" means usage and is defined as metered throughput or an estimated quantity such as Minimum Daily Quantity (MinDQ), as defined in Rule No. 1, for customers without automated meters.
 - b. Example five-day periods are: Nov. 1 through Nov. 5, Nov. 6 through Nov. 10, Nov. 11 through Nov. 15 and so on. November with 30 days has six 5-day periods. December, January and March with 31 days have a 6-day period at the end of the month. February has a shortened 3 or 4-day period at the end of the month. The current 5-day period will run its course fully before the implementation of the 70% daily requirement. In the event that inventories rise above the 70% daily trigger levels by 1 Bcf, then a new, 5-day period will be implemented on the following day.
 - c. Example calculations for determining volumes subject to the daily balancing standby rate are: if over 5 days, total burn is 500,000 therms and total deliveries (including firm withdrawal) are 240,000 therms, then 10,000 therms is subject to daily balancing standby rate. (50% times 500,000 minus 240,000 equals 10,000).

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 ADVICE LETTER NO. 2734
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Paul J. Cardenas
 Vice President

(TO BE INSERTED BY CAL. PUC)
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TRANSPORTATION OF CUSTOMER-OWNED GAS

(Continued)

G. Winter Deliveries (Continued)

1. (continued)

- d. Example calculations in using NGI's Daily Gas Price Index for determining the daily balancing standby rate are: If for Jan. 6 through Jan. 10 the NGI Southern California Border quoted price ranges are \$2.36- 2.39, \$2.36-2.44, \$2.38-2.47, \$2.36-2.42, and \$2.37- 2.45, respectively, then the daily balancing standby rate becomes \$3.71 (\$2.47 times 150%).
 - e. With the exception of weekends and holidays, the Utility will use quotes from the NGI publication dated on the same day as the flow date. Weekend or holiday flow dates will use the first available publication date after the weekend or holiday.
 - f. Under current capacity assignments, 50% of core (retail core plus core aggregation) interstate pipeline rights translates to 522 MMcfd. For aggregators this translates to 50% of the Daily Contract Quantity (DCQ) as defined in Rule No. 1.
2. When total inventory declines to the "peak day minimum + 20 Bcf trigger," the minimum daily delivery requirement increases to 70%. Customers are then required to be balanced (flowing supply plus firm storage withdrawal) at a minimum of 70% of burn on a daily basis. The 5-day period no longer applies since the system can no longer provide added flexibility. The daily balancing standby rate is 150% of the highest Southern California Border price per NGI's *Daily Gas Price Index* for the day (including authorized F&U and brokerage fees) and is applied to each day's deliveries which are less than the 70% requirement. In this regime as-available storage withdrawal is cut in half. All Hub activity contributing to the underdelivery situation (i.e., Hub deliveries greater than Hub receipts) is suspended.
- a. Peak day minimums are calculated annually before November 1 as part of normal winter operations planning. The peak day minimum is that level of total inventory that must be in storage to provide deliverability for the core 1-in-35 year peak day event, firm withdrawal commitments and noncore balancing requirement.
 - b. Example calculations in this regime for determining volumes subject to the daily balancing standby rates are: If on January 6 total burn is 500,000 therms, and total deliveries (including firm withdrawal) are 300,000 therms then 50,000 therms is subject to the daily balancing standby charge (70% times 500,000 minus 300,000 equals 50,000).
 - c. Example calculations in using NGI's Daily Gas Price Index for daily balancing standby rates in this regime are: if for January 6 and January 7, the NGI Southern California Border quoted price ranges are \$2.36-2.39 and \$2.36-2.44, then the daily balancing standby rates become \$3.59 (150% of 2.39) for January 6, and \$3.66 (150% times 2.44) for January 7, respectively.

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TRANSPORTATION OF CUSTOMER-OWNED GAS

(Continued)

G. Winter Deliveries (Continued)

3. When total inventories decline to the "peak day minimum + 5 Bcf trigger," the minimum daily delivery requirement increases to 90%. Customers are required to be balanced (flowing supply plus firm storage withdrawal) at a minimum of 90% of burn on a daily basis. Similar to the 70% regime the 5 day period no longer applies. The daily balancing standby rate is charged daily and is 150% of the highest Southern California Border price per NGI's *Daily Gas Price Index* for the day (including authorized F&U and brokerage fees). In this regime there are no as-available storage withdrawals. All Hub activity contributing to the underdelivery situation (i.e., Hub deliveries greater than Hub receipts) is suspended.
4. Information regarding the established peak day minimums, daily balancing trigger levels and total storage inventory levels will be made available to customers on a daily basis via EBB and other customer notification media.
5. If a wholesale customer so requests, the Utility will nominate firm storage withdrawal volumes on behalf of the customer to match 100% of actual usage assuming the customer has sufficient firm storage withdrawal and inventory rights to match the customer's supply and demand.
6. The Utility will accept intra-day nominations to increase deliveries.
7. In all cases, current BCAP rules for monthly balancing and monthly imbalance trading continue to apply. Volumes not in compliance with the 50%, 70% and 90% minimum delivery requirements, purchased at the daily balancing standby rate, are credited toward the monthly 90% delivery requirements. Daily balancing charges remain independent of monthly balancing charges. Daily balancing and monthly balancing charges go to the Purchased Gas Account (PGA). Schedule No. G-IMB provides details on monthly and daily balancing charges.

H. Accounting and Billing

1. The customer and the Utility acknowledge that on any operating day during the customer's applicable term of transportation service, the Utility may be redelivering quantities of gas to the customer pursuant to other present or future service arrangements. In such an event, the Utility and customer agree that the total quantities of gas shall be accounted for in accordance with the provisions of Rule No. 23. If there is no conflict with Rule No. 23, the quantities of gas shall be accounted for in the following order:

(Continued)

(TO BE INSERTED BY UTILITY)
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Rule No. 30

TRANSPORTATION OF CUSTOMER-OWNED GAS

(Continued)

H. Accounting and Billing (Continued)

1. (Continued)

- a. First, to satisfy any minimum quantities under existing agreements.
 - b. Second, after complete satisfaction of (a), then to any supply or exchange service arrangements with the customer.
 - c. Third, after the satisfaction of (a) and (b), then to any subsequently executed service agreement.
2. The customer agrees that it shall accept and the Utility can rely upon, for purposes of accounting and billing, the allocation made by customer's shipper as to the quality and quantity of gas, expressed both in Mcf and therms, delivered at each point of receipt during the preceding billing period for the customer's account. If the shipper does not make such an allocation, the customer agrees to accept the quality and quantity as determined by the Utility. All quality and measurement calculations are subject to subsequent adjustment as provided in the Utility's tariff schedules or applicable CPUC rules and regulations. Any other billing correction or adjustment made by the customer or third party for any prior period shall be based on the rates or costs in effect when the event occurred and accounted for in the period they are reconciled.
3. The Utility shall render to the customer an invoice for the services hereunder showing the quantities of gas, expressed in therms, delivered to the Utility for the customer's account, at each point of receipt and the quantities of gas, expressed in therms, redelivered by Utility for the customer's account at each point of delivery during the preceding billing period. The Customer shall pay such amounts due hereunder within nineteen (19) calendar days following the date such bill is mailed.
4. Both the Utility and the customer shall have the right at all reasonable times to examine, at its expense, the books and records of the other to the extent necessary to verify the accuracy of any statement, charge, computation, or demand made under or pursuant to service hereunder. The Utility and the customer agree to keep records and books of account in accordance with generally accepted accounting principles and practices in the industry.

I. Gas Delivery Specifications

- 1. The natural gas stream delivered into the Utility's system shall conform to the gas quality specifications as provided in any applicable agreements and contracts currently in place between the entity delivering such natural gas and the Utility at the time of the delivery. If no such agreement is in place, the natural gas shall conform to the gas specifications as defined below.

(Continued)

(TO BE INSERTED BY UTILITY)
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Lee Schavrien
Vice President
Regulatory Affairs

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TRANSPORTATION OF CUSTOMER-OWNED GAS

(Continued)

I. Gas Delivery Specifications (Continued)

- 2. Gas delivered into the Utility's system for the account of a customer for which there is no existing contract between the delivering pipeline and the Utility shall be at a pressure such that the gas can be integrated into the Utility's system at the point(s) of receipt.
- 3. Gas delivered, except as defined in I.1 above, shall conform to the following quality specifications at the time of delivery:
 - a. Heating Value: The minimum heating value is nine hundred and ninety (990) Btu (gross) per standard cubic foot on a dry basis. The maximum heating value is one thousand one hundred fifty (1150) Btu (gross) per standard cubic foot on a dry basis.
 - b. Moisture Content or Water Content: For gas delivered at or below a pressure of eight hundred (800) psig, the gas shall have a water content not in excess of seven (7) pounds per million standard cubic feet. For gas delivered at a pressure exceeding of eight hundred (800) psig, the gas shall have a water dew point not exceeding 20 degrees F at delivery pressure.
 - c. Hydrogen Sulfide: The gas shall not contain more than twenty-five hundredths (0.25) of one (1) grain of hydrogen sulfide, measured as hydrogen sulfide, per one hundred (100) standard cubic feet (4 ppm). The gas shall not contain any entrained hydrogen sulfide treatment chemical (solvent) or its by-products in the gas stream.
 - d. Mercaptan Sulfur: The gas shall not contain more than three tenths (0.3) grains of mercaptan sulfur, measured as sulfur, per hundred standard cubic feet (5 ppm).
 - e. Total Sulfur: The gas shall not contain more than seventy-five hundredths (0.75) of a grain of total sulfur compounds, measured as sulfur, per one hundred (100) standard cubic feet (12.6 ppm). This includes COS and CS₂, hydrogen sulfide, mercaptans and mono, di and poly sulfides.
 - f. Carbon Dioxide: The gas shall not have a total carbon dioxide content in excess of three percent (3%) by volume.
 - g. Oxygen: The gas shall not have an oxygen content in excess of two-tenths of one percent (0.2%) by volume, and customer will make every reasonable effort to keep the gas free of oxygen.
 - h. Inerts: The gas shall not contain in excess of four percent (4%) total inerts (the total combined carbon dioxide, nitrogen, oxygen and any other inert compound) by volume.
 - i. Hydrocarbons: For gas delivered at a pressure of 800 psig or less, the gas hydrocarbon dew point is not to exceed 45 degrees F at 400 psig or at the delivery pressure if the delivery pressure is below 400 psig. For gas delivered at a pressure higher than 800 psig, the gas hydrocarbon dew point is not to exceed 20 degrees F measured at a pressure of 400 psig.

(Continued)

(TO BE INSERTED BY UTILITY)
 ADVICE LETTER NO. 3675
 DECISION NO. 06-09-039

ISSUED BY
Lee Schavrien
 Vice President
 Regulatory Affairs

(TO BE INSERTED BY CAL. PUC)
 DATE FILED Nov 1, 2006
 EFFECTIVE Jun 7, 2007
 RESOLUTION NO. _____

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Rule No. 30

Sheet 11

TRANSPORTATION OF CUSTOMER-OWNED GAS

(Continued)

I. Gas Delivery Specifications (Continued)

3. (Continued)

- j. Merchantability: The gas shall not contain dust, sand, dirt, gums, oils and other substances injurious to Utility facilities or that would cause gas to be unmarketable.
- k. Hazardous Substances: The gas must not contain hazardous substances (including but not limited to toxic and/or carcinogenic substances and/or reproductive toxins) concentrations which would prevent or restrict the normal marketing of gas, be injurious to pipeline facilities, or which would present a health and/or safety hazard to Utility employees and/or the general public.
- l. Delivery Temperature: The gas delivery temperature is not to be below 50 degrees F or above 105 degrees F.
- m. Interchangeability: The gas shall have a minimum Wobbe Number of 1279 and shall not have a maximum Wobbe Number greater than 1385. The gas shall meet American Gas Association's Lifting Index, Flashback Index and Yellow Tip Index interchangeability indices for high methane gas relative to a typical composition of gas in the Utility system serving the area.

Acceptable specification ranges are:

- * Lifting Index (IL)
IL <= 1.06
- * Flashback Index (IF)
IF <= 1.2
- * Yellow Tip Index (IY)
IY >= 0.8

- n. Liquids: The gas shall contain no liquids at or immediately downstream of the receipt point.
- o. Landfill Gas: Gas from landfills will not be accepted or transported.
- p. Biogas: Biogas refers to a gas made from anaerobic digestion of agriculture and/or animal waste. The gas is primarily a mixture of methane and carbon dioxide. Biogas must be free from bacteria, pathogens and any other substances injurious to utility facilities or that would cause the gas to be unmarketable and it shall conform to all gas quality specifications identified in this Rule.

(Continued)

(TO BE INSERTED BY UTILITY)
 ADVICE LETTER NO. 3675
 DECISION NO. 06-09-039

ISSUED BY
Lee Schavrien
 Vice President
 Regulatory Affairs

(TO BE INSERTED BY CAL. PUC)
 DATE FILED Nov 1, 2006
 EFFECTIVE Jun 7, 2007
 RESOLUTION NO. _____

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Appendix A3
List of Sources Provided by SCAQMD

List of Sources Provided by SCAQMD

Fac ID	SIC Code	Name	Address	City	Zip	Appl Nbr	Appl Status	Appl Status Desc	AV30 NOX	AV30 CO	AV30 PM10	AV30 SOX	BCAT	BCAT Desc	Inspector/Engineer	Inspector Phone	Included	Reason eliminated
14495	3341	VISTA METALS CORPORATION	13425 WHITTRAM AVE	FONTANA	92335-2999	463575	20	ASSIGNED TO ENGINEER - CLASS I	0	0	0	0	0	1900 FURNACE OTHER MET OPS ALUMINUM	LINDA T BASILIO	(909) 396-3156	x	
14495	3341	VISTA METALS CORPORATION	13425 WHITTRAM AVE	FONTANA	92335-2999	464744	20	ASSIGNED TO ENGINEER - CLASS I	0	0	0	0	0	1900 FURNACE OTHER MET OPS ALUMINUM	LINDA T BASILIO	(909) 396-3156	x	
14495	3341	VISTA METALS CORPORATION	13425 WHITTRAM AVE	FONTANA	92335-2999	464746	20	ASSIGNED TO ENGINEER - CLASS I	0	0	0	0	0	1900 FURNACE OTHER MET OPS ALUMINUM	LINDA T BASILIO	(909) 396-3156	x	
14495	3341	VISTA METALS CORPORATION	13425 WHITTRAM AVE	FONTANA	92335-2999	464748	20	ASSIGNED TO ENGINEER - CLASS I	0	0	0	0	0	1900 FURNACE OTHER MET OPS ALUMINUM	LINDA T BASILIO	(909) 396-3156	x	
46268	3312	CALIFORNIA STEEL INDUSTRIES INC	14000 SAN BERNARDINO AVE	FONTANA	92335-5259	459829	20	ASSIGNED TO ENGINEER - CLASS I	0	0	0	0	0	282 GALVANIZING EQUIPMENT	MONICA FERNANDEZ N	(909) 396-2202		Title V minor revision
46268	3312	CALIFORNIA STEEL INDUSTRIES INC	14000 SAN BERNARDINO AVE	FONTANA	92335-5259	459831	20	ASSIGNED TO ENGINEER - CLASS I	0	0	0	0	0	201 ROLLERCOATER	MONICA FERNANDEZ N	(909) 396-2202	x	
46268	3312	CALIFORNIA STEEL INDUSTRIES INC	14000 SAN BERNARDINO AVE	FONTANA	92335-5259	459832	20	ASSIGNED TO ENGINEER - CLASS I	0	0	0	0	0	259 OVEN, CURING (RULE 1401 TOXICS)	MONICA FERNANDEZ N	(909) 396-2202	x	
46268	3312	CALIFORNIA STEEL INDUSTRIES INC	14000 SAN BERNARDINO AVE	FONTANA	92335-5259	464295	25	PERMIT TO CONSTRUCT GRANTED	230	1737	12	5	282 GALVANIZING EQUIPMENT	MONICA FERNANDEZ N	(909) 396-2202		VOC source	
11716	2952	FONTANA PAPER MILLS INC	13733 VALLEY BLVD	FONTANA	92335-5268	431253	20	ASSIGNED TO ENGINEER - CLASS I	0	0	0	0	0	19003 HEATER/FURNACE (5-20 MMBTU/HR) NAT GAS	KENNY K MATSUDA	(909) 396-2656		administrative change
11716	2952	FONTANA PAPER MILLS INC	13733 VALLEY BLVD	FONTANA	92335-5268	431255	20	ASSIGNED TO ENGINEER - CLASS I	0	0	0	0	0	43902 I C E (>500 HP) EM ELEC GEN DIESEL	KENNY K MATSUDA	(909) 396-2656		administrative change
11716	2952	FONTANA PAPER MILLS INC	13733 VALLEY BLVD	FONTANA	92335-5268	444632	20	ASSIGNED TO ENGINEER - CLASS I	0	0	0	0	0	705200 SAND CONVEYING	KENNY K MATSUDA	(909) 396-2656	x	
11716	2952	FONTANA PAPER MILLS INC	13733 VALLEY BLVD	FONTANA	92335-5268	450893	20	ASSIGNED TO ENGINEER - CLASS I	0	0	0	0	0		KENNY K MATSUDA	(909) 396-2656	x	
150915		CITY OF FONTANA	15556 SUMMIT AVE	FONTANA	92336-4602	467548	20	ASSIGNED TO ENGINEER - CLASS I	0	0	0	0	0	43901 I C E (50-500 HP) EM ELEC GEN-DIESEL	THAI TRAN	(909) 396-2562	x	
119940	2952	BUILDING MATERIALS MANUFACTURING CORP	11800 INDUSTRY AVE	FONTANA	92337-6936	368002	20	ASSIGNED TO ENGINEER - CLASS I	0	0	0	0	0	703920 STORAGE SILO LIME & LIMESTONE	RICHARD H HAWRYLEV	(909) 396-2657		permit issued 2000
119940	2952	BUILDING MATERIALS MANUFACTURING CORP	11800 INDUSTRY AVE	FONTANA	92337-6936	368088	20	ASSIGNED TO ENGINEER - CLASS I	0	0	0	0	0		RICHARD H HAWRYLEV	(909) 396-2657		permit issued 2000
119940	2952	BUILDING MATERIALS MANUFACTURING CORP	11800 INDUSTRY AVE	FONTANA	92337-6936	428212	20	ASSIGNED TO ENGINEER - CLASS I	0	0	0	0	0	340 ASPHALT ROOFING LINE	RICHARD H HAWRYLEV	(909) 396-2657		VOC source
151356		HOME DEPOT	16783 SANTA ANA AVE	FONTANA	92337-9306	466776	20	ASSIGNED TO ENGINEER - CLASS I	0	0	0	0	0	43901 I C E (50-500 HP) EM ELEC GEN-DIESEL	HENRIQUE C NASCIMEI	(909) 396-2519		outside 6 miles
800182	3241	RIVERSIDE CEMENT CO (EIS USE)	1500 RUBIDOUX BLVD	RIVERSIDE	92509-1841	436342	20	ASSIGNED TO ENGINEER - CLASS I	0	0	0	0	0	107125 AGGREGATE BULK UNLOADING	RICHARD H HAWRYLEV	(909) 396-2657		outside 6 miles
800182	3241	RIVERSIDE CEMENT CO (EIS USE)	1500 RUBIDOUX BLVD	RIVERSIDE	92509-1841	438408	20	ASSIGNED TO ENGINEER - CLASS I	0	0	0	0	0	40901 I C E (50-500 HP) N-EM STAT DIESEL	RICHARD H HAWRYLEV	(909) 396-2657		outside 6 miles
800182	3241	RIVERSIDE CEMENT CO (EIS USE)	1500 RUBIDOUX BLVD	RIVERSIDE	92509-1841	438409	20	ASSIGNED TO ENGINEER - CLASS I	0	0	0	0	0	43901 I C E (50-500 HP) EM ELEC GEN-DIESEL	RICHARD H HAWRYLEV	(909) 396-2657		outside 6 miles
800182	3241	RIVERSIDE CEMENT CO (EIS USE)	1500 RUBIDOUX BLVD	RIVERSIDE	92509-1841	451556	20	ASSIGNED TO ENGINEER - CLASS I	0	0	0	0	0	17200 KILN, COMB GAS/OIL FIRING	RICHARD H HAWRYLEV	(909) 396-2657		outside 6 miles
800182	3241	RIVERSIDE CEMENT CO (EIS USE)	1500 RUBIDOUX BLVD	RIVERSIDE	92509-1841	451557	20	ASSIGNED TO ENGINEER - CLASS I	0	0	0	0	0	17200 KILN, COMB GAS/OIL FIRING	RICHARD H HAWRYLEV	(909) 396-2657		outside 6 miles
800182	3241	RIVERSIDE CEMENT CO (EIS USE)	1500 RUBIDOUX BLVD	RIVERSIDE	92509-1841	453299	20	ASSIGNED TO ENGINEER - CLASS I	0	0	0	0	0		RICHARD H HAWRYLEV	(909) 396-2657		outside 6 miles
800182	3241	RIVERSIDE CEMENT CO (EIS USE)	1500 RUBIDOUX BLVD	RIVERSIDE	92509-1841	453300	20	ASSIGNED TO ENGINEER - CLASS I	0	0	0	0	0		RICHARD H HAWRYLEV	(909) 396-2657		outside 6 miles
800182	3241	RIVERSIDE CEMENT CO (EIS USE)	1500 RUBIDOUX BLVD	RIVERSIDE	92509-1841	453301	20	ASSIGNED TO ENGINEER - CLASS I	0	0	0	0	0		RICHARD H HAWRYLEV	(909) 396-2657		outside 6 miles
800182	3241	RIVERSIDE CEMENT CO (EIS USE)	1500 RUBIDOUX BLVD	RIVERSIDE	92509-1841	453302	20	ASSIGNED TO ENGINEER - CLASS I	0	0	0	0	0		RICHARD H HAWRYLEV	(909) 396-2657		outside 6 miles

Note:
Highlighted items represent suggested sources to be used in cumulative modeling for the SGGs project.

Appendix B
Biological Resources

Appendix B1 Correspondence with Agencies
Appendix B2 Biological Assessment
Appendix B3 USACE letters dated May 15, 2007 and June 20, 2007

Appendix B1 Correspondence with Agencies

Correspondence with U.S. Army Corps of Engineers

One Conversation Record dated July 26, 2007 and three dated July 31, 2007 between Shannon Pankratz, USACE, and Wayne Vogler, URS Corporation

Correspondence with California Department of Fish and Game

Conversation Record dated August 1, 2007 between the receptionist at the California Department of Fish and Game, Inland Desert Region, and Wayne Vogler, URS Corporation

Conversation Record dated August 1, 2007 between Gaby, California Department of Fish and Game, Inland Desert Region, and Wayne Vogler, URS Corporation

Correspondence with U.S. Fish and Wildlife Service

Conversation and Email Records dated March 12, 13, 16, and 22, 2007 and July 25 and 30, 2007 between Eric Porter, U.S. Fish and Wildlife Service, and David Kisner, URS Corporation

TELEPHONE CONVERSATION RECORD (TelCon)

URS Corporation 2625 S Miller St, Suite 104, Santa Maria, CA 93455				COPIES TO: File: Project File, URS Corp, San Francisco, CA	
DATE	7/26/07	TIME	09:00 am		
TelCon by :	Wayne Vogler	TelCon with :	Shannon Pankratz		
COMPANY	US ACOE, South Coast Branch, Regulatory Division				
ADDRESS				PHONE NO.	213-452-3412
PROJ NAME	San Gabriel Generating Station	PROJ/TASK NO.	28067169.80000		

Conversation Record:

I phoned Ms. Shannon Pankratz, the ACOE's contact person for the SGGs Project, to obtain guidance regarding Waters of the US Jurisdictional Determinations following recent new guidance on such determinations from ACOE Headquarters. Ms. Pankratz was out of the office until Tuesday July 31, 2007. I left a message requesting a return call.

TELEPHONE CONVERSATION RECORD (TelCon)

URS Corporation 2625 S Miller St, Suite 104, Santa Maria, CA 93455				COPIES TO:	
				File: Project File, URS Corp, San Francisco, CA	
DATE	7/31/07	TIME	11:15 am		
TelCon by :	Wayne Vogler	TelCon with :	Shannon Pankratz		
COMPANY	US ACOE, South Coast Branch, Regulatory Division				
ADDRESS				PHONE NO.	213-452-3412
PROJ NAME	San Gabriel Generating Station	PROJ/TASK NO.	28067169.80000		

Conversation Record:

Ms. Pankratz returned my call by leaving a voice mail on my phone.

TELEPHONE CONVERSATION RECORD (TelCon)

URS Corporation 2625 S Miller St, Suite 104, Santa Maria, CA 93455				COPIES TO:	
				File: Project File, URS Corp, San Francisco, CA	
DATE	7/31/07	TIME	13:37 pm		
TelCon by :	Wayne Vogler	TelCon with :	Shannon Pankratz		
COMPANY	US ACOE, South Coast Branch, Regulatory Division				
ADDRESS				PHONE NO.	213-452-3412
PROJ NAME	San Gabriel Generating Station	PROJ/TASK NO.	28067169.80000		

Conversation Record:

I returned Ms. Pankratz's call. She was not available to answer. I left a message asking her to return my call.

TELEPHONE CONVERSATION RECORD (TelCon)

URS Corporation 2625 S Miller St, Suite 104, Santa Maria, CA 93455				COPIES TO:	
				File: Project File, URS Corp, San Francisco, CA	
DATE	7/31/07	TIME	14:30 pm		
TelCon by :	Wayne Vogler	TelCon with :	Shannon Pankratz		
COMPANY	US ACOE, South Coast Branch, Regulatory Division				
ADDRESS			PHONE NO.	213-452-3412	
PROJ NAME	San Gabriel Generating Station	PROJ/TASK NO.	28067169.80000		

Conversation Record:

Ms. Pankratz returned my phone call. We were able to speak in person finally. I referred her to the letter provided by US ACOE regarding the need for permitting for proposed work at SGGs. We spoke about the existing figures and findings as identifying potential Waters of the US and the current task was to finalize those findings and make a formal jurisdictional determination. I requested guidance on how the ACOE was determining jurisdiction in cases where the water course originates as sheet flow from a neighboring property, flows across the SGGs work areas, and then enters large sub-terrain culverts before joining other jurisdictional waters. She stated there was not any standard guidance that resulted from the new ACOE Headquarter directives. Each jurisdictional determination was considered on a case by case basis. I offered to provide her with some pictures and background about the water courses so that she could then provide some guidance specific to the SGGs project. She stated a site visit may be necessary. She also stated that culverting of historic Waters channels do not remove jurisdiction, it is still a conveyable waterway, just with bad habitat.

TELEPHONE CONVERSATION RECORD (TelCon)

URS Corporation 2625 S Miller St, Suite 104, Santa Maria, CA 93455				COPIES TO:	
				File: Project File, URS Corp, San Francisco, CA	
DATE	8/1/07	TIME	14:10 pm		
TelCon by :	Wayne Vogler	TelCon with :	Receptionist		
COMPANY	CA DFG, Inland Deserts Region				
ADDRESS				PHONE NO.	909-484-0167
PROJ NAME	San Gabriel Generating Station	PROJ/TASK NO.	28067169.80000		

Conversation Record:

I phoned the Inland Desert Region office to determine the contact information of the person who responds to Streambed Alteration Agreements. I was referred to the local field office at phone number 909-484-0459.

TELEPHONE CONVERSATION RECORD (TelCon)

URS Corporation 2625 S Miller St, Suite 104, Santa Maria, CA 93455				COPIES TO:	
				File: Project File, URS Corp, San Francisco, CA	
DATE	8/1/07	TIME	14:10 pm		
TelCon by :	Wayne Vogler	TelCon with :	Gaby		
COMPANY	CA DFG, Inland Deserts Region				
ADDRESS				PHONE NO.	909-484-0459
PROJ NAME	San Gabriel Generating Station	PROJ/TASK NO.	28067169.80000		

Conversation Record:

I phoned the local field office to determine the contact information of the person who responds to Streambed Alteration Agreements. Jeff Brandt is the contact person for Streambed Alteration Agreements. He is currently on vacation and will be returning on Monday Aug 6, 2007. His direct phone line number is 909-987-7161.

URS Corporation 130 Robin Hill Road Suite #100, Goleta CA (Biology Resources Group)				COPIES TO: File: URS Corp, Santa Barbara, CA	
DATE	March 12, 2007	TIME	1130		
TelCon by :	David Kisner	TelCon to:	Eric Porter		
COMPANY	U.S. Fish and Wildlife Service				
ADDRESS	U.S. Fish and Wildlife Service, 6010 Hidden Valley Road, Carlsbad, CA 92011			PHONE NO.	(760) 431-9440 x285
PROJ. NAME	San Gabriel Generating Station	PROJ/TASK NO.	28067169.20200		

Conversation Record:

Mr. Porter and I discussed how the USFWS is divided into regions and people taking lead on certain species. Mr. Porter is the lead for DSF. A conservation bank has been established for DSF and may cost about \$50,000/ acre.

URS Corporation 130 Robin Hill Road Suite #100, Goleta CA (Biology Resources Group)				COPIES TO: File: URS Corp, Santa Barbara, CA	
DATE	March 12, 2007	TIME	1717		
E-mail by :	David Kisner	E-mail to :	Eric Porter		
COMPANY	U.S. Fish and Wildlife Service				
E-DDRESS	Eric_Porter@fws.gov			PHONE NO.	(760) 431-9440 x285
PROJ. NAME	San Gabriel Generating Station	PROJ/TASK NO.	28067169.20200		

Conversation Record:

I e-mailed two maps to Mr. Porter to get his input on the likelihood of DSF occupying the proposed laydown area.

URS Corporation 130 Robin Hill Road Suite #100, Goleta CA (Biology Resources Group)				COPIES TO: File: URS Corp, Santa Barbara, CA	
DATE	March 13, 2007	TIME	0848		
E-mail by :	Eric Porter	E-mail to :	David Kisner		
COMPANY	U.S. Fish and Wildlife Service				
E-DDRESS	Eric_Porter@fws.gov	PHONE NO.	(760) 431-9440 x285		
PROJ. NAME	San Gabriel Generating Station	PROJ/TASK NO.	28067169.20200		

Conversation Record:

Mr. Porter responded that there was a low probability based on the maps. He requested site photos to better assess the area.

URS Corporation 130 Robin Hill Road Suite #100, Goleta CA (Biology Resources Group)				COPIES TO: File: URS Corp, Santa Barbara, CA	
DATE	March 16, 2007	TIME	0916		
E-mail by :	David Kisner	E-mail to :	Eric Porter		
COMPANY	U.S. Fish and Wildlife Service				
E-DDRESS	Eric_Porter@fws.gov	PHONE NO.	(760) 431-9440 x285		
PROJ. NAME	San Gabriel Generating Station	PROJ/TASK NO.	28067169.20200		

Conversation Record:

I e-mailed three photos of the proposed laydown area.

URS Corporation 130 Robin Hill Road Suite #100, Goleta CA (Biology Resources Group)				COPIES TO: File: URS Corp, Santa Barbara, CA	
DATE	March 16, 2007	TIME	0934		
E-mail by :	Eric Porter	E-mail to :	David Kisner		
COMPANY	U.S. Fish and Wildlife Service				
E-DDRESS	Eric_Porter@fws.gov	PHONE NO.	(760) 431-9440 x285		
PROJ. NAME	San Gabriel Generating Station	PROJ/TASK NO.	28067169.20200		

Conversation Record:

Mr. Porter described the photos as “very surprising” and indicated that the soils look “great” for DSF. He recommended protocol surveys for the proposed laydown area.

URS Corporation 130 Robin Hill Road Suite #100, Goleta CA (Biology Resources Group)				COPIES TO: File: URS Corp, Santa Barbara, CA	
DATE	March 16, 2007	TIME	0957		
E-mail by :	David Kisner	E-mail to :	Eric Porter		
COMPANY	U.S. Fish and Wildlife Service				
E-DDRESS	Eric_Porter@fws.gov	PHONE NO.	(760) 431-9440 x285		
PROJ. NAME	San Gabriel Generating Station	PROJ/TASK NO.	28067169.20200		

Conversation Record:

I thanked Mr. Porter for his input and let him know we should be getting back to him when we had determined our “course of action”.

URS Corporation 130 Robin Hill Road Suite #100, Goleta CA (Biology Resources Group)				COPIES TO: File: URS Corp, Santa Barbara, CA	
DATE	March 16, 2007	TIME	1030		
E-mail by :	Eric Porter	E-mail to :	David Kisner		
COMPANY	U.S. Fish and Wildlife Service				
E-DDRESS	Eric_Porter@fws.gov	PHONE NO.	(760) 431-9440 x285		
PROJ. NAME	San Gabriel Generating Station	PROJ/TASK NO.	28067169.20200		

Conversation Record:

Mr. Porter suggested an HCP (Section 10) if we would be unable to conduct the 2 year protocol surveys.

URS Corporation 130 Robin Hill Road Suite #100, Goleta CA (Biology Resources Group)				COPIES TO: File: URS Corp, Santa Barbara, CA	
DATE	March 22, 2007	TIME	1130		
TelCon by :	David Kisner	TelCon to:	Eric Porter		
COMPANY	U.S. Fish and Wildlife Service				
ADDRESS	U.S. Fish and Wildlife Service, 6010 Hidden Valley Road, Carlsbad, CA 92011		PHONE NO.	(760) 431-9440 x285	
PROJ. NAME	San Gabriel Generating Station	PROJ/TASK NO.	28067169.20200		

Conversation Record:

I left a voice message for Mr. Porter regarding habitat conservation plans.

URS Corporation 130 Robin Hill Road Suite #100, Goleta CA (Biology Resources Group)				COPIES TO: File: URS Corp, Santa Barbara, CA	
DATE	March 22, 2007	TIME	1229		
E-mail by :	David Kisner	E-mail to :	Eric Porter		
COMPANY	U.S. Fish and Wildlife Service				
E-DDRESS	Eric_Porter@fws.gov	PHONE NO.	(760) 431-9440 x285		
PROJ. NAME	San Gabriel Generating Station	PROJ/TASK NO.	28067169.20200		

Conversation Record:

I requested a current list of approved DSF biologists.

URS Corporation 130 Robin Hill Road Suite #100, Goleta CA (Biology Resources Group)				COPIES TO: File: URS Corp, Santa Barbara, CA	
DATE	March 22, 2007	TIME	1246		
E-mail by :	Eric Porter	E-mail to :	David Kisner		
COMPANY	U.S. Fish and Wildlife Service				
E-DDRESS	Eric_Porter@fws.gov	PHONE NO.	(760) 431-9440 x285		
PROJ. NAME	San Gabriel Generating Station	PROJ/TASK NO.	28067169.20200		

Conversation Record:

Mr. Porter attached the "July 12, 2006" list of approved DSF biologists.

URS Corporation 130 Robin Hill Road Suite #100, Goleta CA (Biology Resources Group)				COPIES TO: File: URS Corp, Santa Barbara, CA	
DATE	March 22, 2007	TIME	1354		
E-mail by :	David Kisner	E-mail to :	Eric Porter		
COMPANY	U.S. Fish and Wildlife Service				
E-DDRESS	Eric_Porter@fws.gov	PHONE NO.	(760) 431-9440 x285		
PROJ. NAME	San Gabriel Generating Station	PROJ/TASK NO.	28067169.20200		

Conversation Record:

I informed Mr. Porter that the area codes for many of the biologists had changed from area code 909 to 959.

URS Corporation 130 Robin Hill Road Suite #100, Goleta CA (Biology Resources Group)				COPIES TO: File: URS Corp, Santa Barbara, CA	
DATE	March 22, 2007	TIME	1355		
E-mail by :	Eric Porter	E-mail to :	David Kisner		
COMPANY	U.S. Fish and Wildlife Service				
E-DDRESS	Eric_Porter@fws.gov	PHONE NO.	(760) 431-9440 x285		
PROJ. NAME	San Gabriel Generating Station	PROJ/TASK NO.	28067169.20200		

Conversation Record:

Mr. Porter thought it was 951 area code not 959.

URS Corporation 130 Robin Hill Road Suite #100, Goleta CA (Biology Resources Group)				COPIES TO: File: URS Corp, Santa Barbara, CA	
DATE	July 25, 2007	TIME			
TelCon by :	David Kisner	TelCon to:	Eric Porter		
COMPANY	U.S. Fish and Wildlife Service				
ADDRESS	U.S. Fish and Wildlife Service, 6010 Hidden Valley Road, Carlsbad, CA 92011		PHONE NO.	(760) 431-9440 x285	
PROJ. NAME	San Gabriel Generating Station	PROJ/TASK NO.	28067169.20200		

Conversation Record:

I left a voice message for Mr. Porter regarding who to send the BA to with USFWS and offering to update him on the project.

URS Corporation 130 Robin Hill Road Suite #100, Goleta CA (Biology Resources Group)				COPIES TO: File: URS Corp, Santa Barbara, CA	
DATE	July 30, 2007	TIME	1537		
E-mail by :	David Kisner	E-mail to :	Eric Porter		
COMPANY	U.S. Fish and Wildlife Service				
E-DDRESS	Eric_Porter@fws.gov		PHONE NO.	(760) 431-9440 x285	
PROJ. NAME	San Gabriel Generating Station	PROJ/TASK NO.	28067169.20200		

Conversation Record:

I informed Mr. Porter that Dr. Powell had not detected any DSF at the project site as of yet and I requested the name and address to whom the BA should be sent.

URS Corporation 130 Robin Hill Road Suite #100, Goleta CA (Biology Resources Group)				COPIES TO: File: URS Corp, Santa Barbara, CA	
DATE	July 30, 2007	TIME	1656		
E-mail by :	Eric Porter	E-mail to :	David Kisner		
COMPANY	U.S. Fish and Wildlife Service				
E-ADDRESS	Eric_Porter@fws.gov	PHONE NO.	(760) 431-9440 x285		
PROJ. NAME	San Gabriel Generating Station	PROJ/TASK NO.	28067169.20200		

Conversation Record:

Mr. Porter supplied the name and address of the contact person at USFWS for the BA.

Appendix B2
Biological Assessment

**BIOLOGICAL ASSESSMENT
SAN GABRIEL GENERATING
STATION
8996 ETIWANDA AVENUE
RANCHO CUCAMONGA, CA 91739**

**Prepared For:
US EPA Region IX
July 2007**

BIOLOGICAL ASSESSMENT SAN GABRIEL GENERATING STATION

Prepared for:

US EPA Region IX

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TABLE OF CONTENTS

Section		Page
	Executive Summary.....	ES-1
1	Section 1 ONE Introduction	1-1
	1.1 Purpose and Need	1-1
2	Section 2 TWO Description of the Proposed Action	2-1
	2.1 Action Area.....	2-1
	2.2 Proposed Action.....	2-1
3	Section 3 THREE Environmental Setting and Biotic Resources	3-1
	3.1 Habitat Description of Action Area	3-1
	3.2 Study Methods	3-2
	3.3 Federally-Listed Species.....	3-3
4	Section 4 FOUR Adverse Effects and Avoidance and Minimization Measures.....	4-1
	4.1 Potential Adverse Effects to the Delhi Sands Flower-Loving Fly.....	4-1
	4.2 Avoidance and Minimization Measures for the Delhi Sands Flower-Loving Fly	4-1
5	Section 5 FIVE Cumulative Adverse Effects	5-1
6	Section 6 SIX References.....	6-1
7	Section 7 SEVEN List of Preparers	7-1

Figures

Figure 1	Location of the Proposed Action
Figure 2	Existing Conditions Map
Figure 3	Proposed Action Area Map
Figure 4	CNDDDB: 5-mile Radius of the Proposed Plant Site Map

Appendices

Appendix A	Federally-Listed, Proposed, and Candidate Species Under USFWS Jurisdiction with Potential to Occur in the Vicinity of the San Gabriel Generating Station
Appendix B	Results of Delhi Sands Flower Loving Fly for the San Gabriel Generating Station Project Laydown Site

Acronyms

AFC	Application for Certification
BA	Biological Assessment
BNSF	Burlington Northern Santa Fe
CDFG	California Department of Fish and Game
CEC	California Energy Commission
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
CNDDDB	California Natural Diversity Database
CNPS	California Native Plant Society
DOC	Determination of Compliance
DSFLF	Delhi sands flower-loving fly
EGS	Etiwanda Generating Station
ESA	Endangered Species Act
I-10	Interstate 10
I-15	Interstate 15
OHV	Off-highway vehicle
PSD	Prevention of significant deterioration
SBKR	San Bernardino kangaroo rat
SCAQMD	South Coast Air Quality Management District
SGGS	San Gabriel Generating Station
SGPG	San Gabriel Power Generation
U.S.C.	United States Code
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
USGS	United States Geological Survey

San Gabriel Power Generation (SGPG), a wholly owned subsidiary of Reliant Energy, is proposing to build a 656 megawatt natural gas-fired combined cycle power plant within the northwest portion of the existing Etiwanda Generating Station site, east of Interstate 15 (I-15) in the City of Rancho Cucamonga. The proposed San Gabriel Generating Station (SGGS) is currently in the Application for Certification (AFC) process with the California Energy Commission (CEC). Air quality permitting for the proposed project will be included as part of the licensing of the SGGS by the CEC through the AFC process, with coordination between CEC and South Coast Air Quality Management District (SCAQMD), conducted by means of the Determination of Compliance (DOC) process. In addition, the applicant is applying for a Prevention of Significant Deterioration (PSD) permit from United States Environmental Protection Agency (USEPA) Region IX.

This Biological Assessment (BA) documents potential adverse effects to species listed as endangered, threatened, proposed for listing as endangered or threatened, or candidates for listing as endangered or threatened under the federal Endangered Species Act (ESA) that are regulated by the U.S. Fish and Wildlife Service (USFWS).

The Project is located in the City of Rancho Cucamonga, east of I-15, south of Arrow Street, and west of Etiwanda Avenue. As a result of the field reconnaissance and a habitat assessment survey, it was determined that the action area provides potential habitat suitable to support the federally endangered Delhi sands flower-loving fly (DSFLF; *Rhaphiomidas terminatus abdominalis*).

The action area, which consists of the proposed project's laydown area, is approximately 11 acres in size within a 15-acre parcel. The action area is dominated by disturbed ruderal non-native grassland, disturbed riparian, and alluvial sage scrub habitat, and has habitat characteristic of being part of the historic floodplain of Day Creek.

After a literature review, site reconnaissance, communication with individuals knowledgeable about the species, and consideration of the proposed activities, USEPA has determined that the proposed action is not likely to adversely affect the endangered DSFLF. Measures are proposed in this document that will minimize potential impacts to this species and mitigate any impacts.

San Gabriel Power Generation (SGPG), a wholly owned subsidiary of Reliant Energy, is proposing to build a 656 megawatt natural gas-fired combined cycle power plant within the northwest portion of the existing Etiwanda Generating Station site, approximately 1 mile east of Interstate 15 (I-15) and approximately 1.5 miles north of Interstate 10 (I-10) in the City of Rancho Cucamonga. The proposed San Gabriel Generating Station (SGGS) is currently undergoing environmental review pursuant to the California Environmental Quality Act (CEQA), with the California Energy Commission (CEC) as the lead agency. The Application for Certification (AFC) was filed in April 2007 and deemed data adequate by the CEC on May 23, 2007. The AFC review and approval process is anticipated to take approximately 12 months.

Air quality permitting for this project will be included as part of the licensing of the SGGS by the CEC with coordination between the CEC and South Coast Air Quality Management District (SCAQMD), conducted by means of the Determination of Compliance (DOC) process. The proposed SGGS will constitute new sources of air pollutant emissions that will trigger the New Source Review Requirements of Regulation XIII of the SCAQMD, which has regulatory authority over the area, including the proposed project site. The applicant filed the application for a Permit to Construct/Permit to Operate on May 1, 2007.

In addition, the proposed project will constitute new sources of attainment air pollution emissions that will trigger the Prevention of Significant Deterioration (PSD) requirements of 40 Code of Federal Regulations (CFR) 52.21 as a modification to an existing major source. The SGGS will be located within 100 kilometers of several PSD Class I areas. The PSD application was submitted to USEPA Region IX, with copies to the Federal Land Managers with jurisdiction over the PSD Class I areas (i.e., National Forest Service and National Park Service), on June 12, 2007.

This report is organized into seven sections. The remaining portion of Section 1 describes the purpose and need for the proposed action. Section 2 describes the action area and proposed action. Section 3 describes the affected environment, including the habitat description, study methods, and listed species that are relevant to the proposed action. Section 4 evaluates the potential effects on the affected species (i.e., the Delhi sands flower-loving fly [*Rhaphiomidas terminatus abdominalis*; DSFLF]) and presents measures to minimize potential adverse effects on the species. Potential cumulative effects are presented in Section 5. References are listed in Section 6, and the list of preparers for this report is provided in Section 7.

1.1 PURPOSE AND NEED

This Biological Assessment (BA) evaluates potential effects of the proposed action on the federally endangered DSFLF. Potential effects on federal listed species are evaluated in

accordance with the legal requirements set forth under Section 7 of the Endangered Species Act (ESA) (16 United States Code [U.S.C.] 1536). Criteria used to determine which species were considered for this BA and potential adverse effects to those species from project activities are presented. In addition, this report proposes measures to avoid and/or minimize take or disturbance to potentially affected species.

2.1 ACTION AREA

The SGGS Project is located in the City of Rancho Cucamonga, east of I-15, south of Arrow Street, and west of Etiwanda Avenue (Figure 1). The project area can also be described as within Section 8 of Township 1 South, Range 6 West, as depicted on the United States Geological Survey (USGS) 7.5-Minute Guasti Quadrangle Topographic Map. As a result of the field reconnaissance and a habitat assessment survey, it was determined that the action area provides potential habitat suitable to support the federally endangered DSFLF (see Figure 2). Assessment surveys of the SGGS plant site and other laydown/work areas did not indicate suitable habitat for federally threatened or endangered species; the SGGS plant and other work areas are sited within an existing power plant location on previously developed lands.

The proposed action area is approximately 11.2 acres within a 15-acre site approximately 1,300 feet due west of the proposed SGGS plant location anticipated to be used as a laydown area during the construction of the SGGS (for equipment and supply staging and contractor parking; see Figure 3). The use of this area would therefore be temporary. This site is bounded on the north by the Burlington Northern Santa Fe (BNSF) Railroad main east-west line, on the east by a BNSF spur track, on the south by a dirt road, and on the west by a dirt road. Further north of the site, beyond the BNSF main east-west line, is a surface water catchment basin, a metal smelting plant storage yard, and an automobile storage yard. Beyond the BNSF spur track to the east is a vacant ruderal field being developed as the Southern California Edison Rancho Vista electrical substation. Beyond the dirt roads to the south and west are disturbed ruderal fields of non-native grasses. Day Creek, a concrete lined channel, is approximately 300 feet west of the action area.

The action area encompasses marginal alluvial scrub and open sandy habitats; the habitat quality is poor as a result of anthropogenic disturbance regime observed during survey events (such as illegal dumping and off-highway vehicle [OHV] use). The vegetation is dominated by weed species such as mustards (*Brassica nigra* and *Hirschfeldia incana*), annual grasses (*Bromus diandrus* and *B. madritensis* ssp. *rubens*), and isolated patches of native shrubs such as California buckwheat (*Eriogonum fasciculatum* var. *rubens*). A small “wash” or drainage feature crosses from the northeast to the southern portion of this area; vegetation associated with the drainage includes narrowleaf willow (*Salix exigua*) (see Figure 2).

2.2 PROPOSED ACTION

Construction of the proposed SGGS is estimated to begin in September 2008 and take approximately 22 months, including plant startup. While the new plant will be constructed within the existing Etiwanda Generating Station (EGS) site and use areas within the EGS plant

site for construction laydown and trailers, additional offsite area is needed for construction laydown and worker parking.

Approximately 7.1 acres of the offsite construction laydown property would be used to park approximately 800 cars. Access will be via 6th Street to the temporary plant access road and then north on the temporary plant access road to the parking lot. Two entrances would be provided into the parking lot. The remaining acreage, which is about 4.1 acres, would be used for construction laydown (temporary storage of equipment, pipe, and structural steel until those materials and equipment are required for plant construction).

The first 100 feet of the temporary access road north of 6th Street would be asphalt paved. The remainder of the road would be surfaced with crushed rock, and the construction parking area and the laydown space would be surfaced with crushed rock.

Drainage onto the property is via six 48-inch-diameter corrugated metal pipe culverts that drain beneath the railroad tracks in the far northeastern corner of the site. The culverts appear to convey stormwater runoff from the metal smelting operation north of the BNSF tracks. Drainage from the culverts has eroded and enlarged the channel downstream of the railroad tracks and created a deep hole in the northeastern corner of the site. Most of this area is covered with fine sand that has been deposited since the culverts were installed.

The portion of the property to be used for construction parking and laydown area would be stripped to remove the vegetation, rough graded to achieve a uniform slope, wetted to optimum moisture content, and then compacted to stabilize the sand. The area would then be covered with 6 inches of crushed rock.

The natural drainage that crosses through the property would be straightened. At each of the three road crossings (see Figure 3), a 24-inch-diameter culvert would be installed. Each road crossing would be designed to be overtopped during large storm events.

The offsite construction laydown area property would be fenced with 6-foot-high chain-link fence topped with three strands of barbed wire on 45 degrees facing out. A 36-foot-wide double swing gate would be installed at each entrance road.

The property would be used only during construction of the proposed power plant. After construction was completed and the land no longer was required, the fence around the property would be removed and fencing on the west side of the property along the BNSF Railroad right-of-way would be replaced. The crushed rock would be removed, the culverts beneath the roads

would be removed, the drainage would be relocated to its original alignment, and the entire area would be seeded.

3.1 HABITAT DESCRIPTION OF ACTION AREA

The action area supports three predominate and distinct vegetative communities characterized by Holland (1986) as the following: alluvial fan sage scrub; non-native grassland; and disturbed (Figure 2). The vegetation communities identified in the study area are described below in detail.

Alluvial fan scrub vegetation communities occur on alluvial outwash fans along the base of the San Gabriel, San Bernardino, and San Jacinto mountains. Alluvial scrub communities are generally associated with infrequently scoured areas on floodplains and outwash fans in the Transverse and Peninsular ranges. It is considered to be a rare or threatened plant community that is highly fragmented due to urbanization and the extensive alteration of natural stream hydrology in southern California (Smith, 1980). These plant communities are composed of a variety of evergreen woody and drought-deciduous shrubs, with a significant component of larger evergreen shrubs typically found in chaparral (Kirkpatrick and Hutchinson, 1977; Smith, 1980) adapted to survival in the presence of intense periodic flooding. Scalebroom (*Lepidospartum squamatum*) is considered to be an indicator species of alluvial scrubs, and is usually described as a dominant or subdominant shrub in alluvial community descriptions, including the Scalebroom Series of Sawyer and Keeler-Wolf (1995) and the *Lepidospartum-Eriodictyon-Yucca* association described by Kirkpatrick and Hutchinson (1977). Scalebroom was observed within the study area during the initial survey.

Non-native grasslands typically occur in upland areas with deep soils of relatively flat terrain or gradual slopes below 3,000 feet in elevation. It is represented by a dense to sparse cover of annual grasses and is often associated with numerous species of both native and non-native forbs. The floristic diversity is affected by land use activity such as grazing, fire, or other mechanical disturbances. This community is often associated with sage scrub communities, representing the understory in areas of open shrub canopy. Within the study area, this community was dominated by non-native grasses, such as wild oat (*Avena barbata*), ripgut brome (*Bromus diandrus*), foxtail chess (*Bromus madritensis*), and fescue (*Vulpia myuros*). Other non-native species observed include short-podded mustard (*Hirshfeldia incana*), horehound (*Marrubium vulgare*), Russian thistle (*Salsola tragus*), and red-stemmed filaree (*Erodium cicutarium*).

Disturbed areas are generally devoid of vegetation due to recent mechanical clearing activities or off-highway vehicle activities. The small amount of vegetation that has begun to reclaim the soil is dominated by non-native, weedy species that are adapted to frequent disturbance. Many of the characteristic species of this disturbed habitat are also indicator species of non-native grasslands,

but disturbed areas tend to be more dominated by forbs than grasses. Such areas found within the study area were off-highway vehicles trails, illegal dumping, cleared land, and dirt access roads. Disturbance-tolerant vegetation identified on the sites included Russian thistle (*Salsola tragus*), horehound (*Marrubium vulgare*), Australian saltbush (*Atriplex semibaccata*), and jimson weed (*Datura wrightii*).

An area of fine sands, and low dune hummocks was observed in the northwestern region of the proposed parking area (see Figures 2 and 3). The vegetative cover ranged from 5 to 40 percent total absolute cover. California buckwheat, deerweed (*Lotus scoparius*), and telegraph weed (*Heterotheca grandiflora*) represented less than 1 percent cover throughout the area. Most of the sands are dominated by field mustard with areas of lower ground cover due to OHV use and disturbance. Though heavily disturbed, the area could potentially provide habitat for DSFLF (Powell, 2007).

3.2 STUDY METHODS

USEPA obtained a list of species and habitats that are listed as endangered, threatened, proposed for listing as endangered or threatened, or candidates for listing as endangered or threatened under the ESA that may occur in the action area from the following sources:

- U.S. Fish and Wildlife Service (USFWS) species lists provided for each 7.5 minute USGS quadrangle in the study area (Guasti quadrangle);
- A search of all species occurrences in the California Natural Diversity Database (CNDDDB) within a 5-mile radius of the proposed plant site (CDFG, 2007; Figure 4); and
- The CNPS electronic inventory (CNPS, 2007).

The six listed wildlife species identified by these sources as having potential to occur in the vicinity of the proposed action that are regulated by the USFWS under the ESA are listed in Appendix A, Table A-1. Several assessment surveys were conducted including presence/absence trapping surveys for San Bernardino kangaroo rat. Specifically, a survey to assess the habitat suitability for DSFLF was conducted on April 8, 2007 by Dr. Dale Powell. The results of this survey were that no DSFLF individuals were observed and the loose dune hummocks could potentially provide habitat for DSFLF.

As a result of the field and background review, USEPA determined that the action area provides habitat suitable to support the federally endangered DSFLF.

3.3 FEDERALLY-LISTED SPECIES

The DSFLF (Diptera: Mydidae) was listed as endangered on September 22, 1993, pursuant to Section 4 of the Endangered Species Act. The DSFLF was listed because widespread loss and degradation of its habitat had occurred to the point where extinction was imminent. Critical habitat for DSFLF has not been proposed or designated.

The DSFLF is one of nineteen *Rhaphiomidas* species and five recognized subspecies, all of which are restricted to southwestern United States and northwestern Mexico (Rogers and Mattoni, 1993). DSFLF adults are large insects (approximately 2.5 centimeters in length) with elongate bodies. An important distinguishing character is the DSFLF's long proboscis, which it uses to extract nectar while hovering next to flowers. The DSFLF is a strong, fast flyer, capable of dispersal flights in which it flies so rapidly that observers quickly lose visual contact (Kingsley, 1996).

The DSFLF is generally found in areas containing the "Delhi fine sands" soil type or other windblown soils. The areas covered by these Delhi soils make up the Colton Dunes system, which originally covered 88 square kilometers (40 square miles) within southwestern San Bernardino and northwestern Riverside counties.

The dominant physical characteristic of the Colton Dunes ecosystem is a series of dynamic windblown (aeolian) dunes, subject to repeated ground surface changes during periodic seasonal high winds. "Santa Ana" winds normally occur during autumn and winter. These winds facilitate transportation and maintenance of sand and provide periodic endogenous disturbance, disturbance to which the system has been exposed repeatedly through evolutionary time (McIntyre and Hobbs, 1999). The endogenous disturbance of the dune system by high winds may be an essential component of ecosystem function for the DSFLF.

Characteristic plants associated with the DSFLF include California buckwheat (*Eriogonum fasciculatum*), telegraph weed (*Heterotheca grandiflora*), and California croton (*Croton californicus*). Increased cover of introduced vegetation appears to reduce DSFLF abundance (Ballmer, 1989). Suitable habitat ideally contains only sparse vegetative cover, usually less than 40 percent. The Colton Dunes also support a number of other rare plants and animals, including the legless lizard (*Anniella pulchra*), San Diego horned lizard (*Phrynosoma coronatum blainvillii*), Delhi sands metalmark butterfly (*Apodemia mormo nigrescens*), Delhi sands Jerusalem cricket (*Stenopelmatus* not described species), convergent apiocerid fly (*Apiocera convergens*), and the potentially extinct Pringle's monardella (*Monardella pringlei*). The Delhi sands metalmark butterfly was recently described from the area (Emmel and Emmel, 1998).

The life history of the DSFLF is largely unknown. Oviposition (egg laying) generally occurs within loose, sandy soils in late summer months and may primarily occur near telegraph weed, (Rogers and Mattoni, 1993; Kingsley, 1996). Larval stages develop completely underground and emerge as adults from July through September. Larval food sources are unknown. Most larvae within the Mydidae are predacious (Borror et al., 1989), but DSFLF larvae failed to feed when presented with a variety of potential prey sources in laboratory trials (Rogers and Mattoni, 1993). Adults are most active during the warmest, sunniest parts of the day, and both males and females extract nectar from California buckwheat (Kingsley, 1996). It is not clear if nectar feeding is essential for adult survival or reproduction.

As of 1989, Ballmer estimated that more than 97 percent of the Colton Dunes system had been developed or severely modified (Ballmer, 1989). This loss of Delhi soils was primarily attributed to conversion of land to agriculture uses and development for urban and commercial use (USFWS, 1997). Osborne (2002) recently estimated this loss to be closer to 98 to 99 percent due to ongoing impacts of this nature. However, based on a preliminary Geographic Information System (GIS) analysis of mapped soils and updated aerial photography, the loss of potentially suitable habitat may be closer to 90 percent (CFWO, 2004). This difference is a reflection of the fact that DSFLF are now known to use moderately disturbed habitats.

Of the approximately 29,337 acres of Delhi soils that existed historically within San Bernardino and Riverside counties (the presumed original range of DSFLF), approximately 5,881 acres of Delhi soils outside of “dairy” areas were still vacant or undeveloped in 1999. Of the 5,881 acres, about 2,861 have moderate or high potential to support DSFLF based on survey results (CFWO, 2004). Only thirteen known locations of the DSFLF have been identified in areas that are not developed, and the status of many of these populations is unknown. In addition, one of these locations is being considered for development pending preparation of a Habitat Conservation Plan (FWS-WRIV-968.2). Virtually all populations occur in small, isolated habitat patches surrounded by incompatible land uses and are highly vulnerable to extirpation. Nearly all areas with extant populations have been proposed for development at some time, and almost the entire remaining habitat is privately owned.

Based on the best available survey information, there are eight known breeding sites (locations) distributed across three recovery units that are identified in the USFWS’ recovery plan for the DSFLF (USFWS, 1997). For the purpose of our analysis, we are defining a breeding site as a contiguous block of habitat with no deterrents or obstacles to movement (e.g., buildings, roads with heavy traffic) where evidence of reproduction (pupal cases, oviposition or egg laying, teneral or newly emerged adults) has been observed. It is important to understand that these breeding sites are not necessarily stable populations, and recent survey information is lacking for

most sites. The Colton recovery unit supports three breeding sites; the Jurupa recovery unit support two breeding sites; and the Ontario recovery unit supports two breeding sites. The DSFLF has been observed at eight other localities, but two of those localities have been developed, one is being considered for development, and we have no direct evidence of DSFLF reproduction at the remaining sites based on the available survey information.

The number of individuals observed at known occupied sites is extremely low in comparison with population sizes of related species with similar ecological and life history strategies (Rogers and Mattoni, 1993). Due to the cryptic nature of the DSFLF and existing regulations that do not allow mark-recapture techniques, it is not possible to accurately estimate population size for the DSFLF (Kingsley, 2002). Nonetheless, the fact that few DSFLF surveys report five or more individuals from occupied sites supports Rogers and Mattoni's (1993) assertion that no more than a few hundred individuals existed in 1989. It is possible that even fewer DSFLF exist today than in 1989 due to continued habitat loss and fragmentation. In addition, the quality of habitat and the area of Delhi soils now available to sustain breeding colonies at the 13 occupied sites are variable. The highest quality and largest contiguous block of available Delhi sands are found within the Colton recovery unit. Lands currently in conservation for the DSFLF include limited areas within five of the seven known Colton recovery unit breeding sites and one additional site where DSFLF have been observed, but no reproduction has been documented. A total of 112 acres of land throughout the three recovery units is currently conserved for the DSFLF.

The action area lies within the Ontario Habitat Recovery Unit.

The primary cause for the decline of the DSFLF is degradation of its habitat for agricultural and dairy uses and, more recently, the conversion/destruction of habitat through urban and commercial development. The trend for the San Bernardino Valley is for native habitats and low-intensity land uses to be converted into more profitable enterprises. This results in the continued conversion and fragmentation of native habitats on private lands. Nationwide, this conversion and fragmentation represents a major threat to ecosystem health and conservation of biological diversity (Meffe and Carroll, 1997). Development has led to the direct loss of DSFLF habitat and populations and resulted in indirect impacts to habitat through fragmentation and associated edge effects, including disruption of aeolian wind movement of sand throughout the Colton Dunes ecosystem.

DSFLF populations are at risk simply because of their small size. Small populations have higher probabilities of extinction than larger populations because their low abundance renders them susceptible to inbreeding, loss of genetic variation, high variability in age and sex ratios, demographic stochasticity and other random naturally occurring events, like wildfires, floods,

droughts, or disease epidemics (Soulé, 1987). Owing to the probabilistic nature of extinction, some small populations will survive in short term when faced with these demographic, environmental, and genetic stochastic risks, but may eventually disappear.

Another factor that renders populations vulnerable to stochastic events is isolation, which often acts in concert with small population size to increase the probability of extinction. Urbanization and land conversion have fragmented the historic range of the DSFLF such that remaining blocks of occupied habitat may now function more independently of each other where they were formerly connected. Isolated populations are more susceptible to long-term/permanent extirpation by accidental or natural catastrophes because the likelihood of re-colonization following such events is negatively correlated with the extent of isolation. The extirpation of remnant populations during local catastrophe will continue to become more probable as land development eliminates habitat and further constricts remaining populations. For these reasons, preservation of remaining occupied sites alone will not ensure DSFLF survival. Restoration of degraded and disturbed sites will be necessary for the survival of the species, so that populations are robust enough to sustain themselves through stochastic events and remain viable despite the indirect effects of surrounding development. Because the DSFLF has moderate movement ability in the adult phase (flying), different types of surroundings non-habitat, like a vacant field versus commercial development, will have different effects on dispersal potential between habitat fragments (Ricketts, 1999).

Fragmentation of habitat and the consequent edge effects often lead to increased vulnerability to introduced predators and competitors. For example, Argentine ants (*Linepithema humile*) are invading native California ecosystems. These non-native ants may have adverse direct or indirect effects on DSFLF populations. Argentine ants are known to exclude native ant species upon invasion (Holway et al., 2002), and they are known to reduce Dipteran richness and abundance in urban southern California habitat fragments (Bolger et al., 2000). Argentine ants could adversely affect DSFLF individuals directly by preying on larva and teneral (newly emerged) adults, by affecting the ecosystem prey base or seed plants, or by disrupting key ecosystem functions typically carried out by native ants. Invasion of these ants is expected with development and associated irrigation adjacent to areas occupied by DSFLF, and can have cascading effects through the ecosystem.

Edge effects of development also facilitate the introduction of invasive, alien weeds that degrade DSFLF habitat by out-competing and supplanting native vegetation. Additionally, these weeds alter the amount of soil moisture or otherwise alter the soil substrate. These opportunistic alien species displace native plant communities. Native plants cannot compete with drought-tolerant annual grasses in many parts of the Colton Dunes ecosystem once these grasses are established.

The diversity and abundance of arthropods have been found to be significantly reduced in coastal dune areas containing non-native plants versus native vegetation (Nagano et al., 1981; Nagano and Hogue, 1982; Slobodchikoff and Doyen, 1977). Similar effects are expected within the Colton Dunes ecosystem.

The protocol presence/absence survey for the San Bernardino Kangaroo Rat (SBKR; *Dipodomys merriami parvus*), a federally listed Endangered Species, ran for five days in from May 7 through May 12, 2007 and used USFWS approved trapping protocol surveys guidelines. No SBKR were captured during the survey (URS, 2007).

SECTION FOUR ADVERSE EFFECTS AND AVOIDANCE AND MINIMIZATION MEASURES

This section evaluates the potential effects of the proposed action to the DSFLF and proposes measures to avoid and minimize potential adverse effects.

4.1 POTENTIAL ADVERSE EFFECTS TO THE DELHI SANDS FLOWER-LOVING FLY

Protocol surveys for DSFLF are being conducted for the 2007 and 2008 flight period. Protocol surveys require two years of surveys in order to make a determination of presence or absence. If the project area is occupied by DSFLF then grubbing and removal of native vegetation (particularly California buckwheat, California croton, and telegraph weed) would result in a direct impact to habitat of the DSFLF. Loss of suitable habitat is one factor contributing to the decline of this species. Therefore, this would be a significant impact to the DSFLF.

Due to the high cover of the dune hummocks by invasive exotic vegetation, the high level of disturbance to the unvegetated areas by OHVs, and the lack of observations of the species at an abutting parcel, it is unlikely that DSFLF are found at the proposed project site. If the surveys determine that the project area is not occupied, then there will be no direct impact to the species.

4.2 AVOIDANCE AND MINIMIZATION MEASURES FOR THE DELHI SANDS FLOWER-LOVING FLY

To reduce potential impacts to DSFLF and its habitat, the following measures are proposed for work conducted at the offsite laydown area.

Measures Proposed in the SGGs AFC Document

Sand Dune Restoration (BIO-5). Remove the fine-grained sands found within the laydown area and stockpile in piles no more than 36 inches deep and protect from weedy, non-native species. Sands shall not be stockpiled for more than 24 months prior to replacement as small dune hummocks once the area has been returned to natural contours.

Develop a restoration plan for the sand dunes and submit for approval to CEC and USFWS. Restore native plants, including California buckwheat, California croton, and telegraph weed from local genetic sources in an open mosaic of 10 to 20 percent vegetative cover. Maintain the area free of exotic species and ensure establishment of native species within a period of 3 years. Fence area to exclude trespassers and OHVs from the area through restoration period. If restoration of the sandy soils is found to be unfeasible or problematic, DSFLF habitat will be purchased from an authorized mitigation bank in the region.

Limitation of Work Areas (BIO-6). Only those areas necessary as temporary laydown or parking areas will be disturbed. Excess areas will be avoided and excluded from disturbance by

SECTION FOUR ADVERSE EFFECTS AND AVOIDANCE AND MINIMIZATION MEASURES

fencing that will be maintained throughout the length of construction and the restoration period prescribed in BIO-5.

Additional Proposed Measures

Pre-Construction Surveys. Surveys for the presence of DSFLF will be conducted during the appropriate survey periods prior to ground-disturbing activities at the action area. The surveys will be conducted by approved biologists. Results of the surveys will be provided to USFWS.

Summary of Potential Adverse Effects to the Delhi Sands Flower-Loving Fly

Suitable habitat for DSFLF occurs within the action area. The habitation of the suitable habitat within the action area is not likely due to the highly disturbed nature of the area and the lack of observation of the DSFLF at a neighboring property through 2 years of survey efforts. The usage of the area by OHVs is the sole contributing factor to open sand areas; invasive seed species would otherwise dominate the site. The use of even low numbers of OHVs likely disturbs the feeding, breeding, and resting behavior of adult DSFLF (USFWS, 1997). The removal of the loose sands for the use of the area as a laydown and parking area for the construction of the SGGS power plant will result in an impact to the species through the temporary removal of habitat. This impact is temporary in nature as the area is expected to be used less than 24 months.

Temporary impacts will result to the DSFLF through the removal of habitat for a period less than 24 months. The removal of trespass (OHV activity) and restoration of the sands dune hummocks after SGGS construction will mitigate the temporary impacts of the SGGS construction and will result in improved habitat conditions for DSFLF.

Cumulative effects as defined by the ESA are those effects of future state or private activities that are reasonably certain to occur within the proposed action area (ESA, Section 402.14 (g)(4)). Cumulative effects to federally-listed, proposed, or candidate species addressed in this report would likely occur in association with other projects within the Inland Empire which would develop Greenfield sites into increased commercial and residential usage.

The proposed roadway embankment repair, in combination with other projects in the area, could result in net loss of habitat, contributing to cumulative effects on the DSFLF and its habitat in the local area. The loss of habitat resulting from the proposed action would contribute on a minor but incremental basis to cumulative effects to the DSFLF on a regional basis.

The loss of loose sands habitat due to the proposed action could combine with other projects in the area (past, present, and future) to create minimal cumulative adverse effects to the DSFLF. Sands dune hummocks would be replanted after construction. The proposed action is not expected to have a substantial cumulative impact on the DSFLF through the amount of loose sand habitat that would be disturbed, because the existing dune hummocks are heavily vegetated with non-native, invasive vegetation and contain a low amount of plant species associated with the DSFLF. Therefore, the proposed action would cumulatively affect loose sands habitat throughout the Inland Empire, but at a minimal level.

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EPA

URS

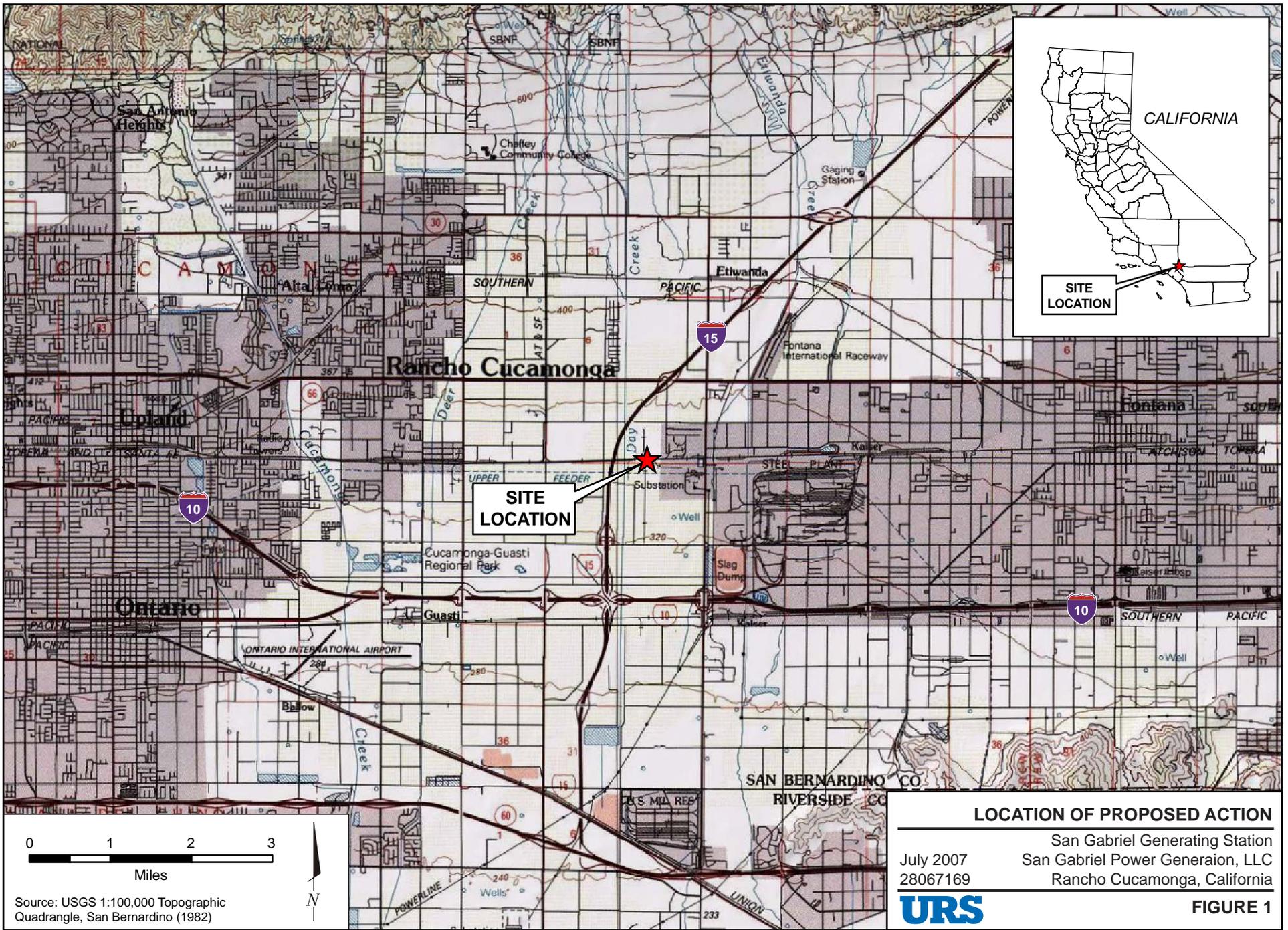
Anne Connell, Deputy Project Manager

David Kisner, Project Biologist

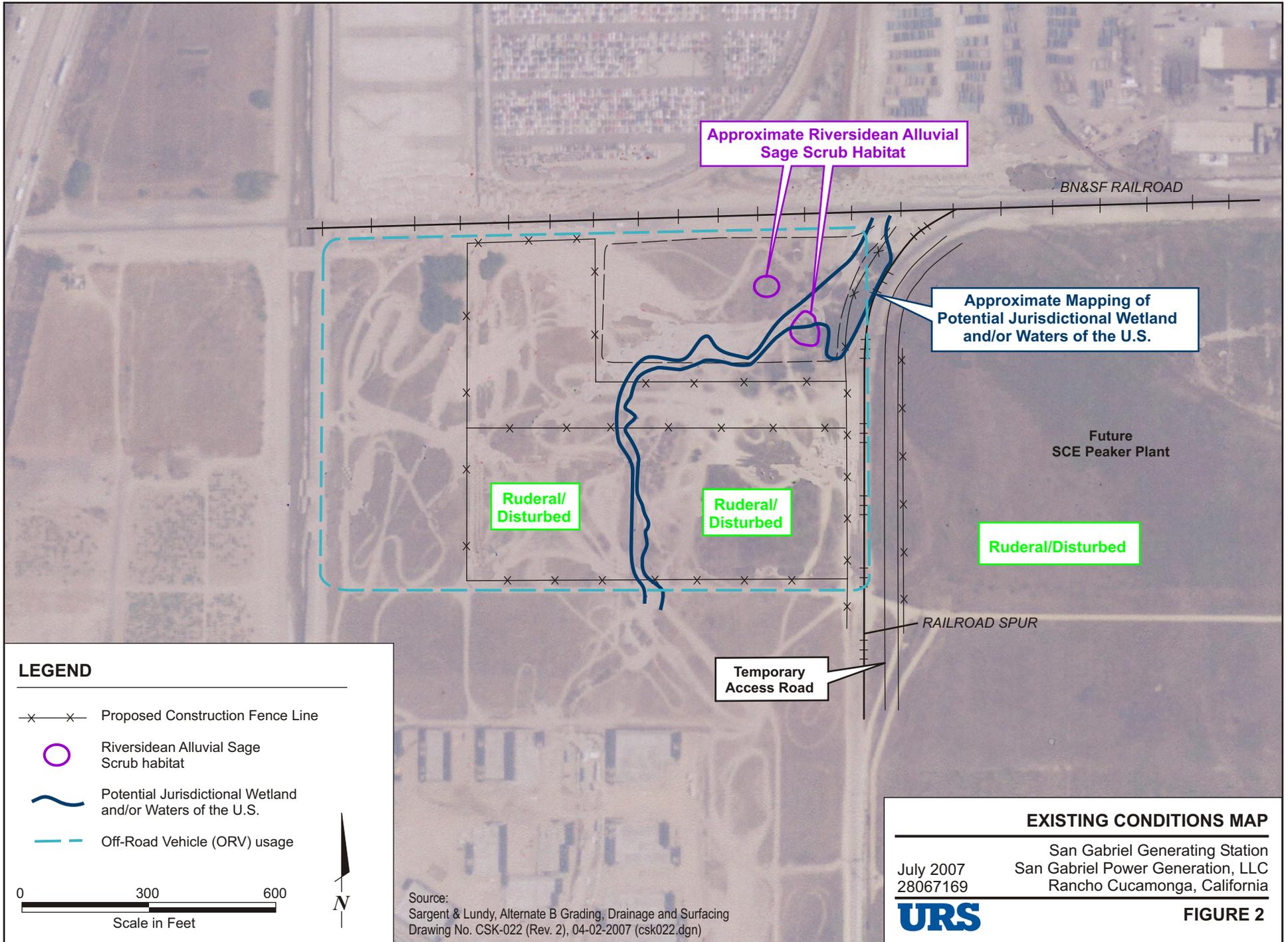
Wayne Vogler, Senior Biologist

Lincoln Hulse, Senior Biologist

Alyssa Boinay, Biologist



Source: USGS 1:100,000 Topographic
 Quadrangle, San Bernardino (1982)



Approximate Riversidean Alluvial Sage Scrub Habitat

Approximate Mapping of Potential Jurisdictional Wetland and/or Waters of the U.S.

Ruderal/Disturbed

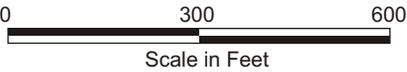
Ruderal/Disturbed

Ruderal/Disturbed

Temporary Access Road

LEGEND

- x—x— Proposed Construction Fence Line
- Riversidean Alluvial Sage Scrub habitat
- ~ Potential Jurisdictional Wetland and/or Waters of the U.S.
- - - Off-Road Vehicle (ORV) usage



Source:
Sargent & Lundy, Alternate B Grading, Drainage and Surfacing
Drawing No. CSK-022 (Rev. 2), 04-02-2007 (csk022.dgn)

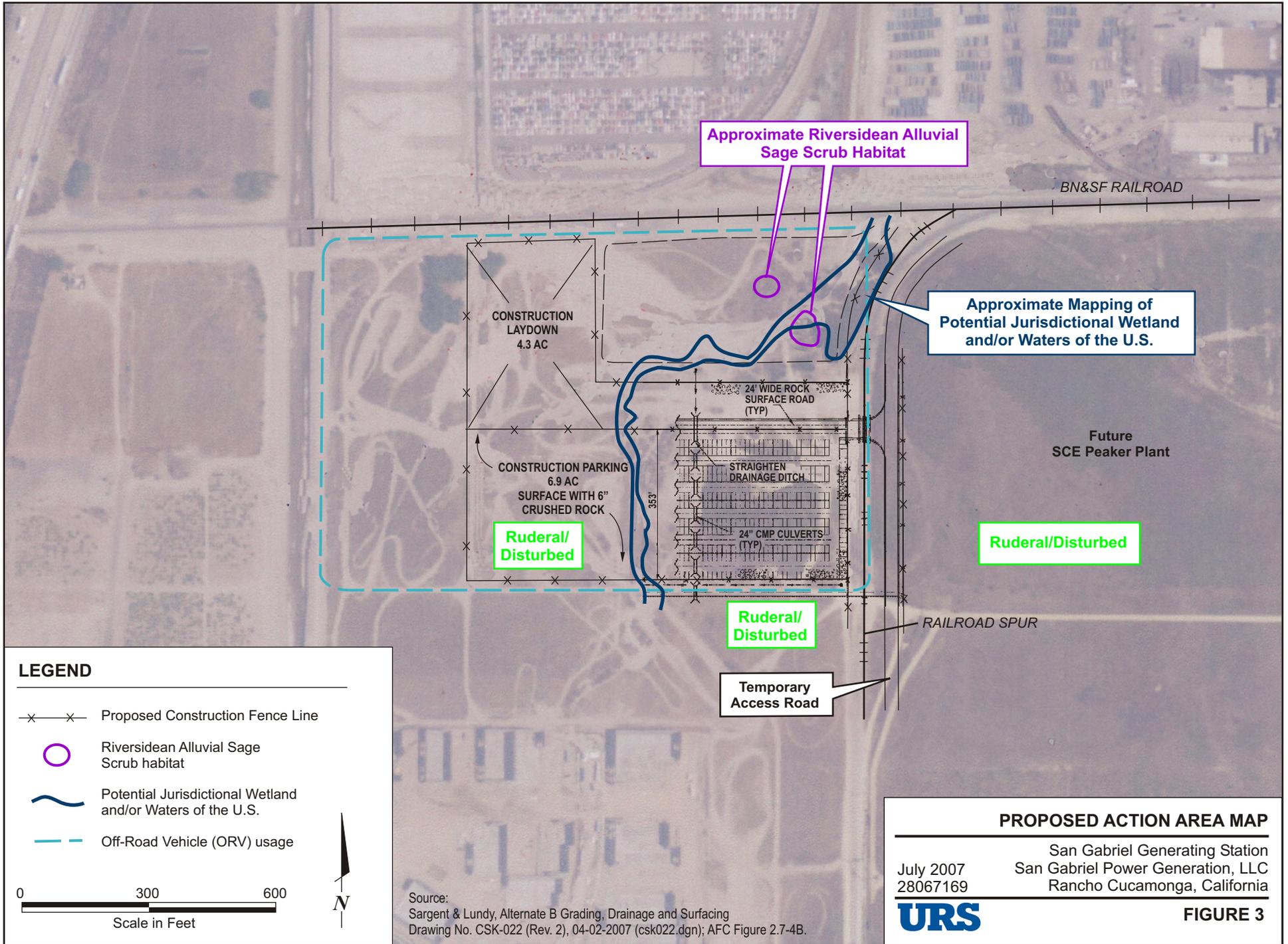
EXISTING CONDITIONS MAP

July 2007
28067169

San Gabriel Generating Station
San Gabriel Power Generation, LLC
Rancho Cucamonga, California



FIGURE 2



LEGEND

- x—x— Proposed Construction Fence Line
- Riversidean Alluvial Sage Scrub habitat
- ~ Potential Jurisdictional Wetland and/or Waters of the U.S.
- - - Off-Road Vehicle (ORV) usage



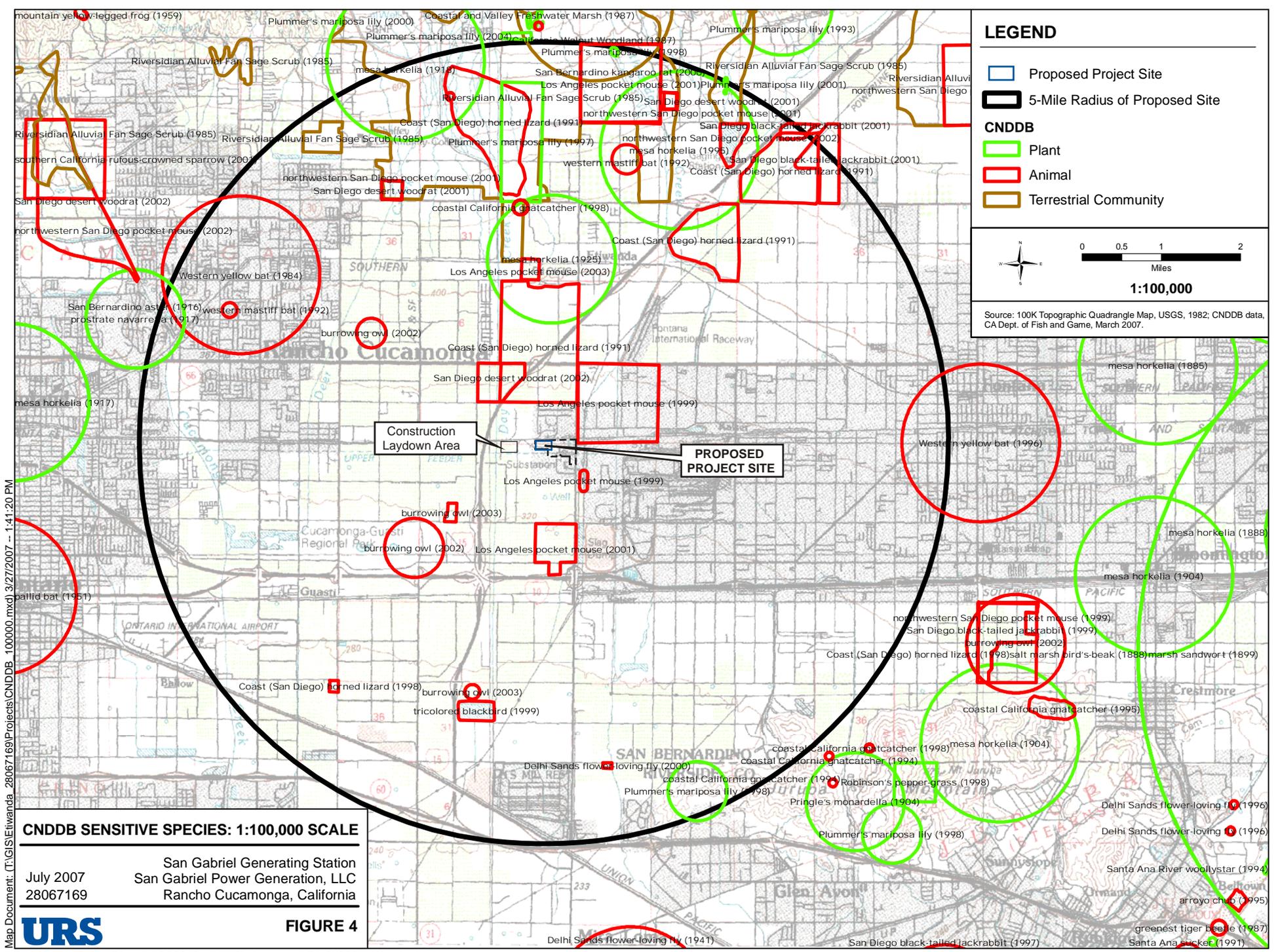
Source:
Sargent & Lundy, Alternate B Grading, Drainage and Surfacing
Drawing No. CSK-022 (Rev. 2), 04-02-2007 (csk022.dgn); AFC Figure 2.7-4B.

PROPOSED ACTION AREA MAP

San Gabriel Generating Station
San Gabriel Power Generation, LLC
Rancho Cucamonga, California



FIGURE 3



LEGEND

- Proposed Project Site
- 5-Mile Radius of Proposed Site

CNDDB

- Plant
- Animal
- Terrestrial Community

0 0.5 1 2
Miles

1:100,000

Source: 100K Topographic Quadrangle Map, USGS, 1982; CNDDB data, CA Dept. of Fish and Game, March 2007.

CNDDB SENSITIVE SPECIES: 1:100,000 SCALE

San Gabriel Generating Station
 July 2007 San Gabriel Power Generation, LLC
 28067169 Rancho Cucamonga, California

FIGURE 4

Map Document: T:\GIS\Etlwanda_28067169\Projects\CNDDB_100000.mxd 3/27/2007 -- 1:41:20 PM



Appendix A
Federally-Listed, Proposed, and Candidate Species Under USFWS Jurisdiction
with Potential to Occur in the Vicinity of the San Gabriel Generating Station

**Table A-1
Threatened and Endangered Species That May Occur
Within a 5-Mile (Minimum) Radius of the Project Area**

Scientific Name Common Name	Federal Status^a	State Status^b	Preferred Habitat	Likelihood that Species May Occur in Project Area
Insects				
Delhi Sands flower-loving fly <i>Rhaphiomidas terminatus abdominalis</i>	E		Requires fine, sandy soils with sparse vegetation; associated with deerweed, California buckwheat, and telegraph weed. Found only in Delhi sands formation in southwestern San Bernardino and northwestern Riverside Counties.	Moderate potential in sandy dune hummocks found in the northwest portion of the laydown/contractor parking area.
Mammals				
San Bernardino kangaroo rat <i>Dipodomys merriami parvus</i>	E		Prefers sandy, loam habitats typical of alluvial fans and floodplains. Associated with alluvial sage scrub and chaparral habitats.	Low potential to occur in northeastern portion of the laydown/contractor parking area.
Stephen's kangaroo rat <i>Dipomys stephensi</i>	E	T		Not likely to occur; no suitable habitat
Birds				
southwestern willow flycatcher (nesting) <i>Empidonax trailii extimus</i>	E		Nest locations found in riparian vegetation with complex structure and large patch size	Not likely to occur; no suitable habitat
coastal California gnatcatcher <i>Polioptila californica californica</i>	T		Requires at least 2 acres of contiguous California coastal sage scrub habitat to breed.	Not likely to occur; no suitable habitat
least Bell's vireo (nesting) <i>Vireo bellii pusillus</i>	E	E	Nest locations found in willow riparian scrub in conjunction with other established riparian areas	Low potential to occur in willow riparian areas
Source: Based on lists generated by the USFWS, CNDDDB, CNPS Database, and species known to occur in San Bernardino and Riverside Counties. Notes: ^a Federal and California Endangered Species Act E-Endangered T-Threatened ^b Status SC1 – United States Fish and Wildlife Service Species of Special Concern SSC – California Department of Fish and Game Species of Special Concern P, FP (Protected and Fully Protected) – Species which cannot be taken or possessed without a permit from the Fish and Game Commission and/or Department of Fish and Game HP – High Priority species are designated by the Western Bat Working Group as a species imperiled, or at high risk of imperilment				

Source: USFWS species list for San Bernardino County and CNDDDB search for eight quadrangles surrounding the action area.

Appendix B

Results of Delhi Sands Flower-Loving Fly Habitat Assessment for the San Gabriel Generating Station Project Laydown Site

April 12, 2007

Results of Delhi Sands Flower-loving Fly Habitat Assessment For the San Gabriel Generating Station Project Laydown Site (\pm 15 acres), Rancho Cucamonga, San Bernardino County, California.

Dear Mr. Kisner,

Thank you for utilizing Powell Environmental Consultants as your biological subcontractor.

This report summarizes the results of a habitat assessment for the Delhi Sands Flower-loving Fly (DSFLF), conducted by Dale Powell (TE-006559-3), on April 8, on an approximately 15-acre site. The site was located on the southeast corner of Burlington Northern and Santa Fe Railroad (Metrolink) tracks (east-west mainline) and Day Creek Channel, in the city of Rancho Cucamonga, San Bernardino County, California (UTM 110450338E, 3772192N)(Guasti, CA Quadrangle).

The Delhi Sands Flower-loving Fly (*Rhaphiomidas terminatus abdominalis*) (family Mydidae) was listed as an endangered species under the Endangered Species Act, as amended on September 23, 1993. The California Natural Diversity Data Base lists the DSFLF rank as being: GIT1S1 - Federally listed as being extremely endangered (G1); found only in California (T1); and as being extremely endangered in California (S1).

The DSFLF is considered to be endangered primarily because of the loss of its habitat, primarily due to the habitat's conversion to agricultural, residential, and industrial uses. Its historic range has been reduced by over approximately 97% (USFWS, 1993). The fly is known only to inhabit areas where Delhi series soils are located. These soils consist of fine, sandy soils, often forming wholly or partially consolidated dunes, located in an irregular 40 square mile area, in southwestern San Bernardino and northwestern Riverside Counties (Soil Conservation Service, 1980).

Fine unconsolidated soils are required for oviposition. The female fly inserts the end of her abdomen deep into the soil to lay her eggs (Rogers and Mattoni, 1993). The life history of the larval stages are unknown, however, it is presumed, that the larvae develop underground (Greg Ballmer, D. Hawks, pers. comm.). The DSFLF's adult flight period lasts approximately eleven weeks from July 1 through mid-September. The adult is approximately 1 inch long, tan to orange-brown in color, with dark brown bands and spots upon its abdomen. Its wings are hyaline. It has large green eyes and a long slender proboscis, which it has been seen to use to

feed upon nectar from California buckwheat and telegraph weed. The adults frequent open areas, usually near unconsolidated soil. The adult males patrol open areas looking for females to mate with. The females are more sedentary and perch upon plants or sit upon the ground for long periods. Adults are most often observed from 9 or 10 AM until 3 or 4 PM.

The DSFLF is frequently associated with certain plants: *Eriogonum fasciculatum* (California buckwheat), *Croton californicus* (California croton), *Ambrosia acanthicarpa* (annual bur-sage) and *Heterotheca grandiflora* (telegraph weed), sometimes called “indicator plants”. Other native plant species also occur in DSFLF habitat: *Oenothera californica* (California evening primrose), *Lotus scoparius* (deerweed), *Lessingia glandulifera* (lessinga), *Amsinckia menziesii* (rancher’s fiddleneck), *Eriastrum sapphirinum* (sapphire woolly-star), and *Eriogonum thurberi* (Thurber’s buckwheat) (USFWS, 1997).

Methods and Site Conditions:

On April 8, 2007 from 8:45 to 10:00 I examined the site described and mapped on the e-mail provided to me on April 2, 2007. The temperature was in the upper 50s and the wind speed varied from 0-5 mph. The sky was overcast.

The site was approximately 15 acres in size. It was relatively flat and was approximately 1,119 feet above sea level. The site was bordered on the east by a railroad spur line, across from which is a vacant field. The field was covered by mixture of native and non-native vegetation. To the north is an embankment with the Burlington Northern (Metrolink) main east-west mainline. Immediately south of the site is an open field which was covered with native and non-native vegetation.

The site is within the Ontario Recovery Unit for the Delhi Sands Flower-loving Fly (USFWS, 1997).

According to a soil map (U.S. Department of Agriculture, Soil Conservation Service, Soil Survey of San Bernardino County Southwestern Part, California. 1980.) all of the site is covered with Tujunga loamy sand (TuB). Based upon my field examination I concurred with the soil map. The majority of the site consisted of exposed soil. Most of the area surrounding the site were covered with large expanses of exposed soil.

The site has been highly disturbed. There were numerous sand roads made by off road vehicles throughout the site. At one time the site was apparently part of a vineyard.

Plant species found on the site include: *Ambrosia acanthicarpa* (Annual bur-sage); *Hirschfeldia incana* (Short Pod Mustard); *Eriogonum fasciculatum* (California buckwheat); *Croton californicus* (California croton); *Lotus scoparius* (deerweed); *Amsinckia menziesii* (rancher's fiddleneck); *Marrubium vulgare* (White Horehound); *Vitis vinifera* (Wine Grape); *Avena fatua* (Wild Oat); *Bromus* sp. (Brome) and a number of other unidentified grasses. There were small stands of pepper trees (*Schinus* sp.) in the northern area and willow (*Salix* sp.) trees in the eastern half of the site. *Arundo donax* (Giant Reed) was also found in the eastern area of the site.

Results and Conclusion:

The site contains significant areas of exposed soils. Three of the four “indicator” plant species were present on the site - *Eriogonum fasciculatum* (California buckwheat), *Croton californicus* (California croton), and *Ambrosia acanthicarpa* (annual bur-sage). The site is within of the Ontario Recovery Unit of the Delhi Sands Flower-loving Fly (USFWS, 1997). A focused survey for the Delhi Sands Flower-loving Fly is recommended, because the site meets the requirements for a survey to be conducted, as set forth by the US Fish and Wildlife guidelines.

Sincerely,
Dale A. Powell, Ph.D.
Consulting Biologist

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Appendix B3
USACE letters dated May 15, 2007 and June 20, 2007

Correspondence dated May 15, 2007 from Gerardo Salas, U.S. Army Corps of Engineers, to San Gabriel Power Generation, LLC

Correspondence dated June 20, 2007 from Gerardo Salas, U.S. Army Corps of Engineers, to Anne Connell, URS Corporation



DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
P.O. BOX 532711
LOS ANGELES, CALIFORNIA 90053-2325

REPLY TO
ATTENTION OF:

May 15, 2007

Office of the Chief
Regulatory Division

San Gabriel Power Generation, LLC
8996 Etiwanda Avenue
Rancho Cucamonga, California 91739

To Whom It May Concern :

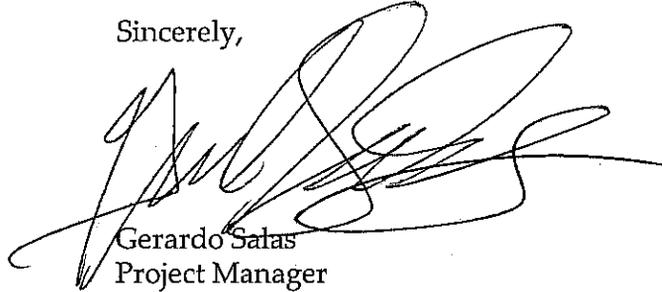
It has come to our attention that San Gabriel Power Generation, LLC plans to discharge dredge and/or fill materials into waters of the United States, in association with the proposal to construct and operate the San Gabriel Generation Station Project, in the City of Rancho Cucamonga, San Bernardino County, California. This activity may require a U.S. Army Corps of Engineers permit.

A Corps of Engineers permit is required for the discharge of dredged or fill material into, including any redeposit of dredged material within, "waters of the United States" and adjacent wetlands pursuant to Section 404 of the Clean Water Act of 1972. Examples include, but are not limited to,

1. creating fills for residential or commercial development, placing bank protection, temporary or permanent stockpiling of excavated material, building road crossings, backfilling for utility line crossings and constructing outfall structures, dams, levees, groins, weirs, or other structures;
2. mechanized landclearing, grading which involves filling low areas or land leveling, ditching, channelizing and other excavation activities that would have the effect of destroying or degrading waters of the United States;
3. allowing runoff or overflow from a contained land or water disposal area to re-enter a water of the United States;
4. placing pilings when such placement has or would have the effect of a discharge of fill material.

Enclosed you will find a permit application form and a pamphlet that describes our regulatory program. If you have any questions, please contact Shannon Pankratz at (213) 452-3412. Please refer to this letter and SPL-2007-553-SLP in your reply.

Sincerely,

A handwritten signature in black ink, appearing to read 'Gerardo Salas', written over a large, stylized scribble.

Gerardo Salas
Project Manager
South Coast Branch
Regulatory Division

Enclosures

**APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT
(33 CFR 325)**

OMB APPROVAL NO. 0710-003

Public reporting burden for this collection of information is estimated to average 5 hours per response, including the time for reviewing instructions, Searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Service Directorate of Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington VA 22202-4302; and to the Office of Management and Budget, Paperwork Reduction Project (0710-003), Washington, DC 20503. Please DO NOT RETURN your form to either of those addresses. Completed applications must be submitted to the District Engineer having jurisdiction over the location of the proposed activity.

PRIVACY ACT STATEMENT

Authority: 33 USC 401, Section 10; 1413, Section 404. Principal Purpose: These laws require permits authorizing activities in, or affecting, navigable waters of the United States; the discharge of dredged or fill material into waters of the United States, and the transportation of dredged material for the purpose of dumping it into ocean waters. Routine uses: Information provided on this form will be used in evaluating the application for a permit. Disclosure: Disclosure of requested information is voluntary. If information is not provided, however, the permit application cannot be processed nor can a permit be issued.

One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see sample drawings and instructions) and be submitted to the District Engineer having jurisdiction over the proposed activity. An application that is not completed in full will be returned.

(ITEMS 1 THRU 4 TO BE FILLED BY THE CORPS)

1. APPLICATION NO.	2. FIELD OFFICE CODE	3. DATE RECEIVED	4. DATE APPLICATION COMPLETED
--------------------	----------------------	------------------	-------------------------------

(ITEMS BELOW TO BE FILLED BY APPLICANT)

5. APPLICANT'S NAME	8. AUTHORIZED AGENT'S NAME & TITLE (an agent is not required)
6. APPLICANT'S ADDRESS	9. AGENT'S ADDRESS
7. APPLICANT'S PHONE NUMBERS WITH AREA CODE a. Residence b. Business	10. AGENT'S PHONE NUMBERS WITH AREA CODE a. Residence b. Business

11. STATEMENT OF AUTHORIZATION

I hereby authorize _____ to act in my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this permit application.

APPLICANT'S SIGNATURE

DATE

NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY

12. PROJECT NAME OR TITLE (see instructions)	
13. NAME OF WATERBODY, IF KNOWN (if applicable)	14. PROJECT STREET ADDRESS (if applicable)
15. LOCATION OF PROJECT COUNTY STATE	
16. OTHER LOCATION DESCRIPTIONS, IF KNOWN (see instructions)	
17. DIRECTIONS TO THE SITE	

18. NATURE OF ACTIVITY (Description of project, include all features)

19. PROJECT PURPOSE (Describe the reason or purpose of the project, see instructions)

USE BLOCKS 20-22 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED

20. REASON(S) FOR DISCHARGE

21. TYPE(S) OF MATERIAL BEING DISCHARGED AND THE AMOUNT OF EACH TYPE IN CUBIC YARDS

22. SURFACE AREA IN ACRES OF WETLANDS OR OTHER WATERS FILLED (see instructions)

23. IS ANY PORTION OF THE WORK ALREADY COMPLETE? YES NO IF YES, DESCRIBE THE WORK

24. ADDRESSES OF ADJOINING PROPERTY OWNERS, LESSEES, ETC. WHOSE PROPERTY ADJOINS THE WATERBODY (If more than can be entered here, please attach a supplemental list)

25. LIST OF OTHER CERTIFICATIONS OR APPROVALS/DENIALS RECEIVED FROM OTHER FEDERAL, STATE, OR LOCAL AGENCIES FOR WORK DESCRIBED IN THIS APPLICATION

AGENCY	TYPE APPROVAL*	IDENTIFICATION NUMBER	DATE APPLIED	DATE APPROVED	DATE DENIED

* Would include but is not restricted to zoning, building and flood plain permits.

26. Application is hereby made for a permit or permits to authorize the work described in this application. I certify that the information in this application is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

SIGNATURE OF APPLICANT DATE SIGNATURE OF AGENT DATE

The application must be signed by the person who desires to undertake the proposed activity (applicant) or it may be signed by a duly authorized agent if the statement in block 11 has been filled out and signed.
18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious, or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.

Instructions For Preparing A Department of the Army Permit Application

Blocks 1 thru 4 - To be completed by Corps of Engineers.

Block 5 - APPLICANT'S NAME. Enter the name of the responsible party or parties. If the responsible party is an agency, company, corporation, or other organization, indicate the responsible officer and title. If more than one party is associated with the application, please attach a sheet with the necessary information marked "Block 5".

Block 6 - ADDRESS OF APPLICANT. Please provide the full address of the party or parties responsible for the application. If more space is needed, attach an extra sheet of paper marked "Block 6".

Block 7 - APPLICANT PHONE NUMBERS. Please provide the number where you can usually be reached during normal business hours.

Block 8 - AUTHORIZED AGENT'S NAME AND TITLE. Indicate name of individual or agency, designated by you, to represent you in this process. An agent can be an attorney, builder, contractor, engineer or any other person or organization. Note: An agent is not required.

Blocks 9 and 10 - AGENT'S ADDRESS AND TELEPHONE NUMBER. Please provide the complete mailing address of the agent, along with the telephone number where he/she can be reached during normal business hours.

Block 11 - STATEMENT OF AUTHORIZATION. To be completed by applicant if an agent is to be employed.

Block 12 - PROPOSED PROJECT NAME OR TITLE. Please provide name identifying the proposed project (i.e., Landmark Plaza, Burned Hills Subdivision, or Edsall Commercial Center).

Block 13 - NAME OF WATERBODY. Please provide the name of any stream, lake, marsh, or other waterway to be directly impacted by the activity. If it is a minor (no name) stream, identify the waterbody the minor stream enters.

Block 14 - PROPOSED PROJECT STREET ADDRESS. If the proposed project is located at a site having a street address (not a box number), please enter it here.

Block 15 - LOCATION OF PROPOSED PROJECT. Enter the county and state where the proposed project is located. If more space is required, please attach a sheet with the necessary information marked "Block 15".

Block 16 - OTHER LOCATION DESCRIPTIONS. If available, provide the Section, Township, and Range of the site and/or the latitude and longitude. You may also provide a description of the proposed project location, such as lot numbers or tract numbers. You may choose to locate the proposed project site from a known point (such as the right descending bank of Smith Creek, one mile down from the Highway 14 Bridge). If a large river or stream, include the river mile of the proposed project site, if known.

Block 17 - DIRECTIONS TO THE SITE. Provide directions to the site from a known location or landmark. Include highway and street numbers as well as names. Also provide distances from known locations and any other information that would assist in locating the site.

Block 18 - NATURE OF ACTIVITY. Describe the overall activity or project. Give approximate dimensions of structures such as wingwalls, dikes, (identify the materials to be used in construction, as well as the methods by which the work is to be done), or excavations (length, width, and height). Indicate whether discharge of dredged or fill material is involved. Also, identify any structure to be constructed on a fill, piles, or float-supported platforms.

The written descriptions and illustrations are an important part of the application. Please describe, in detail, what you wish to do. If more space is needed, attach an extra sheet of paper marked "Block 18".

Block 19 - PROPOSED PROJECT PURPOSE. Describe the purpose and need for the proposed project. What will it be used for and why? Also include a brief description of any related activities to be developed as the result of the proposed project. Give the approximate dates you plan to both begin and complete all work.

Block 20 - REASONS FOR DISCHARGE. If the activity involves the discharge of dredged and/or fill material into a wetland or other waterbody, including the temporary placement of material, explain the specific purpose of the placement of the material (such as erosion control).

Instructions For Preparing A Department of the Army Permit Application

Block 21 - TYPES OF MATERIAL BEING DISCHARGED AND THE AMOUNT OF EACH TYPE IN CUBIC YARDS.

Describe the material to be discharged and amount of each material to be discharged within Corps jurisdiction. Please be sure this description will agree with your illustrations. Discharge material includes: rock, sand, clay, concrete, etc.

Block 22 - SURFACE AREAS OF WETLANDS OR OTHER WATERS FILLED. Describe the area to be filled at each location. Specifically identify the surface areas, or part thereof, to be filled. Also include the means by which the discharge is to be done (backhoe, dragline, etc.). If dredged material is to be discharged on an upland site, identify the site and the steps to be taken (if necessary) to prevent runoff from the dredged material back into a waterbody. If more space is needed, attach an extra sheet of paper marked "Block 22".

Block 23 - IS ANY PORTION OF THE WORK ALREADY COMPLETE? Provide any background on any part of the proposed project already completed. Describe the area already developed, structures completed, any dredged or fill material already discharged, the type of material, volume in cubic yards, acres filled, if a wetland or other waterbody (in acres or square feet). If the work was done under an existing Corps permit, identify the authorization if possible.

Block 24 - NAMES AND ADDRESSES OF ADJOINING PROPERTY OWNERS, LESSEES, etc., WHOSE PROPERTY ADJOINS THE PROJECT SITE. List complete names and full mailing addresses of the adjacent property owners (public and private) lessees, etc., whose property adjoins the waterbody or aquatic site where the work is being proposed so that they may be notified of the proposed activity (usually by public notice). If more space is needed, attach an extra sheet of paper marked "Block 24".

Block 25 - INFORMATION ABOUT APPROVALS OR DENIALS BY OTHER AGENCIES. You may need the approval of other Federal, State, or Local agencies for your project. Identify any applications you have submitted and the status, if any (approved or denied) of each application. You need not have obtained all other permits before applying for a Corps permit.

Block 26 - SIGNATURE OF APPLICANT OR AGENT. The application must be signed by the owner or other authorized party (agent). This signature shall be an affirmation that the party applying for the permit possesses the requisite property rights to undertake the activity applied for (including compliance with special conditions, mitigation, etc.).

DRAWINGS AND ILLUSTRATIONS - GENERAL INFORMATION

Three types of illustrations are needed to properly depict the work to be undertaken. These illustrations or drawings are identified as a Vicinity Map, a Plan View, or a Typical Cross-Section Map. Identify each illustration with a figure or attachment number.

Please submit one original, or good quality copy, of all drawings on an 8.5 X 11 inch plain white paper (tracing paper or film may be substituted). Use the fewest number of sheets necessary for your drawings or illustrations.

Each illustration should identify the project, the applicant, and the type of illustration (vicinity map, plan view, or cross-section). While illustrations need not be professional (many small, private project illustrations are prepared by hand), they should be clear, accurate and contain all necessary information.



DEPARTMENT OF THE ARMY
LOS ANGELES DISTRICT, CORPS OF ENGINEERS
P.O. BOX 532711
LOS ANGELES, CALIFORNIA 90053-2325

rev'd 6-25-07
(also enclosure)

REPLY TO
ATTENTION OF:

June 20, 2007

Office of the Chief
Regulatory Division

URS Corporation
Attention: Anne Connell
221 Main Street, Suite 600
San Francisco, California 94105

Dear Ms. Connell:

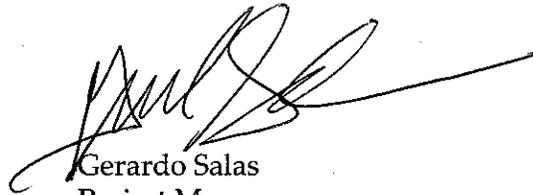
It has come to our attention that you plan to discharge dredge and/or fill material into waters of the United States, in association with your proposal of the San Gabriel Generating Station Project, in the City of Rancho Cucamonga, San Bernardino County, California. This activity may require a U.S. Army Corps of Engineers permit.

A Corps of Engineers permit is required for the discharge of dredged or fill material into, including any redeposit of dredged material within, "waters of the United States" and adjacent wetlands pursuant to Section 404 of the Clean Water Act of 1972. Examples include, but are not limited to,

1. creating fills for residential or commercial development, placing bank protection, temporary or permanent stockpiling of excavated material, building road crossings, backfilling for utility line crossings and constructing outfall structures, dams, levees, groins, weirs, or other structures;
2. mechanized landclearing, grading which involves filling low areas or land leveling, ditching, channelizing and other excavation activities that would have the effect of destroying or degrading waters of the United States;
3. allowing runoff or overflow from a contained land or water disposal area to re-enter a water of the United States;
4. placing pilings when such placement has or would have the effect of a discharge of fill material.

Enclosed you will find a permit application form and a pamphlet that describes our regulatory program. If you have any questions, please contact Shannon Pankratz at (213) 452-3412. Please refer to this letter and SPL-2007-733-SLP in your reply.

Sincerely,

A handwritten signature in black ink, appearing to read "Gerardo Salas", with a long horizontal flourish extending to the right.

Gerardo Salas
Project Manager
South Coast Branch
Regulatory Division

Enclosures

**Appendix C
Groundwater**

Appendix C1	1978 Chino Basin Judgment
Appendix C2	Chino Basin Water Master's Twenty-Eighth Annual Report
Appendix C3	Relocation of West Well

Appendix C1
1978 Chino Basin Judgment

*Exec. J. Stark
Jan 27, 1978
td*

FILED

JAN 30 AM 11 41

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11 Attorneys for Plaintiff

FILED - West District
San Bernardino County Clerk

OCT 25 1989

Caru Gemino

SUPERIOR COURT OF THE STATE OF CALIFORNIA

FOR THE COUNTY OF SAN BERNARDINO

MICROFILMED

12 CHINO BASIN MUNICIPAL WATER)
13 DISTRICT,)
14 Plaintiff,)
15 v.)
16 CITY OF CHINO, et al.)
17 Defendants.)

No. 164327

REN 51010

JUDGMENT

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Routing
Note
Index
Asst. Co. Clerk
Secretary
Supervisor
Exhibits

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28

X

JUDGMENT
TABLE OF CONTENTS

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28

Page

I.	INTRODUCTION	1
	1. Pleadings, Parties and Jurisdiction . . .	1
	2. Stipulation for Judgment	2
	3. Trial; Findings and Conclusions	2
	4. Definitions	2
	5. Exhibits	5
II.	DECLARATION OF RIGHTS	6
	A. HYDROLOGY	6
	6. Safe Yield	6
	7. Overdraft and Prescriptive Circumstances .	6
	B. WATER RIGHTS IN SAFE YIELD	6
	8. Overlying Rights	6
	9. Appropriative Rights	7
	10. Rights of the State of California	8
	C. RIGHTS TO AVAILABLE GROUND WATER STORAGE CAPACITY	8
	11. Available Ground Water Storage Capacity. .	8
	12. Utilization of Available Ground Water	
	Capacity	8
III.	INJUNCTION	9
	13. Injunction Against Unauthorized Production	
	of Basin Water	9
	14. Injunction Against Unauthorized Storage or	
	Withdrawal of Stored Water	10
IV.	CONTINUING JURISDICTION	10
	15. Continuing Jurisdiction	10
V.	WATERMASTER	12

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	<u>Page</u>
1	
2	A. APPOINTMENT 12
3	16. Watermaster Appointment 12
4	B. POWERS AND DUTIES 12
5	17. Powers and Duties 12
6	18. Rules and Regulations 12
7	19. Acquisition of Facilities 13
8	20. Employment of Experts and Agents 13
9	21. Measuring Devices 13
10	22. Assessments 14
11	23. Investment of Funds 14
12	24. Borrowing 14
13	25. Contracts 14
14	26. Cooperation With Other Agencies 14
15	27. Studies 14
16	28. Ground Water Storage Agreements 15
17	29. Accounting for Stored Water 15
18	30. Annual Administrative Budget. 15
19	31. Review Procedures 16
20	C. ADVISORY AND POOL COMMITTEES 17
21	32. Authorization 17
22	33. Term and Vacancies 18
23	34. Voting Power 18
24	35. Quorum 18
25	36. Compensation 19
26	37. Organization 19
27	38. Powers and Functions 21
28	VI. PHYSICAL SOLUTION 23

	<u>Page</u>
1	
2	A. GENERAL 23
3	39. Purpose and Objective 23
4	40. Need for Flexibility 23
5	41. Watermaster Control 23
6	42. General Pattern of Operations 24
7	B. POOLING 24
8	43. Multiple Pools Established 24
9	44. Determination and Allocation of Rights to
10	Safe Yield of Chino Basin 25
11	45. Annual Replenishment 25
12	46. Initial Pooling Plans 26
13	C. REPORTS AND ACCOUNTING 26
14	47. Production Reports 26
15	48. Watermaster Reports and Accounting 26
16	D. REPLENISHMENT 27
17	49. Sources of Supplemental Water 27
18	50. Methods of Replenishment 28
19	E. REVENUES 28
20	51. Production Assessment 28
21	52. Minimal Producers 28
22	53. Assessment Proceeds -- Purposes 28
23	54. Administrative Expenses 29
24	55. Assessments -- Procedure 29
25	56. Accumulation of Replenishment Water
26	Assessment Proceeds 30
27	57. Effective Date 30
28	VII. MISCELLANEOUS PROVISIONS 31

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	<u>Page</u>
1	
2	58. Designation of Address for Notice and
3	Service 31
4	59. Service of Documents 31
5	60. Intervention After Judgment 32
6	61. Loss of Rights 32
7	62. Scope of Judgment 32
8	63. Judgment Binding on Successors 32
9	64. Costs 33
10	EXHIBIT "A" -- Location Map of Chino Basin 34
11	EXHIBIT "B" -- Hydrologic Map of Chino Basin 35
12	EXHIBIT "C" -- Parties With Overlying Agricultural Rights 36
13	EXHIBIT "D" -- Parties With Overlying Non-Agricultural
14	Rights 60
15	EXHIBIT "E" -- Appropriative Rights 61
16	EXHIBIT "F" -- Overlying Agricultural Pooling Plan . . . 62
17	EXHIBIT "G" -- Overlying Non-Agricultural Pooling Plan . 65
18	EXHIBIT "H" -- Appropriative Pooling Plan 68
19	EXHIBIT "I" -- Engineering Appendix 79
20	EXHIBIT "J" -- Map of In Lieu Area No. 1 82
21	EXHIBIT "K" -- Legal Description of Chino Basin 83
22	
23	
24	
25	
26	
27	
28	

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8
9 SUPERIOR COURT OF THE STATE OF CALIFORNIA
10 FOR THE COUNTY OF SAN BERNARDINO

11
12 CHINO BASIN MUNICIPAL WATER)
DISTRICT,)
13)
Plaintiff,) No. 164327
14)
v.) JUDGMENT
15)
CITY OF CHINO, et al.)
16)
Defendants.)
17)

18
19 I. INTRODUCTION

20 1. Pleadings, Parties and Jurisdiction. The complaint here-
21 in was filed on January 2, 1975, seeking an adjudication of water
22 rights, injunctive relief and the imposition of a physical solu-
23 tion. A first amended complaint was filed on July 16, 1976. The
24 defaults of certain defendants have been entered, and certain
25 other defendants dismissed. Other than defendants who have been
26 dismissed or whose defaults have been entered, all defendants have
27 appeared herein. By answers and order of this Court, the issues
28 have been made those of a full inter se adjudication between the

1 parties. This Court has jurisdiction of the subject matter of
2 this action and of the parties herein.

3 2. Stipulation For Judgment. Stipulation for entry of
4 judgment has been filed by and on behalf of a majority of the
5 parties, representing a majority of the quantitative rights herein
6 adjudicated.

7 3. Trial; Findings and Conclusions. Trial was commenced on
8 December 16, 1977, as to the non-stipulating parties, and findings
9 of fact and conclusions of law have been entered disposing of the
10 issues in the case.

11 4. Definitions. As used in this Judgment, the following
12 terms shall have the meanings herein set forth:

13 (a) Active Parties. All parties other than those who
14 have filed with Watermaster a written waiver of service of
15 notices, pursuant to Paragraph 58.

16 (b) Annual or Year -- A fiscal year, July 1 through
17 June 30, following, unless the context shall clearly indicate
18 a contrary meaning.

19 (c) Appropriative Right -- The annual production right
20 of a producer from the Chino Basin other than pursuant to an
21 overlying right.

22 (d) Basin Water -- Ground water within Chino Basin which
23 is part of the Safe Yield, Operating Safe Yield, or replen-
24 ishment water in the Basin as a result of operations under the
25 Physical Solution decreed herein. Said term does not include
26 Stored Water.

27 (e) CBMWD -- Plaintiff Chino Basin Municipal Water
28 District.

1 (f) Chino Basin or Basin -- The ground water basin
2 underlying the area shown as such on Exhibit "B" and within
3 the boundaries described in Exhibit "K".

4 (g) Chino Basin Watershed -- The surface drainage area
5 tributary to and overlying Chino Basin.

6 (h) Ground Water -- Water beneath the surface of the
7 ground and within the zone of saturation, i.e., below the
8 existing water table.

9 (i) Ground Water Basin -- An area underlain by one or
10 more permeable formations capable of furnishing substantial
11 water storage.

12 (j) Minimal Producer -- Any producer whose production
13 does not exceed five acre-feet per year.

14 (k) MWD -- The Metropolitan Water District of Southern
15 California.

16 (l) Operating Safe Yield -- The annual amount of ground
17 water which Watermaster shall determine, pursuant to criteria
18 specified in Exhibit "I", can be produced from Chino Basin by
19 the Appropriative Pool parties free of replenishment obliga-
20 tion under the Physical Solution herein.

21 (m) Overdraft -- A condition wherein the total annual
22 production from the Basin exceeds the Safe Yield thereof.

23 (n) Overlying Right -- The appurtenant right of an owner
24 of lands overlying Chino Basin to produce water from the Basin
25 for overlying beneficial use on such lands.

26 (o) Person. Any individual, partnership, association,
27 corporation, governmental entity or agency, or other organ-
28 ization.

1 (p) PVMWD -- Defendant Pomona Valley Municipal Water
2 District.

3 (q) Produce or Produced -- To pump or extract ground
4 water from Chino Basin.

5 (r) Producer -- Any person who produces water from Chino
6 Basin.

7 (s) Production -- Annual quantity, stated in acre feet,
8 of water produced.

9 (t) Public Hearing -- A hearing after notice to all
10 parties and to any other person legally entitled to notice.

11 (u) Reclaimed Water -- Water which, as a result of
12 processing of waste water, is suitable for a controlled use.

13 (v) Replenishment Water -- Supplemental water used to
14 recharge the Basin pursuant to the Physical Solution, either
15 directly by percolating the water into the Basin or indirectly
16 by delivering the water for use in lieu of production and use
17 of safe yield or Operating Safe Yield.

18 (w) Responsible Party -- The owner, co-owner, lessee or
19 other person designated by multiple parties interested in a
20 well as the person responsible for purposes of filing reports
21 hereunder.

22 (x) Safe Yield -- The long-term average annual quantity
23 of ground water (excluding replenishment or stored water but
24 including return flow to the Basin from use of replenishment
25 or stored water) which can be produced from the Basin under
26 cultural conditions of a particular year without causing an
27 undesirable result.

28 (y) SBVMWD -- San Bernardino Valley Municipal Water

1 District.

2 (z) State Water -- Supplemental Water imported through
3 the State Water Resources Development System, pursuant to
4 Chapter 8, Division 6, Part 6 of the Water Code.

5 (aa) Stored Water -- Supplemental water held in storage,
6 as a result of direct spreading, in lieu delivery, or other-
7 wise, for subsequent withdrawal and use pursuant to agreement
8 with Watermaster.

9 (bb) Supplemental Water -- Includes both water imported
10 to Chino Basin from outside Chino Basin Watershed, and re-
11 claimed water.

12 (cc) WMWD -- Defendant Western Municipal Water District
13 of Riverside County.

14 5. List of Exhibits. The following exhibits are attached to
15 this Judgment and made a part hereof:

16 "A" -- "Location Map of Chino Basin" showing boundaries
17 of Chino Basin Municipal Water District, and other geographic
18 and political features.

19 "B" -- "Hydrologic Map of Chino Basin" showing hydrologic
20 features of Chino Basin.

21 "C" -- Table Showing Parties in Overlying (Agricultural)
22 Pool.

23 "D" -- Table Showing Parties in Overlying (Non-
24 agricultural Pool and Their Rights.

25 "E" -- Table Showing Appropriators and Their Rights.

26 "F" -- Overlying (Agricultural) Pool Pooling Plan.

27 "G" -- Overlying (Non-agricultural) Pool Pooling Plan.

28 "H" -- Appropriative Pool Pooling Plan.

1 "I" -- Engineering Appendix.

2 "J" -- Map of In Lieu Area No. 1.

3 "K" -- Legal Description of Chino Basin.

4
5 II. DECLARATION OF RIGHTS

6 A. HYDROLOGY

7 6. Safe Yield. The Safe Yield of Chino Basin is 140,000 acre
8 feet per year.

9 7. Overdraft and Prescriptive Circumstances. In each year
10 for a period in excess of five years prior to filing of the First
11 Amended Complaint herein, the Safe Yield of the Basin has been
12 exceeded by the annual production therefrom, and Chino Basin is and
13 has been for more than five years in a continuous state of over-
14 draft. The production constituting said overdraft has been open,
15 notorious, continuous, adverse, hostile and under claim of right.
16 The circumstances of said overdraft have given notice to all
17 parties of the adverse nature of such aggregate over-production.

18 B. WATER RIGHTS IN SAFE YIELD

19 8. Overlying Rights. The parties listed in Exhibits "C" and
20 "D" are the owners or in possession of lands which overlie Chino
21 Basin. As such, said parties have exercised overlying water
22 rights in Chino Basin. All overlying rights owned or exercised by
23 parties listed in Exhibits "C" and "D" have, in the aggregate, been
24 limited by prescription except to the extent such rights have been
25 preserved by self-help by said parties. Aggregate preserved
26 overlying rights in the Safe Yield for agricultural pool use,
27 including the rights of the State of California, total 82,800 acre
28 feet per year. Overlying rights for non-agricultural pool use

1 total 7,366 acre feet per year and are individually decreed for
2 each affected party in Exhibit "D". No portion of the Safe Yield
3 of Chino Basin exists to satisfy unexercised overlying rights, and
4 such rights have all been lost by prescription. However, uses may
5 be made of Basin Water on overlying lands which have no preserved
6 overlying rights pursuant to the Physical Solution herein. All
7 overlying rights are appurtenant to the land and cannot be assigned
8 or conveyed separate or apart therefrom.

9 9. Appropriative Rights. The parties listed in Exhibit "E"
10 are the owners of appropriative rights, including rights by pres-
11 cription, in the unadjusted amounts therein set forth, and by
12 reason thereof are entitled under the Physical Solution to share in
13 the remaining Safe Yield, after satisfaction of overlying rights
14 and rights of the State of California, and in the Operating Safe
15 Yield in Chino Basin, in the annual shares set forth in Exhibit
16 "E".

17 (a) Loss of Priorities. By reason of the long continued
18 overdraft in Chino Basin, and in light of the complexity of
19 determining appropriative priorities and the need for con-
20 serving and making maximum beneficial use of the water re-
21 sources of the State, each and all of the parties listed in
22 Exhibit "E" are estopped and barred from asserting special
23 priorities or preferences, inter se. All of said appropri-
24 ative rights are accordingly deemed and considered of equal
25 priority.

26 (b) Nature and Quantity. All rights listed in Exhibit
27 "E" are appropriative and prescriptive in nature. By reason
28 of the status of the parties, and the provisions of Section

1 1007 of the Civil Code, said rights are immune from reduction
2 or limitation by prescription.

3 10. Rights of the State of California. The State of
4 California, by and through its Department of Corrections, Youth
5 Authority and Department of Fish and Game, is a significant pro-
6 ducer of ground water from and the State is the largest owner of
7 land overlying Chino Basin. The precise nature and scope of the
8 claims and rights of the State need not be, and are not, defined
9 herein. The State, through said departments, has accepted the
10 Physical Solution herein decreed, in the interests of implementing
11 the mandate of Section 2 of Article X of the California Constitu-
12 tion. For all purposes of this Judgment, all future production by
13 the State or its departments or agencies for overlying use on
14 State-owned lands shall be considered as agricultural pool use.

15 C. RIGHTS TO AVAILABLE GROUND WATER STORAGE CAPACITY

16 11. Available Ground Water Storage Capacity. There exists in
17 Chino Basin a substantial amount of available ground water storage
18 capacity which is not utilized for storage or regulation of Basin
19 Waters. Said reservoir capacity can appropriately be utilized for
20 storage and conjunctive use of supplemental water with Basin
21 Waters. It is essential that said reservoir capacity utilization
22 for storage and conjunctive use of supplemental water be undertaken
23 only under Watermaster control and regulation, in order to protect
24 the integrity of both such Stored Water and Basin Water in storage
25 and the Safe Yield of Chino Basin.

26 12. Utilization of Available Ground Water Capacity. Any
27 person or public entity, whether a party to this action or not, may
28 make reasonable beneficial use of the available ground water

1 storage capacity of Chino Basin for storage of supplemental water;
2 provided that no such use shall be made except pursuant to written
3 agreement with Watermaster, as authorized by Paragraph 28. In the
4 allocation of such storage capacity, the needs and requirements of
5 lands overlying Chino Basin and the owners of rights in the Safe
6 Yield or Operating Safe Yield of the Basin shall have priority and
7 preference over storage for export.

8
9 III. INJUNCTION

10 13. Injunction Against Unauthorized Production of Basin
11 Water. Each party in each of the respective pools is enjoined, as
12 follows:

13 (a) Overlying (Agricultural) Pool. Each party in the
14 Overlying (Agricultural) Pool, its officers, agents, employees,
15 successors and assigns, is and they each are ENJOINED AND
16 RESTRAINED from producing ground water from Chino Basin in any
17 year hereafter in excess of such party's correlative share of
18 the aggregate of 82,800 acre feet allocated to said Pool,
19 except pursuant to the Physical Solution or a storage water
20 agreement.

21 (b) Overlying (Non-Agricultural) Pool. Each party in
22 the Overlying (Non-agricultural) Pool, its officers, agents,
23 employees, successors and assigns, is and they each are
24 ENJOINED AND RESTRAINED from producing ground water of Chino
25 Basin in any year hereafter in excess of such party's decreed
26 rights in the Safe Yield, except pursuant to the provisions of
27 the Physical Solution or a storage water agreement.

28 (c) Appropriative Pool. Each party in the

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IRVINE, CALIFORNIA 92715
(714) 752-8871

1 (c) The determination of specific quantitative rights
2 and shares in the declared Safe Yield or Operating Safe Yield
3 herein declared in Exhibits "D" and "E"; and

4 (d) The amendment or modification of Paragraphs 7(a) and
5 (b) of Exhibit "H", during the first ten (10) years of oper-
6 ation of the Physical Solution, and thereafter only upon
7 affirmative recommendation of at least 67% of the voting power
8 (determined pursuant to the formula described in Paragraph 3
9 of Exhibit "H"), but not less than one-third of the members
10 of the Appropriative Pool Committee representatives of parties
11 who produce water within CBMWD or WMWD; after said tenth year
12 the formula set forth in said Paragraph 7(a) and 7(b) of
13 Exhibit "H" for payment of the costs of replenishment water
14 may be changed to 100% gross or net, or any percentage split
15 thereof, but only in response to recommendation to the Court
16 by affirmative vote of at least 67% of said voting power of
17 the Appropriative Pool representatives of parties who produce
18 ground water within CBMWD or WMWD, but not less than one-third
19 of their number. In such event, the Court shall act in con-
20 formance with such recommendation unless there are compelling
21 reasons to the contrary; and provided, further, that the fact
22 that the allocation of Safe Yield or Operating Safe Yield
23 shares may be rendered moot by a recommended change in the
24 formula for replenishment assessments shall not be deemed to
25 be such a "compelling reason."

26 Said continuing jurisdiction is provided for the purpose of en-
27 abling the Court, upon application of any party, the Watermaster,
28 the Advisory Committee or any Pool Committee, by motion and, upon

1 at least 30 days' notice thereof, and after hearing thereon, to
2 make such further or supplemental orders or directions as may be
3 necessary or appropriate for interpretation, enforcement or carry-
4 ing out of this Judgment, and to modify, amend or amplify any of
5 the provisions of this Judgment.

6
7 V. WATERMASTER

8 A. APPOINTMENT

9 16. Watermaster Appointment. CBMWD, acting by and through a
10 majority of its board of directors, is hereby appointed Water-
11 master, to administer and enforce the provisions of this Judgment
12 and any subsequent instructions or orders of the Court hereunder.
13 The term of appointment of Watermaster shall be for five (5) years.
14 The Court will by subsequent orders provide for successive terms or
15 for a successor Watermaster. Watermaster may be changed at any
16 time by subsequent order of the Court, on its own motion, or on the
17 motion of any party after notice and hearing. Unless there are
18 compelling reasons to the contrary, the Court shall act in con-
19 formance with a motion requesting the Watermaster be changed if
20 such motion is supported by a majority of the voting power of the
21 Advisory Committee.

22 B. POWERS AND DUTIES

23 17. Powers and Duties. Subject to the continuing supervision
24 and control of the Court, Watermaster shall have and may exercise
25 the express powers, and shall perform the duties, as provided in
26 this Judgment or hereafter ordered or authorized by the Court in
27 the exercise of the Court's continuing jurisdiction.

28 18. Rules and Regulations. Upon recommendation by the

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1 Advisory Committee, Watermaster shall make and adopt, after public
2 hearing, appropriate rules and regulations for conduct of Water-
3 master affairs, including meeting schedules and procedures, and
4 compensation of members of Watermaster at not to exceed \$25 per
5 member per meeting, or \$300 per member per year, whichever is less,
6 plus reasonable expenses related to activities within the Basin.
7 Thereafter, Watermaster may amend said rules from time to time upon
8 recommendation, or with approval of the Advisory Committee after
9 hearing noticed to all active parties. A copy of said rules and
10 regulations, and of any amendments thereof, shall be mailed to each
11 active party.

12 19. Acquisition of Facilities. Watermaster may purchase,
13 lease, acquire and hold all necessary facilities and equipment;
14 provided, that it is not the intent of the Court that Watermaster
15 acquire any interest in real property or substantial capital
16 assets.

17 20. Employment of Experts and Agents. Watermaster may
18 employ or retain such administrative, engineering, geologic,
19 accounting, legal or other specialized personnel and consultants as
20 may be deemed appropriate in the carrying out of its powers and
21 shall require appropriate bonds from all officers and employees
22 handling Watermaster funds. Watermaster shall maintain records for
23 purposes of allocation of costs of such services as well as of all
24 other expenses of Watermaster administration as between the several
25 pools established by the Physical Solution.

26 21. Measuring Devices. Watermaster shall cause parties,
27 pursuant to uniform rules, to install and maintain in good opera-
28 ting condition, at the cost of each party, such necessary measuring

1 devices or meters as Watermaster may deem appropriate. Such
2 measuring devices shall be inspected and tested as deemed necessary
3 by Watermaster, and the cost thereof shall constitute an expense of
4 Watermaster.

5 22. Assessments. Watermaster is empowered to levy and
6 collect all assessments provided for in the pooling plans and
7 Physical Solution.

8 23. Investment of Funds. Watermaster may hold and invest any
9 and all Watermaster funds in investments authorized from time to
10 time for public agencies of the State of California.

11 24. Borrowing. Watermaster may borrow from time to time
12 amounts not exceeding the annual anticipated receipts of Water-
13 master during such year.

14 25. Contracts. Watermaster may enter into contracts for the
15 performance of any powers herein granted; provided, however, that
16 Watermaster may not contract with or purchase materials, supplies
17 or services from CBMWD, except upon the prior recommendation and
18 approval of the Advisory Committee and pursuant to written order of
19 the Court.

20 26. Cooperation With Other Agencies. Subject to prior
21 recommendation or approval of the Advisory Committee, Watermaster
22 may act jointly or cooperate with agencies of the United States and
23 the State of California or any political subdivisions, munici-
24 palities or districts or any person to the end that the purpose of
25 the Physical Solution may be fully and economically carried out.

26 27. Studies. Watermaster may, with concurrence of the
27 Advisory Committee or affected Pool Committee and in accordance
28 with Paragraph 54(b), undertake relevant studies of hydrologic

1 conditions, both quantitative and qualitative, and operating
2 aspects of implementation of the management program for Chino
3 Basin.

4 28. Ground Water Storage Agreements. Watermaster shall
5 adopt, with the approval of the Advisory Committee, uniformly
6 applicable rules and a standard form of agreement for storage of
7 supplemental water, pursuant to criteria therefor set forth in
8 Exhibit "I". Upon appropriate application by any person, Water-
9 master shall enter into such a storage agreement; provided that all
10 such storage agreements shall first be approved by written order of
11 the Court, and shall by their terms preclude operations which will
12 have a substantial adverse impact on other producers.

13 29. Accounting for Stored Water. Watermaster shall calculate
14 additions, extractions and losses and maintain an annual account of
15 all Stored Water in Chino Basin, and any losses of water supplies
16 or Safe Yield of Chino Basin resulting from such Stored Water.

17 30. Annual Administrative Budget. Watermaster shall submit
18 to Advisory Committee an administrative budget and recommendation
19 for each fiscal year on or before March 1. The Advisory Committee
20 shall review and submit said budget and their recommendations to
21 Watermaster on or before April 1, following. Watermaster shall
22 hold a public hearing on said budget at its April quarterly meeting
23 and adopt the annual administrative budget which shall include the
24 administrative items for each pool committee. The administrative
25 budget shall set forth budgeted items in sufficient detail as
26 necessary to make a proper allocation of the expense among the
27 several pools, together with Watermaster's proposed allocation.
28 The budget shall contain such additional comparative information

1 or explanation as the Advisory Committee may recommend from time
2 to time. Expenditures within budgeted items may thereafter be
3 made by Watermaster in the exercise of powers herein granted, as a
4 matter of course. Any budget transfer in excess of 20% of a
5 budget category during any budget year or modification of such
6 administrative budget during any year shall be first submitted to
7 the Advisory Committee for review and recommendation.

8 31. Review Procedures. All actions, decisions or rules of
9 Watermaster shall be subject to review by the Court on its own
10 motion or on timely motion by any party, the Watermaster (in the
11 case of a mandated action), the Advisory Committee, or any Pool
12 Committee, as follows:

13 (a) Effective Date of Watermaster Action. Any action,
14 decision or rule of Watermaster shall be deemed to have
15 occurred or been enacted on the date on which written
16 notice thereof is mailed. Mailing of copies of approved
17 Watermaster minutes to the active parties shall constitute
18 such notice to all parties.

19 (b) Noticed Motion. Any party, the Watermaster (as
20 to any mandated action), the Advisory Committee, or any
21 Pool Committee may, by a regularly noticed motion, apply
22 to the Court for review of any Watermaster's action,
23 decision or rule. Notice of such motion shall be served
24 personally or mailed to Watermaster and to all active
25 parties. Unless otherwise ordered by the Court, such
26 motion shall not operate to stay the effect of such
27 Watermaster action, decision or rule.
28

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1 (c) Time for Motion. Notice of motion to review any
2 Watermaster action, decision or rule shall be served and filed
3 within ninety (90) days after such Watermaster action, de-
4 cision or rule, except for budget actions, in which event said
5 notice period shall be sixty (60) days.

6 (d) De Novo Nature of Proceedings. Upon the filing of
7 any such motion, the Court shall require the moving party to
8 notify the active parties, the Watermaster, the Advisory
9 Committee and each Pool Committee, of a date for taking
10 evidence and argument, and on the date so designated shall
11 review de novo the question at issue. Watermaster's findings
12 or decision, if any, may be received in evidence at said
13 hearing, but shall not constitute presumptive or prima facie
14 proof of any fact in issue.

15 (e) Decision. The decision of the Court in such proceed-
16 ing shall be an appealable supplemental order in this case.
17 When the same is final, it shall be binding upon the Water-
18 master and all parties.

19 C. ADVISORY AND POOL COMMITTEES

20 32. Authorization. Watermaster is authorized and directed to
21 cause committees of producer representatives to be organized to
22 act as Pool Committees for each of the several pools created under
23 the Physical Solution. Said Pool Committees shall, in turn,
24 jointly form an Advisory Committee to assist Watermaster in per-
25 formance of its functions under this judgment. Pool Committees
26 shall be composed as specified in the respective pooling plans, and
27 the Advisory Committee shall be composed of not to exceed ten (10)
28 voting representatives from each pool, as designated by the

1 respective Pool Committee. WMWD, PVMWD and SBVMWD shall each be
2 entitled to one non-voting representative on said Advisory Com-
3 mittee.

4 33. Term and Vacancies. Members of any Pool Committee, shall
5 serve for the term, and vacancies shall be filled, as specified in
6 the respective pooling plan. Members of the Advisory Committee
7 shall serve at the will of their respective Pool Committee.

8 34. Voting Power. The voting power on each Pool Committee
9 shall be allocated as provided in the respective pooling plan. The
10 voting power on the Advisory Committee shall be one hundred (100)
11 votes allocated among the three pools in proportion to the total
12 assessments paid to Watermaster during the preceding year; pro-
13 vided, that the minimum voting power of each pool shall be

- 14 (a) Overlying (Agricultural) Pool 20,
15 (b) Overlying (Non-agricultural) Pool 5, and
16 (c) Appropriative Pool 20.

17 In the event any pool is reduced to its said minimum vote, the re-
18 maining votes shall be allocated between the remaining pools on
19 said basis of assessments paid to Watermaster by each such remain-
20 ing pool during the preceding year. The method of exercise of
21 each pool's voting power on the Advisory Committee shall be as
22 determined by the respective pool committees.

23 35. Quorum. A majority of the voting power of the Advisory
24 Committee or any Pool Committee shall constitute a quorum for the
25 transaction of affairs of such Advisory or Pool Committee; pro-
26 vided, that at least one representative of each Pool Committee
27 shall be required to constitute a quorum of the Advisory Committee.
28 No Pool Committee representative may purposely absent himself or

1 herself, without good cause, from an Advisory Committee meeting to
2 deprive it of a quorum. Action by affirmative vote of a majority
3 of the entire voting power of any Pool Committee or the Advisory
4 Committee shall constitute action by such committee. Any action or
5 recommendation of a Pool Committee or the Advisory Committee shall
6 be transmitted to Watermaster in writing, together with a report of
7 any dissenting vote or opinion.

8 36. Compensation. Pool or Advisory Committee members may
9 receive compensation, to be established by the respective pooling
10 plan, but not to exceed twenty-five dollars (\$25.00) for each
11 meeting of such Pool or Advisory Committee attended, and provided
12 that no member of a Pool or Advisory Committee shall receive
13 compensation of more than three hundred (\$300.00) dollars for
14 service on any such committee during any one year. All such com-
15 pensation shall be a part of Watermaster administrative expense.
16 No member of any Pool or Advisory Committee shall be employed by
17 Watermaster or compensated by Watermaster for professional or other
18 services rendered to such Pool or Advisory Committee or to Water-
19 master, other than the fee for attendance at meetings herein
20 provided, plus reimbursement of reasonable expenses related to
21 activities within the Basin.

22 37. Organization.

23 (a) Organizational Meeting. At its first meeting in
24 each year, each Pool Committee and the Advisory Committee
25 shall elect a chairperson and a vice chairperson from its
26 membership. It shall also select a secretary, a treasurer
27 and such assistant secretaries and treasurers as may be
28 appropriate, any of whom may, but need not, be members of

1 such Pool or Advisory Committee.

2 (b) Regular Meetings. All Pool Committees and the
3 Advisory Committee shall hold regular meetings at a place and
4 time to be specified in the rules to be adopted by each Pool
5 and Advisory Committee. Notice of regular meetings of any
6 Pool or Advisory Committee, and of any change in time or
7 place thereof, shall be mailed to all active parties in said
8 pool or pools.

9 (c) Special Meetings. Special meetings of any Pool or
10 Advisory Committee may be called at any time by the Chair-
11 person or by any three (3) members of such Pool or Advisory
12 Committee by delivering notice personally or by mail to each
13 member of such Pool or Advisory Committee and to each active
14 party at least 24 hours before the time of each such meeting
15 in the case of personal delivery, and 96 hours in the case of
16 mail. The calling notice shall specify the time and place of
17 the special meeting and the business to be transacted. No
18 other business shall be considered at such meeting.

19 (d) Minutes. Minutes of all Pool Committee, Advisory
20 Committee and Watermaster meetings shall be kept at Water-
21 master's offices. Copies thereof shall be mailed or otherwise
22 furnished to all active parties in the pool or pools con-
23 cerned. Said copies of minutes shall constitute notice of any
24 Pool or Advisory Committee action therein reported, and shall
25 be available for inspection by any party.

26 (e) Adjournments. Any meeting of any Pool or Advisory
27 Committee may be adjourned to a time and place specified in
28 the order of adjournment. Less than a quorum may so adjourn

1 from time to time. A copy of the order or notice of adjourn-
2 ment shall be conspicuously posted forthwith on or near the
3 door of the place where the meeting was held.

4 38. Powers and Functions. The powers and functions of the
5 respective Pool Committees and the Advisory Committee shall be as
6 follows:

7 (a) Pool Committees. Each Pool Committee shall have the
8 power and responsibility for developing policy recommendations
9 for administration of its particular pool, as created under
10 the Physical Solution. All actions and recommendations of any
11 Pool Committee which require Watermaster implementation shall
12 first be noticed to the other two pools. If no objection is
13 received in writing within thirty (30) days, such action or
14 recommendation shall be transmitted directly to Watermaster
15 for action. If any such objection is received, such action or
16 recommendation shall be reported to the Advisory Committee
17 before being transmitted to Watermaster.

18 (b) Advisory Committee. The Advisory Committee shall
19 have the duty to study, and the power to recommend, review
20 and act upon all discretionary determinations made or to be
21 made hereunder by Watermaster.

22 [1] Committee Initiative. When any recommendation
23 or advice of the Advisory Committee is received by
24 Watermaster, action consistent therewith may be taken by
25 Watermaster; provided, that any recommendation approved
26 by 80 votes or more in the Advisory Committee shall
27 constitute a mandate for action by Watermaster consistent
28 therewith. If Watermaster is unwilling or unable to act

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1 pursuant to recommendation or advice from the Advisory
2 Committee (other than such mandatory recommendations),
3 Watermaster shall hold a public hearing, which shall be
4 followed by written findings and decision. Thereafter,
5 Watermaster may act in accordance with said decision,
6 whether consistent with or contrary to said Advisory
7 Committee recommendation. Such action shall be subject
8 to review by the Court, as in the case of all other
9 Watermaster determinations.

10 [2] Committee Review. In the event Watermaster
11 proposes to take any discretionary action, other than
12 approval or disapproval of a Pool Committee action or
13 recommendation properly transmitted, or execute any
14 agreement not theretofore within the scope of an Advisory
15 Committee recommendation, notice of such intended action
16 shall be served on the Advisory Committee and its members
17 at least thirty (30) days before the Watermaster meeting
18 at which such action is finally authorized.

19 (c) Review of Watermaster Actions. Watermaster (as to
20 mandated action), the Advisory Committee or any Pool Committee
21 shall be entitled to employ counsel and expert assistance in
22 the event Watermaster or such Pool or Advisory Committee seeks
23 Court review of any Watermaster action or failure to act. The
24 cost of such counsel and expert assistance shall be Water-
25 master expense to be allocated to the affected pool or pools.

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1 VI. PHYSICAL SOLUTION

2 A. GENERAL

3 39. Purpose and Objective. Pursuant to the mandate of
4 Section 2 of Article X of the California Constitution, the Court
5 hereby adopts and orders the parties to comply with a Physical
6 Solution. The purpose of these provisions is to establish a legal
7 and practical means for making the maximum reasonable beneficial
8 use of the waters of Chino Basin by providing the optimum economic,
9 long-term, conjunctive utilization of surface waters, ground waters
10 and supplemental water, to meet the requirements of water users
11 having rights in or dependent upon Chino Basin.

12 40. Need for Flexibility. It is essential that this Physical
13 Solution provide maximum flexibility and adaptability in order that
14 Watermaster and the Court may be free to use existing and future
15 technological, social, institutional and economic options, in order
16 to maximize beneficial use of the waters of Chino Basin. To that
17 end, the Court's retained jurisdiction will be utilized, where
18 appropriate, to supplement the discretion herein granted to the
19 Wastermaster.

20 41. Watermaster Control. Watermaster, with the advice of the
21 Advisory and Pool Committees, is granted discretionary powers in
22 order to develop an optimum basin management program for Chino
23 Basin, including both water quantity and quality considerations.
24 Withdrawals and supplemental water replenishment of Basin Water,
25 and the full utilization of the water resources of Chino Basin,
26 must be subject to procedures established by and administered
27 through Watermaster with the advice and assistance of the Advisory
28 and Pool Committees composed of the affected producers. Both the

1 quantity and quality of said water resources may thereby be pre-
2 served and the beneficial utilization of the Basin maximized.

3 42. General Pattern of Operations. It is contemplated that
4 the rights herein decreed will be divided into three (3) operating
5 pools for purposes of Watermaster administration. A fundamental
6 premise of the Physical Solution is that all water users dependent
7 upon Chino Basin will be allowed to pump sufficient waters from the
8 Basin to meet their requirements. To the extent that pumping
9 exceeds the share of the Safe Yield assigned to the Overlying
10 Pools, or the Operating Safe Yield in the case of the Appropriative
11 Pool, each pool will provide funds to enable Watermaster to replace
12 such overproduction. The method of assessment in each pool shall
13 be as set forth in the applicable pooling plan.

14 B. POOLING

15 43. Multiple Pools Established. There are hereby established
16 three (3) pools for Watermaster administration of, and for the
17 allocation of responsibility for, and payment of, costs of re-
18 plenishment water and other aspects of this Physical Solution.

19 (a) Overlying (Agricultural) Pool. The first pool shall
20 consist of the State of California and all overlying producers
21 who produce water for other than industrial or commercial
22 purposes. The initial members of the pool are listed in
23 Exhibit "C".

24 (b) Overlying (Non-agricultural) Pool. The second pool
25 shall consist of overlying producers who produce water for
26 industrial or commercial purposes. The initial members of
27 this pool are listed in Exhibit "D".

28 (c) Appropriative Pool. A third and separate pool shall

1 consist of owners of appropriative rights. The initial
2 members of the pool are listed in Exhibit "E".

3 Any party who changes the character of his use may, by sub-
4 sequent order of the Court, be reassigned to the proper pool; but
5 the allocation of Safe Yield under Paragraph 44 hereof shall not be
6 changed. Any non-party producer or any person who may hereafter
7 commence production of water from Chino Basin, and who may become a
8 party to this physical solution by intervention, shall be assigned
9 to the proper pool by the order of the Court authorizing such
10 intervention.

11 44. Determination and Allocation of Rights to Safe Yield of
12 Chino Basin. The declared Safe Yield of Chino Basin is hereby
13 allocated as follows:

14	<u>Pool</u>	<u>Allocation</u>
15	Overlying (Agricultural) Pool	414,000 acre feet in any five (5) consecutive years.
16	Overlying (Non-agricultural) 17 Pool.	7,366 acre feet per year.
18	Appropriative Pool	49,834 acre feet per year.

19 The foregoing acre foot allocations to the overlying pools are
20 fixed. Any subsequent change in the Safe Yield shall be debited or
21 credited to the Appropriative Pool. Basin Water available to the
22 Appropriative Pool without replenishment obligation may vary from
23 year to year as the Operating Safe Yield is determined by Water-
24 master pursuant to the criteria set forth in Exhibit "I".

25 45. Annual Replenishment. Watermaster shall levy and collect
26 assessments in each year, pursuant to the respective pooling plans,
27 in amounts sufficient to purchase replenishment water to replace
28 production by any pool during the preceding year which exceeds that

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1 pool's allocated share of Safe Yield in the case of the overlying
2 pools, or Operating Safe Yield in the case of the Appropriative
3 Pool. It is anticipated that supplemental water for replenishment
4 of Chino Basin may be available at different rates to the various
5 pools to meet their replenishment obligations. If such is the
6 case, each pool will be assessed only that amount necessary for the
7 cost of replenishment water to that pool, at the rate available to
8 the pool, to meet its replenishment obligation.

9 46. Initial Pooling Plans. The initial pooling plans, which
10 are hereby adopted, are set forth in Exhibits "F", "G" and "H",
11 respectively. Unless and until modified by amendment of the
12 judgment pursuant to the Court's continuing jurisdiction, each
13 such plan shall control operation of the subject pool.

14 C. REPORTS AND ACCOUNTING

15 47. Production Reports. Each party or responsible party
16 shall file periodically with Watermaster, pursuant to Watermaster
17 rules, a report on a form to be prescribed by Watermaster showing
18 the total production of such party during the preceding reportage
19 period, and such additional information as Watermaster may require,
20 including any information specified by the affected Pool Com-
21 mittee.

22 48. Watermaster Reports and Accounting. Watermaster's
23 annual report, which shall be filed on or before November 15 of
24 each year and shall apply to the preceding year's operation, shall
25 contain details as to operation of each of the pools and a certi-
26 fied audit of all assessments and expenditures pursuant to this
27 Physical Solution and a review of Watermaster activities.

28 - - - - -

D. REPLENISHMENT

1
2 49. Sources of Supplemental Water. Supplemental water may be
3 obtained by Watermaster from any available source. Watermaster
4 shall seek to obtain the best available quality of supplemental
5 water at the most reasonable cost for recharge in the Basin. To
6 the extent that costs of replenishment water may vary between
7 pools, each pool shall be liable only for the costs attributable to
8 its required replenishment. Available sources may include, but are
9 not limited to:

10 (a) Reclaimed Water. There exist a series of agreements
11 generally denominated the Regional Waste Water Agreements
12 between CBMWD and owners of the major municipal sewer systems
13 within the basin. Under those agreements, which are recog-
14 nized hereby but shall be unaffected and unimpaired by this
15 judgment, substantial quantities of reclaimed water may be
16 made available for replenishment purposes. There are addi-
17 tional sources of reclaimed water which are, or may become,
18 available to Watermaster for said purposes. Maximum benefi-
19 cial use of reclaimed water shall be given high priority by
20 Watermaster.

21 (b) State Water. State water constitutes a major
22 available supply of supplemental water. In the case of State
23 Water, Watermaster purchases shall comply with the water
24 service provisions of the State's water service contracts.
25 More specifically, Watermaster shall purchase State Water from
26 MWD for replenishment of excess production within CBMWD, WMWD
27 and PVMWD, and from SBVMWD to replenish excess production
28 within SBVMWD's boundaries in Chino Basin, except to the

1 extent that MWD and SBVMWD give their consent as required by
2 such State water service contracts.

3 (c) Local Import. There exist facilities and methods
4 for importation of surface and ground water supplies from
5 adjacent basins and watersheds.

6 (d) Colorado River Supplies. MWD has water supplies
7 available from its Colorado River Aqueduct.

8 50. Methods of Replenishment. Watermaster may accomplish
9 replenishment of overproduction from the Basin by any reasonable
10 method, including:

11 (a) Spreading and percolation or Injection of water in
12 existing or new facilities, subject to the provisions of
13 Paragraphs 19, 25 and 26 hereof.

14 (b) In Lieu Procedures. Watermaster may make, or cause
15 to be made, deliveries of water for direct surface use, in
16 lieu of ground water production.

17 E. REVENUES

18 51. Production Assessment. Production assessments, on what-
19 ever basis, may be levied by Watermaster pursuant to the pooling
20 plan adopted for the applicable pool.

21 52. Minimal Producers. Minimal Producers shall be exempted
22 from payment of production assessments, upon filing of production
23 reports as provided in Paragraph 47 of this Judgment, and payment
24 of an annual five dollar (\$5.00) administrative fee as specified by
25 Watermaster rules.

26 53. Assessment Proceeds -- Purposes. Watermaster shall have
27 the power to levy assessments against the parties (other than
28 minimal pumpers) based upon production during the preceding period

1 of assessable production, whether quarterly, semi-annually or
2 annually, as may be determined most practical by Watermaster or the
3 affected Pool Committee.

4 54. Administrative Expenses. The expenses of administration
5 of this Physical Solution shall be categorized as either (a) gen-
6 eral Watermaster administrative expense, or (b) special project
7 expense.

8 (a) General Watermaster Administrative Expense shall
9 include office rental, general personnel expense, supplies and
10 office equipment, and related incidental expense and general
11 overhead.

12 (b) Special Project Expense shall consist of special
13 engineering, economic or other studies, litigation expense,
14 meter testing or other major operating expenses. Each such
15 project shall be assigned a Task Order number and shall be
16 separately budgeted and accounted for.

17 General Watermaster administrative expense shall be allocated
18 and assessed against the respective pools based upon allocations
19 made by the Watermaster, who shall make such allocations based upon
20 generally accepted cost accounting methods. Special Project
21 Expense shall be allocated to a specific pool, or any portion there-
22 of, only upon the basis of prior express assent and finding of
23 benefit by the Pool Committee, or pursuant to written order of the
24 Court.

25 55. Assessments -- Procedure. Assessments herein provided
26 for shall be levied and collected as follows:

27 (a) Notice of Assessment. Watermaster shall give
28 written notice of all applicable assessments to each party on

1 or before ninety (90) days after the end of the production
2 period to which such assessment is applicable.

3 (b) Payment. Each assessment shall be payable on or
4 before thirty (30) days after notice, and shall be the ob-
5 ligation of the party or successor owning the water production
6 facility at the time written notice of assessment is given,
7 unless prior arrangement for payment by others has been made
8 in writing and filed with Watermaster.

9 (c) Delinquency. Any delinquent assessment shall bear
10 interest at 10% per annum (or such greater rate as shall equal
11 the average current cost of borrowed funds to the Watermaster)
12 from the due date thereof. Such delinquent assessment and
13 interest may be collected in a show-cause proceeding herein
14 instituted by the Watermaster, in which case the Court may
15 allow Watermaster its reasonable costs of collection, includ-
16 ing attorney's fees.

17 56. Accumulation of Replenishment Water Assessment Proceeds.

18 In order to minimize fluctuation in assessment and to give Water-
19 master flexibility in purchase and spreading of replenishment
20 water, Watermaster may make reasonable accumulations of replen-
21 ishment water assessment proceeds. Interest earned on such re-
22 tained funds shall be added to the account of the pool from which
23 the funds were collected and shall be applied only to the purchase
24 of replenishment water.

25 57. Effective Date. The effective date for accounting and
26 operation under this Physical Solution shall be July 1, 1977, and
27 the first production assessments hereunder shall be due after July
28 1, 1978. Watermaster shall, however, require installation of

1 meters or measuring devices and establish operating procedures
2 immediately, and the costs of such Watermaster activity (not
3 including the cost of such meters and measuring devices) may be
4 recovered in the first administrative assessment in 1978.

5
6 VII. MISCELLANEOUS PROVISIONS

7 58. Designation of Address for Notice and Service. Each
8 party shall designate the name and address to be used for purposes
9 of all subsequent notices and service herein, either by its en-
10 dorsement on the Stipulation for Judgment or by a separate desig-
11 nation to be filed within thirty (30) days after Judgment has been
12 served. Said designation may be changed from time to time by
13 filing a written notice of such change with the Watermaster. Any
14 party desiring to be relieved of receiving notices of Watermaster
15 or committee activity may file a waiver of notice on a form to be
16 provided by Watermaster. Thereafter such party shall be removed
17 from the Active Party list. Watermaster shall maintain at all
18 times a current list of active parties and their addresses for
19 purposes of service. Watermaster shall also maintain a full
20 current list of names and addresses of all parties or their suc-
21 cessors, as filed herein. Copies of such lists shall be available,
22 without cost, to any party, the Advisory Committee or any Pool
23 Committee upon written request therefor.

24 59. Service of Documents. Delivery to or service upon any
25 party or active party by the Watermaster, by any other party, or by
26 the Court, of any item required to be served upon or delivered to
27 such party or active party under or pursuant to the Judgment shall
28 be made personally or by deposit in the United States mail, first

1 class, postage prepaid, addressed to the designee and at the
2 address in the latest designation filed by such party or active
3 party.

4 60. Intervention After Judgment. Any non-party assignee of
5 the adjudicated appropriative rights of any appropriator, or any
6 other person newly proposing to produce water from Chino Basin, may
7 become a party to this judgment upon filing a petition in inter-
8 vention. Said intervention must be confirmed by order of this
9 Court. Such intervenor shall thereafter be a party bound by this
10 judgment and entitled to the rights and privileges accorded under
11 the Physical Solution herein, through the pool to which the Court
12 shall assign such intervenor.

13 61. Loss of Rights. Loss, whether by abandonment, forfeiture
14 or otherwise, of any right herein adjudicated shall be accomplished
15 only (1) by a written election by the owner of the right filed with
16 Watermaster, or (2) by order of the Court upon noticed motion and
17 after hearing.

18 62. Scope of Judgment. Nothing in this Judgment shall be
19 deemed to preclude or limit any party in the assertion against a
20 neighboring party of any cause of action now existing or hereafter
21 arising based upon injury, damage or depletion of water supply
22 available to such party, proximately caused by nearby pumping which
23 constitutes an unreasonable interference with such complaining
24 party's ability to extract ground water.

25 63. Judgment Binding on Successors. This Judgment and all
26 provisions thereof are applicable to and binding upon not only the
27 parties to this action, but also upon their respective heirs,
28 executors, administrators, successors, assigns, lessees and

LAW OFFICES
DONALD D. STARK
A PROFESSIONAL CORPORATION
SUITE 201
2061 BUSINESS CENTER DRIVE
IRVINE, CALIFORNIA 92715
(714) 752-8971

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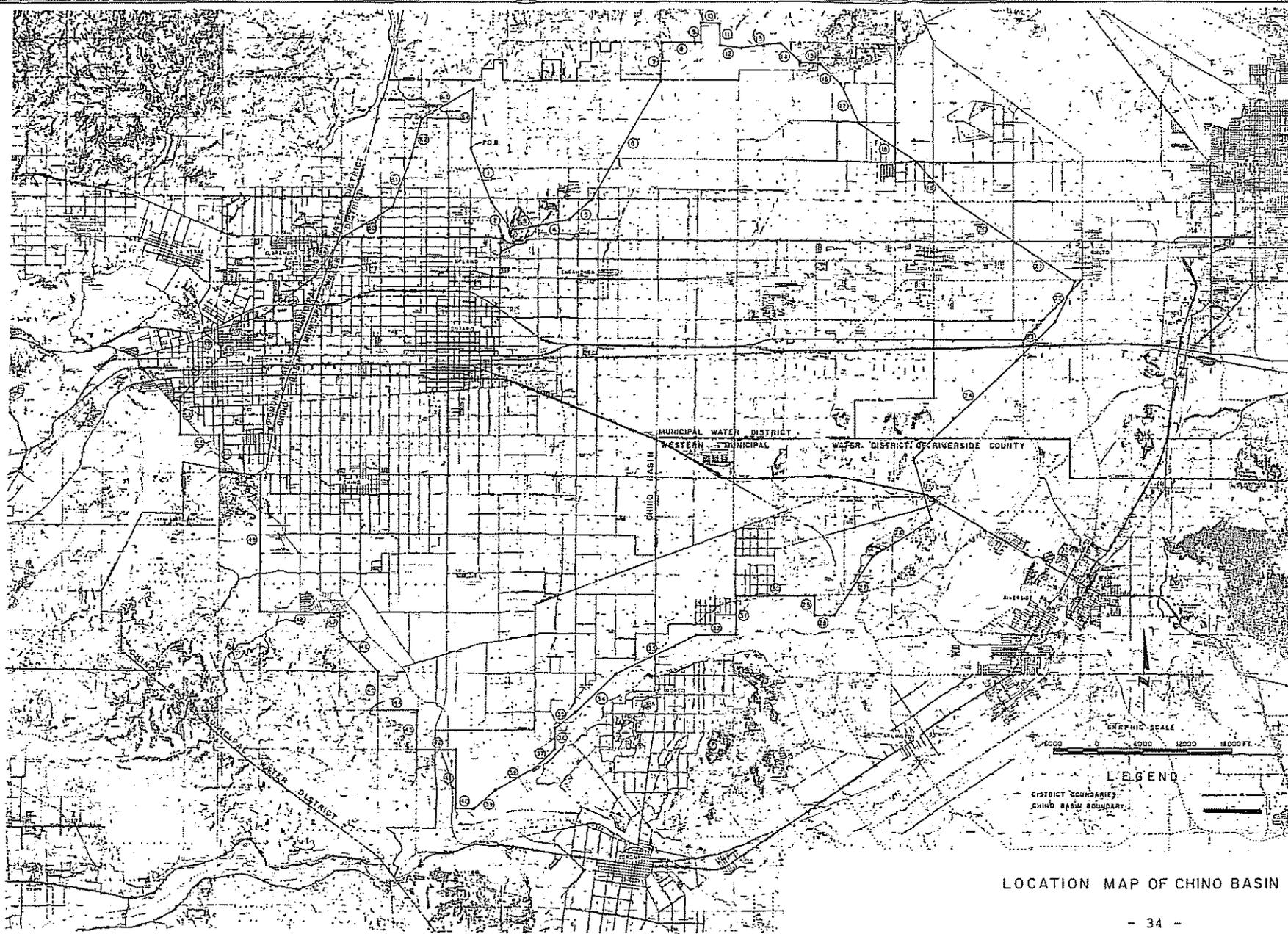
licensees and upon the agents, employees and attorneys in fact of all such persons.

64. Costs. No party shall recover any costs in this proceeding from any other party.

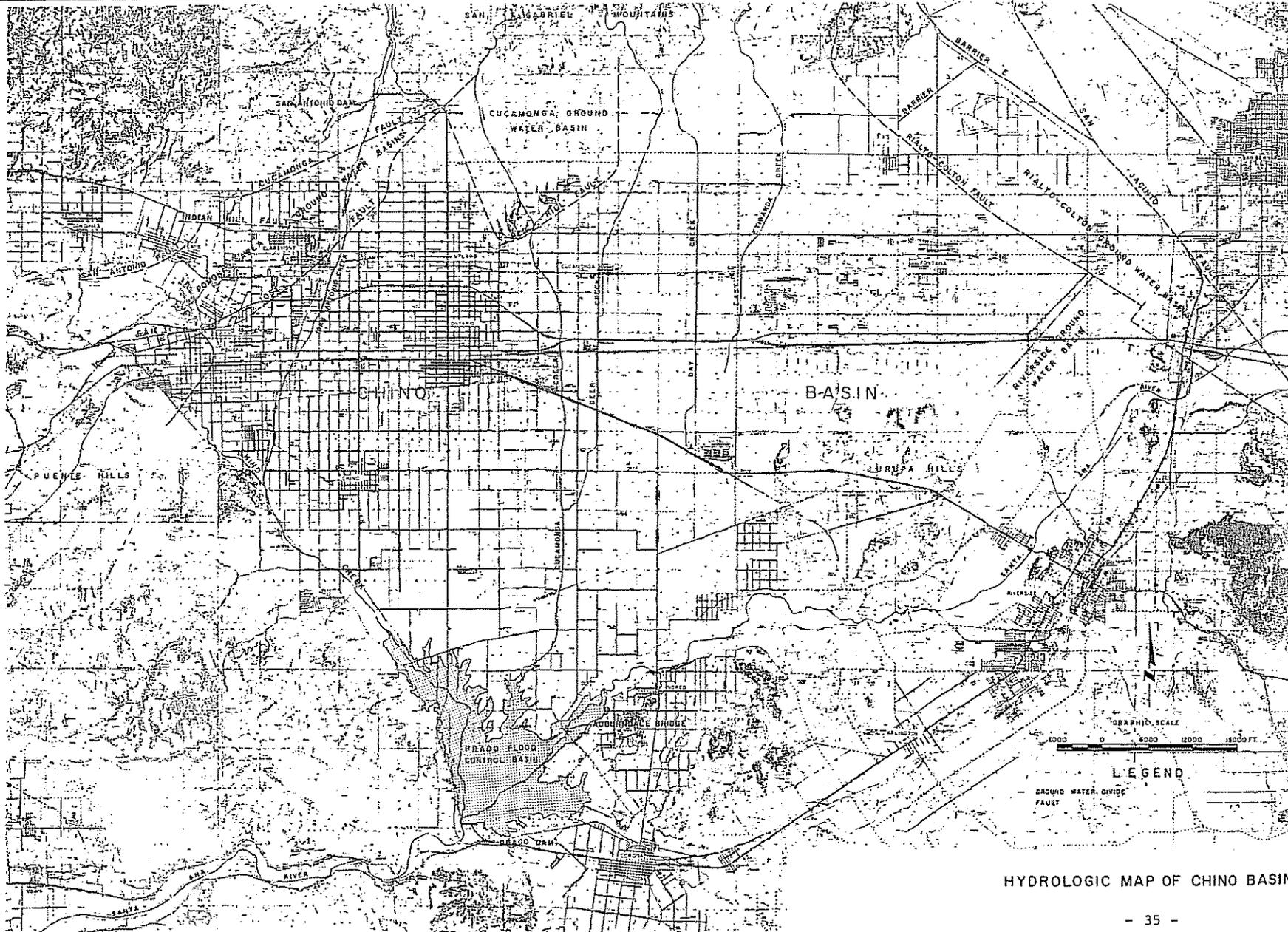
Dated: JAN 27 1978.

Arnold B. Weiss

Judge



LOCATION MAP OF CHINO BASIN



HYDROLOGIC MAP OF CHINO BASIN

STIPULATING OVERLYING AGRICULTURAL PRODUCERS

1	STATE OF CALIFORNIA	Aphessetche, Xavier
2	COUNTY OF SAN BERNARDINO	Arena Mutual Water Assn.
3	Abacherli Dairy, Inc.	Armstrong Nurseries, Inc.
4	Abacherli, Frank	Arretche, Frank
5	Abacherli, Shirley	Arretche, Jean Pierre
6	Abbona, Anna	Arvidson, Clarence F.
7	Abbona, James	Arvidson, Florence
8	Abbona, Jim	Ashley, George W.
9	Abbona, Mary	Ashley, Pearl E.
10	Agliani, Amelia H.	Atlas Farms
11	Agman, Inc.	Atlas Ornamental Iron Works, Inc.
12	Aguerre, Louis B.	Aukeman, Carol
13	Ahmanson Trust Co.	Aukeman, Lewis
14	Akiyama, Shizuye	Ayers, Kenneth C., aka
15	Akiyama, Tomoo	Kelley Ayers
16	Akkerman, Dave	Bachoc, Raymond
17	Albers, J. N.	Baldwin, Edgar A.
18	Albers, Nellie	Baldwin, Lester
19	Alewyn, Jake J.	Banbury, Carolyn
20	Alewyn, Normalee	Bangma Dairy
21	Alger, Mary D.	Bangma, Arthur
22	Alger, Raymond	Bangma, Ida
23	Allen, Ben F.	Bangma, Martin
24	Allen, Jane F.	Bangma, Sam
25	Alta-Dena Dairy	Barba, Anthony B.
26	Anderson Farms	Barba, Frank
27	Anguiano, Sarah L. S.	Barcellos, Joseph
28	Anker, Gus	Barnhill, Maurine W.

EXHIBIT "C"

1	Barnhill, Paul	Boersma, Angie
2	Bartel, Dale	Boersma, Berdina
3	Bartel, Ursula	Boersma, Frank
4	Bartel, Willard	Boersma, Harry
5	Barthelemy, Henry	Boersma, Paul
6	Barthelemy, Roland	Boersma, Sam
7	Bassler, Donald V., M.D.	Boersma, William L.
8	Bates, Lowell R.	Bohlender & Holmes, Inc.
9	Bates, Mildred L.	Bokma, Peter
10	Beahm, James W.	Bollema, Jacob
11	Beahm, Joan M.	Boonstoo, Edward
12	Bekendam, Hank	Bootsma, Jim
13	Bekendam, Pete	Borba, Dolene
14	Bello, Eugene	Borba, Dolores
15	Bello, Olga	Borba, Emily
16	Beltman, Evelyn	Borba, George
17	Beltman, Tony	Borba, John
18	Bergquist Properties, Inc.	Borba, John & Sons
19	Bevacqua, Joel A.	Borba, John Jr.
20	Bevacqua, Marie B.	Borba, Joseph A.
21	Bidart, Bernard	Borba, Karen E.
22	Bidart, Michael J.	Borba, Karen M.
23	Binnell, Wesley	Borba, Pete, Estate of
24	Black, Patricia E.	Borba, Ricci
25	Black, Victor	Borba, Steve
26	Bodger, John & Sons Co.	Borba, Tom
27	Boer, Adrian	Bordisso, Alleck
28	Boersma and Wind Dairy	Borges, Angelica M.

1	Borges, Bernadette	Bothof, Roger W.
2	Borges, John O.	Bouma, Cornie
3	Borges, Linda L.	Bouma, Emma
4	Borges, Manual Jr.	Bouma, Henry P.
5	Borges, Tony	Bouma, Martin
6	Bos, Aleid	Bouma, Peter G. & Sons Dairy
7	Bos, Gerrit	Bouma, Ted
8	Bos, John	Bouman, Helen
9	Bos, John	Bouman, Sam
10	Bos, Margaret	Bower, Mabel E.
11	Bos, Mary	Boys Republic
12	Bos, Mary Beth	Breedyk, Arie
13	Bos, Tony	Breedyk, Jessie
14	Bosch, Henrietta	Briano Brothers
15	Bosch, Peter T.	Briano, Albert
16	Boschma, Betty	Briano, Albert Trustee for
17	Boschma, Frank	Briano, Albert Frank
18	Boschma, Greta	Briano, Lena
19	Boschma, Henry	Brink, Russell N.
20	Bosma, Dick	Brinkerhoff, Margaret
21	Bosma, Florence G.	Brinkerhoff, Robert L.
22	Bosma, Gerrit	Britschgi, Florence
23	Bosma, Jacob J.	Britschgi, Magdalena Garetto
24	Bosma, Jeanette Thea	Britschgi, Walter P.
25	Bosman, Frank	Brommer, Marvin
26	Bosman, Nellie	Brookside Enterprizes, dba
27	Bosnyak, Goldie M.	Brookside Vineyard Co.
28	Bosnyak, Martin	Brothers Three Dairy

1	Brown, Eugene	Chino Corona Investment
2	Brun, Martha M.	Chino Water Co.
3	Brun, Peter Robert	Christensen, Leslie
4	Buma, Duke	Christensen, Richard G.
5	Buma, Martha	Christian, Ada R.
6	Bunse, Nancy	Christian, Harold F.
7	Bunse, Ronnie L.	Christy, Ella J.
8	Caballero, Bonnie L.	Christy, Ronald S.
9	Caballero, Richard F.	Cihigoyenette, Jean
10	Cable Airport Inc.	Cihigoyenette, Leona
11	Cadlani, Donald	Cihigoyenette, Martin
12	Cadlani, Jesse R.	Clarke, Arthur B.
13	Cadlani, Marie Edna	Clarke, Nancy L.
14	Cambio, Anna	Clarke, Phyllis J.
15	Cambio, Charles, Estate of	Coelho, Isabel
16	Cambio, William V.	Coelho, Joe A. Jr.
17	Cardoza, Florence	Collins, Howard E.
18	Cardoza, Olivi	Collins, Judith F.
19	Cardoza, Tony	Collinsworth, Ester L.
20	Carnesi, Tom	Collinsworth, John E.
21	Carver, Robt M., Trustee	Collinsworth, Shelby
22	Cauffman, John R.	Cone Estate (05-2-00648/649)
23	Chacon Bros.	Consolidated Freightways Corp.
24	Chacon, Elvera P.	of Delaware
25	Chacon, Joe M.	Corona Farms Co.
26	Chacon, Robert M.	Corra, Rose
27	Chacon, Virginia L.	Costa, Dimas S.
28	Chez, Joseph C.	Costa, Laura

1	Costa, Myrtle	De Boer, L. H.
2	Costamagna, Antonio	De Boer, Sidney
3	Costamagna, Joseph	De Bos, Andrew
4	Cousyn, Claus B.	De Graaf, Anna Mae
5	Cramer, Carole F.	De Graaf, Gerrit
6	Cramer, William R.	De Groot, Dick
7	Crossroads Auto Dismantlers, Inc.	De Groot, Dorothy
8	Crouse, Beatrice I.	De Groot, Ernest
9	Crouse, Roger	De Groot, Henrietta
10	Crowley, Juanita C.	De Groot, Jake
11	Crowley, Ralph	De Groot, Pete Jr.
12	Cucamonga Vintners	De Haan, Bernadena
13	D'Astici, Teresa	De Haan, Henry
14	Da Costa, Cecilia B.	De Hoog, Adriana
15	Da Costa, Joaquim F.	De Hoog, Joe
16	Daloisio, Norman	De Hoog, Martin
17	De Berard Bros.	De Hoog, Martin L.
18	De Berard, Arthur, Trustee	De Hoog, Mitch
19	De Berard, Charles	De Hoog, Tryntje
20	De Berard, Chas., Trustee	De Jager, Cobi
21	De Berard, Helan J.	De Jager, Edward D.
22	De Berard, Robert	De Jong Brothers Dairy
23	De Berard, Robert, Trustee	De Jong, Cornelis
24	De Bie, Adrian	De Jong, Cornelius
25	De Bie, Henry	De Jong, Grace
26	De Bie, Margaret M.	De Jong, Jake
27	De Bie, Marvin	De Jong, Lena
28	De Boer, Fred	De Leeuw, Alice

1	De Leeuw, Sam	Dirkse, Catherine
2	De Soete, Agnes	Dirkse, Charles C.
3	De Soete, Andre	Dixon, Charles E.
4	De Vries, Abraham	Dixon, Geraldine A.
5	De Vries, Case	Doesberg, Hendrica
6	De Vries, Dick	Doesburg, Theodorus P.
7	De Vries, Evelyn	Dolan, Marion
8	De Vries, Henry, Estate of	Dolan, Michael H.
9	De Vries, Hermina	Dominguez, Helen
10	De Vries, Jack H.	Dominguez, Manual
11	De Vries, Jane	Donkers, Henry A.
12	De Vries, Janice	Donkers, Nellie G.
13	De Vries, John	Dotta Bros.
14	De Vries, John J.	Douma Brothers Dairy
15	De Vries, Neil	Douma, Betty A.
16	De Vries, Ruth	Douma, Fred A.
17	De Vries, Theresa	Douma, Hendrika
18	De Wit, Gladys	Douma, Herman G.
19	De Wit, Peter S.	Douma, Narleen J.
20	De Wyn, Evert	Douma, Phillip M.
21	De Zoete, Hattie V.	Dow Chemical Co.
22	De Zoete, Leo A.	Dragt, Rheta
23	Decker, Hallie	Dragt, William
24	Decker, Henry A.	Driftwood Dairy Farm
25	Demmer, Ernest	Droogh, Case
26	Di Carlo, Marie	Duhalde, Marian
27	Di Carlo, Victor	Duhalde, Lauren
28	Di Tommaso, Frank	Duits, Henrietta

1	Duits, John	Excelsior Farms F.D.I.C.
2	Dunlap, Edna Kraemer,	Fagundes, Frank M.
3	Estate of	Fagundes, Mary
4	Durrington, Glen	Fernandes, Joseph Jr.
5	Durrington, William F.	Fernandes, Velma C.
6	Dusi, John, Sr.	Ferraro, Ann
7	Dykstra, Dick	Ferreira, Frank J.
8	Dykstra, John	Ferreira, Joe C. Jr.
9	Dykstra, John & Sons	Ferreira, Narcie
10	Dykstra, Wilma	Filippi, J. Vintage Co.
11	Dyt, Cor	Filippi, Joseph
12	Dyt, Johanna	Filippi, Joseph A.
13	E and S Grape Growers	Filippi, Mary E.
14	Eaton, Thomas, Estate of	Fitzgerald, John R.
15	Echeverria, Juan	Flameling Dairy Inc.
16	Echeverria, Carlos	Flamingo Dairy
17	Echeverria, Pablo	Foss, Douglas E.
18	Eilers, E. Myrle	Foss, Gerald R.
19	Eilers, Henry W.	Foss, Russel
20	El Prado Golf Course	Fred & John Troost No. 1 Inc.
21	Ellsworth, Rex C.	Fred & Maynard Troost No. 2 Inc.
22	Engelsma, Jake	Freitas, Beatriz
23	Engelsma, Susan	Freitas, Tony T.
24	Escojeda, Henry	Gakle, Louis L.
25	Etiwanda Grape Products Co.	Galleano Winery, Inc.
26	Euclid Ave. Investment One	Galleano, Bernard D.
27	Euclid Ave. Investment Four	Galleano, D.
28	Euclid Ave. Three Investment	Galleano, Mary M.

1	Garcia, Pete	Hansen, Raymond F.
2	Gardner, Leland V.	Hanson, Ardeth W.
3	Gardner, Lola M.	Harada, James T.
4	Garrett, Leonard E.	Harada, Violet A.
5	Garrett, Patricia T.	Haringa, Earl and Sons
6	Gastelluberry, Catherine	Haringa, Herman
7	Gastelluberry, Jean	Haringa, Rudy
8	Gilstrap, Glen E.	Haringa, William
9	Gilstrap, Marjorie J.	Harper, Cecilia de Mille
10	Godinho, John	Harrington, Winona
11	Godinho, June	Harrison, Jacqueline A.
12	Gonsalves, Evelyn	Hatanaka, Kenichi
13	Gonsalves, John	Heida, Annie
14	Gorzeman, Geraldine	Heida, Don
15	Gorzeman, Henry A.	Heida, Jim
16	Gorzeman, Joe	Heida, Sam
17	Govea, Julia	Helms, Addison D.
18	Goyenette, Albert	Helms, Irma A.
19	Grace, Caroline E.	Hermans, Alma I.
20	Grace, David J.	Hermans, Harry
21	Gravatt, Glenn W.	Hettinga, Arthur
22	Gravatt, Sally Mae	Hettinga, Ida
23	Greydanus Dairy, Inc.	Hettinga, Judy
24	Greydanus, Rena	Hettinga, Mary
25	Griffin Development Co.	Hettinga, Wilbur
26	Haagsma, Dave	Heublein, Inc., Grocery Products
27	Haagsma, John	Group
28	Hansen, Mary D.	Hibma, Catherine M.

1	Hibma, Sidney	Hohberg, Harold C.
2	Hicks, Kenneth I.	Hohberg, Harold W.
3	Hicks, Minnie M.	Holder, Arthur B.
4	Higgins Brick Co.	Holder, Dorothy F.
5	Highstreet, Alfred V.	Holmes, A. Lee
6	Highstreet, Evada V.	Holmes, Frances P.
7	Hilarides, Bertha as Trustee	Hoogeboom, Gertrude
8	Hilarides, Frank	Hoogeboom, Pete
9	Hilarides, John as Trustee	Hoogendam, John
10	Hindelang, Tillie	Hoogendam, Tena
11	Hindelang, William	Houssels, J. K. Thoroughbred Farm
12	Hobbs, Bonnie C.	
13	Hobbs, Charles W.	Hunt Industries
14	Hobbs, Hazel I.	Idsinga, Ann
15	Hobbs, Orlo M.	Idsinga, William W.
16	Hoekstra, Edward	Imbach Ranch, Inc.
17	Hoekstra, George	Imbach, Kenneth E.
18	Hoekstra, Grace	Imbach, Leonard K.
19	Hoekstra, Louie	Imbach, Oscar K.
20	Hofer, Paul B.	Imbach, Ruth M.
21	Hofer, Phillip F.	Indaburu, Jean
22	Hofstra, Marie	Indaburu, Marceline
23	Hogeboom, Jo Ann M.	Iseli, Kurt H.
24	Hogeboom, Maurice D.	Ito, Kow
25	Hogg, David V.	J & B Dairy Inc.
26	Hogg, Gene P.	Jaques, Johnny C. Jr.
27	Hogg, Warren G.	Jaques, Mary
28	Hohberg, Edith J.	Jaques, Mary Lou

1	Jay Em Bee Farms	Knevelbaard, John
2	Johnson Bro's Egg Ranches, Inc.	Knudsen, Ejnar
3	Johnston, Ellwood W.	Knudsen, Karen M.
4	Johnston, George F. Co.	Knudsen, Kenneth
5	Johnston, Judith H.	Knudson, Robert
6	Jones, Leonard P.	Knudson, Darlene
7	Jongsma & Sons Dairy	Koel, Helen S.
8	Jongsma, Diana A.	Koetsier, Gerard
9	Jongsma, Dorothy	Koetsier, Gerrit J.
10	Jongsma, George	Koetsier, Jake
11	Jongsma, Harold	Koning, Fred W.
12	Jongsma, Henry	Koning, Gloria
13	Jongsma, John	Koning, J. W. Estate
14	Jongsma, Nadine	Koning, James A.
15	Jongsma, Tillie	Koning, Jane
16	Jordan, Marjorie G.	Koning, Jane C.
17	Jordan, Troy O.	Koning, Jennie
18	Jorritsma, Dorothy	Koning, John
19	Juliano, Albert	Koning, Victor A.
20	Kamper, Cornelis	Kooi Holstein Corporation
21	Kamstra, Wilbert	Koolhaas, Kenneth E.
22	Kaplan, Lawrence J.	Koolhaas, Simon
23	Kasbergen, Martha	Koolhaas, Sophie Grace
24	Kasbergen, Neil	Koopal, Grace
25	Kazian, Angelen Estate of	Koopal, Silas
26	Kingsway Const. Corp.	Koopman, Eka
27	Klapps Market	Koopman, Gene T.
28	Kline, James K.	Koopman, Henry G.

1	Koopman, Ted	Leck, Arthur A.
2	Koopman, Tena	Leck, Evelyn M.
3	Koot, Nick	Lee, Harold E.
4	Koster, Aart	Lee, Helen J.
5	Koster, Frances	Lee, Henrietta C.
6	Koster, Henry B.	Lee, R. T. Construction Co.
7	Koster, Nellie	Lekkerkerk, Adriana
8	Kroes, Jake R.	Lekkerkerk, L. M.
9	Kroeze, Bros	Lekkerkerker, Nellie
10	Kroeze, Calvin E.	Lekkerkerker, Walt
11	Kroeze, John	Lewis Homes of California
12	Kroeze, Wesley	Livingston, Dorothy M.
13	Kruckenber, Naomi	Livingston, Rex E.
14	Kruckenber, Perry	Lokey, Rosemary Kraemer
15	L. D. S. Welfare Ranch	Lopes, Candida A.
16	Labrucherie, Mary Jane	Lopes, Antonio S.
17	Labrucherie, Raymond F.	Lopez, Joe D.
18	Lako, Samuel	Lourenco, Carlos, Jr.
19	Landman Corp.	Lourenco, Carmelina P.
20	Lanting, Broer	Lourenco, Jack C.
21	Lanting, Myer	Lourenco, Manual H.
22	Lass, Jack	Lourenco, Mary
23	Lass, Sandra L.	Lourenco, Mary
24	Lawrence, Cecelia, Estate of	Luiten, Jack
25	Lawrence, Joe H., Estate of	Luiz, John M.
26	Leal, Bradley W.	Luna, Christine I.
27	Leal, John C.	Luna, Ruben T.
28	Leal, John Craig	Lusk, John D. and Son a California corporation

1	Lyon, Gregory E.	Mickel, Louise
2	Lyon, Paula E.	Miersma, Dorothy
3	M & W Co. #2	Meirsma, Harry C.
4	Madole, Betty M.	Minaberry, Arnaud
5	Madole, Larry B.	Minaberry, Marie
6	Marquez, Arthur	Mistretta, Frank J.
7	Marquine, Jean	Mocho and Plaa Inc.
8	Martin, Lelon O.	Mocho, Jean
9	Martin, Leon O.	Mocho, Noeline
10	Martin, Maria D.	Modica, Josephine
11	Martin, Tony J.	Montes, Elizabeth
12	Martins, Frank	Montes, Joe
13	Mathias, Antonio	Moons, Beatrice
14	Mc Cune, Robert M.	Moons, Jack
15	Mc Masters, Gertrude	Moramarco, John A. Enterprises
16	Mc Neill, J. A.	Moreno, Louis W.
17	Mc Neill, May F.	Moss, John R.
18	Mees, Leon	Motion Pictures Associates, Inc.
19	Mello and Silva Dairy	Moynier, Joe
20	Mello and Sousa Dairy	Murphy, Frances V.
21	Mello, Emilia	Murphy, Myrl L.
22	Mello, Enos C.	Murphy, Naomi
23	Mello, Mercedes	Nanne, Martin Estate of
24	Mendiondo, Catherine	Nederend, Betty
25	Mendiondo, Dominique	Nederend, Hans
26	Meth. Hosp. - Sacramento	Norfolk, James
27	Metzger, R. S.	Norfolk, Martha
28	Metzger, Winifred	Notrica, Louis

1	Nyberg, Lillian M.	Ormonde, Viva
2	Nyenhuis, Annie	Ortega, Adeline B.
3	Nyenhuis, Jim	Ortega, Bernard Dino
4	Occidental Land Research	Osterkamp, Joseph S.
5	Okumura, Marion	Osterkamp, Margaret A.
6	Okumura, Yuiche	P I E Water Co.
7	Oldengarm, Effie	Palmer, Eva E.
8	Oldengarm, Egbert	Palmer, Walter E.
9	Oldengarm, Henry	Parente, Luis S.
10	Oliviera, Manuel L.	Parente, Mary Borba .
11	Oliviera, Mary M.	Parks, Jack B.
12	Olson, Albert	Parks, Laura M.
13	Oltmans Construction Co.	Patterson, Lawrence E. Estate of
14	Omlin, Anton	Payne, Clyde H.
15	Omlin, Elsie L.	Payne, Margo
16	Ontario Christian School Assn.	Pearson, Athelia K.
17	Oord, John	Pearson, William C.
18	Oostdam, Jacoba	Pearson, William G.
19	Oostdam, Pete	Pene, Robert
20	Oosten, Agnes	Perian, Miller
21	Oosten, Anthonia	Perian, Ona E.
22	Oosten, Caroline	Petrissans, Deanna
23	Oosten, John	Petrissans, George
24	Oosten, Marinus	Petrissans, Jean P.
25	Oosten, Ralph	Petrissans, Marie T.
26	Orange County Water District	Pickering, Dora M.
27	Ormonde, Manuel	(Mrs. A. L. Pickering)
28	Ormonde, Pete, Jr.	Pierce, John

1	Pierce, Sadie	Righetti, A. T.
2	Pietszak, Sally	Riley, George A.
3	Pine, Joe	Riley, Helen C.
4	Pine, Virginia	Robbins, Jack K.
5	Pires, Frank	Rocha, John M.
6	Pires, Marie	Rocha, Jose C.
7	Plaa, Jeanne	Rodrigues, John
8	Plaa, Michel	Rodrigues, Manuel
9	Plantenga, Agnes	Rodrigues, Manuel, Jr.
10	Plantenga, George	Rodrigues, Mary L.
11	Poe, Arlo D.	Rodriquez, Daniel
12	Pomona Cemetery Assn.	Rogers, Jack D.
13	Porte, Cecelia, Estate of	Rohrer, John A.
14	Porte, Garritt, Estate of	Rohrer, Theresa D.
15	Portsmouth, Vera McCarty	Rohrs, Elizabeth H.
16	Ramella, Mary M.	Rossetti, M. S.
17	Ramirez, Concha	Roukema, Angeline
18	Rearick, Hildegard H.	Roukema, Ed.
19	Rearick, Richard R.	Roukema, Nancy
20	Reinalda, Clarence	Roukema, Siebren
21	Reitsma, Greta	Ruderian, Max J.
22	Reitsma, Louis	Russell, Fred J.
23	Rice, Bernice	Rusticus, Ann
24	Rice, Charlie E.	Rusticus, Charles
25	Richards, Karin	Rynsburger, Arie
26	(Mrs. Ronnie Richards)	Rynsburger, Berdena, Trust
27	Richards, Ronald L.	Rynsburger, Joan Adele
28	Ridder, Jennie Wassenaar	Rynsburger, Thomas

1	S. P. Annex, Inc.	Scott, Frances M.
2	Salisbury, Elinor J.	Scott, Linda F.
3	Sanchez, Edmundo	Scott, Stanley A.
4	Sanchez, Margarita O.	Scritsmier, Lester J.
5	Santana, Joe Sr.	Serl, Charles A.
6	Santana, Palmira	Serl, Rosalie P.
7	Satragni, John B. Jr.	Shady Grove Dairy, Inc.
8	Scaramella, George P.	Shamel, Burt A.
9	Schaafsma Bros.	Shelby, Harold E.
10	Schaafsma, Jennie	Shelby, John A.
11	Schaafsma, Peter	Shelby, Velma M.
12	Schaafsma, Tom	Shelton, Alice A.
13	Schaap, Andy	Sherwood, Robert W.
14	Schaap, Ids	Sherwood, Sheila J.
15	Schaap, Maria	Shue, Eva
16	Schacht, Sharon C.	Shue, Gilbert
17	Schakel, Audrey	Sieperda, Anne
18	Schakel, Fred	Sieperda, James
19	Schmid, Olga	Sigrist, Hans
20	Schmidt, Madeleine	Sigrist, Rita
21	Schoneveld, Evert	Silveira, Arline L.
22	Schoneveld, Henrietta	Silveira, Frank
23	Schoneveld, John	Silveira, Jack
24	Schoneveld, John Allen	Silveira, Jack P. Jr.
25	Schug, Donald E.	Simas, Dolores
26	Schug, Shirley A.	Simas, Joe
27	Schuh, Bernatta M.	Singleton, Dean
28	Schuh, Harold H.	Singleton, Elsie R.

1	Sinnott, Jim	Staal, John
2	Sinnott, Mildred B.	Stahl, Zippora P.
3	Slegers, Dorothy	Stampfl, Berta
4	Slegers, Hubert J.	Stampfl, William
5	Slegers, Jake	Stanley, Robert E.
6	Slegers, Jim	Stark, Everett
7	Slegers, Lenwood M.	Stellingwerf, Andrew
8	Slegers, Martha	Stellingwerf, Henry
9	Slegers, Tesse J.	Stellingwerf, Jenette
10	Smith, Edward S.	Stellingwerf, Shana
11	Smith, Helen D.	Stellingwerf, Stan
12	Smith, James E.	Stelzer, Mike C.
13	Smith, Keith J.	Sterk, Henry
14	Smith, Lester W.	Stiefel, Winifred
15	Smith, Lois Maxine	Stiefel, Jack D.
16	Smith, Marjorie W.	Stigall, Richard L.
17	Soares, Eva	Stigall, Vita
18	Sogioka, Mitsuyoshi	Stockman's Inn
19	Sogioka, Yoshimato	Stouder, Charlotte A.
20	Sousa, Sam	Stouder, William C.
21	Southern Pacific Land Co.	Struikmans, Barbara
22	Southfield, Eddie	Struikmans, Gertie
23	Souza, Frank M.	Struikmans, Henry Jr.
24	Souza, Mary T.	Struikmans, Henry Sr.
25	Spickerman, Alberta	Struikmans, Nellie
26	Spickerman, Florence	Swager, Edward
27	Spickerman, Rudolph	Swager, Gerben
28	Spyksma, John	Swager, Johanna

1	Swager, Marion	Terpstra, Theodore G.
2	Swierstra, Donald	Teune, Tony
3	Swierstra, Fanny	Teunissen, Bernard
4	Sybrandy, Ida	Teunissen, Jane
5	Sybrandy, Simon	Thomas, Ethel M.
6	Sytsma, Albert	Thommen, Alice
7	Sytsma, Edith	Thommen, Fritz
8	Sytsma, Jennie	Tillema, Allie
9	Sytsma, Louie	Tillema, Harold
10	Te Velde, Agnes	Tillema, Klaas D.
11	Te Velde, Bay	Timmons, William R.
12	Te Velde, Bernard A.	Tollerup, Barbara
13	Te Velde, Bonnie	Tollerup, Harold
14	Te Velde, Bonnie G.	Trapani, Louis A.
15	Te Velde, George	Trimlett, Arlene R.
16	Te Velde, George, Jr.	Trimlett, George E.
17	Te Velde, Harm	Tristant, Pierre
18	Te Velde, Harriet	Tuinhout, Ale
19	Te Velde, Henry J.	Tuinhout, Harry
20	Te Velde, Jay	Tuinhout, Hilda
21	Te Velde, Johanna	Tuls, Elizabeth
22	Te Velde, John H.	Tuls, Jack S.
23	Te Velde, Ralph A.	Tuls, Jake
24	Te Velde, Zwaantina, Trustee	Union Oil Company of California
25	Ter Maaten, Case	United Dairyman's Co-op.
26	Ter Maaten, Cleone	Urquhart, James G.
27	Ter Maaten, Steve	Usle, Cathryn
28	Terpstra, Carol	Usle, Faustino

1	V & Y Properties	Van Hofwegen, Clara
2	Vaile, Beryl M.	Van Hofwegen, Jessie
3	Valley Hay Co.	Van Klaveren, A.
4	Van Beek Dairy Inc.	Van Klaveren, Arie
5	Van Canneyt Dairy	Van Klaveren, Wilhelmina
6	Van Canneyt, Maurice	Van Klaveren, William
7	Van Canneyt, Wilmer	Van Leeuwen, Arie C.
8	Van Dam, Bas	Van Leeuwen, Arie C.
9	Van Dam, Isabelle	Van Leeuwen, Arlan
10	Van Dam, Nellie	Van Leeuwen, Clara G.
11	Van Den Berg, Gertrude	Van Leeuwen, Cornelia L.
12	Van Den Berg, Joyce	Van Leeuwen, Harriet
13	Van Den Berg, Marinus	Van Leeuwen, Jack
14	Van Den Berg, Marvin	Van Leeuwen, John
15	Van Der Linden, Ardith	Van Leeuwen, Letie
16	Van Der Linden, John	Van Leeuwen, Margie
17	Van Der Linden, Stanley	Van Leeuwen, Paul
18	Van Der Veen, Kenneth	Van Leeuwen, William A.
19	Van Diest, Anna T.	Van Ravenswaay, Donald
20	Van Diest, Cornelius	Van Ryn Dairy
21	Van Diest, Ernest	Van Ryn, Dick
22	Van Diest, Rena	Van Surksum, Anthonetta
23	Van Dyk, Bart	Van Surksum, John
24	Van Dyk, Jeanette	Van Veen, John
25	Van Foeken, Martha	Van Vliet, Effie
26	Van Foeken, William	Van Vliet, Hendrika
27	Van Hofwegan, Steve	Van Vliet, Hugo
28	Van Hofwegen, Adrian A.	Van Vliet, Klaas

1	Vande Witte, George	Vander Laan, Katie
2	Vanden Berge, Gertie	Vander Laan, Martin Jr.
3	Vanden Berge, Gertie	Vander Laan, Tillie
4	Vanden Berge, Jack	Vander Leest, Anna
5	Vanden Berge, Jake	Vander Leest, Ann
6	Vanden Brink, Stanley	Vander Meer, Alice
7	Vander Dussen, Agnes	Vander Meer, Dick
8	Vander Dussen, Cor	Vander Poel, Hank
9	Vander Dussen, Cornelius	Vander Poel, Pete
10	Vander Dussen, Edward	Vander Pol, Irene
11	Vander Dussen, Geraldine Marie	Vander Pol, Margie
12	Vander Dussen, James	Vander Pol, Marines
13	Vander Dussen, John	Vander Pol, William P.
14	Vander Dussen, Nelvina	Vander Schaaf, Earl
15	Vander Dussen, Rene	Vander Schaaf, Elizabeth
16	Vander Dussen, Sybrand Jr.	Vander Schaaf, Henrietta
17	Vander Dussen, Sybrand Sr.	Vander Schaaf, John
18	Vander Dussen Trustees	Vander Schaaf, Ted
19	Vander Eyk, Case Jr.	Vander Stelt, Catherine
20	Vander Eyk, Case Sr.	Vander Stelt, Clarence
21	Vander Feer, Peter	Vander Tuig, Arlene
22	Vander Feer, Rieka	Vander Tuig, Sylvester
23	Vander Laan, Ann	Vander Veen, Joe A.
24	Vander Laan, Ben	Vandervlag, Robert
25	Vander Laan, Bill	Vander Zwan, Peter
26	Vander Laan, Corrie	Vanderford, Betty W.
27	Vander Laan, Henry	Vanderford, Claud R.
28	Vander Laan, James	Vanderham, Adrian

1	Vanderham, Cornelius	Vestal, J. Howard
2	Vanderham, Cornelius P.	Visser, Gerrit
3	Vanderham, Cory	Visser, Grace
4	Vanderham, E. Jane	Visser, Henry
5	Vanderham, Marian	Visser, Jess
6	Vanderham, Martin	Visser, Louie
7	Vanderham, Pete C.	Visser, Neil
8	Vanderham, Wilma	Visser, Sam
9	Vasquez, Eleanor	Visser, Stanley
10	Veenendaal, Evert	Visser, Tony D.
11	Veenendaal, John H.	Visser, Walter G.
12	Veiga, Dominick Sr.	Von Der Ahe, Fredric T.
13	Verbree, Jack	Von Euw, George
14	Verbree, Tillie	Von Euw, Marjorie
15	Verger, Bert	Von Lusk, a limited partnership
16	Verger, Betty	Voortman, Anna Marie
17	Verhoeven, Leona	Voortman, Edward
18	Verhoeven, Martin	Voortman, Edwin J.
19	Verhoeven, Wesley	Voortman, Gertrude Dena
20	Vermeer, Dick	Wagner, Richard H.
21	Vermeer, Jantina	Walker, Carole R.
22	Vernola Ranch	Walker, Donald E.
23	Vernola, Anthonietta	Walker, Wallace W.
24	Vernola, Anthony	Wardle, Donald M.
25	Vernola, Frank	Warner, Dillon B.
26	Vernola, Mary Ann	Warner, Minnie
27	Vernola, Pat F.	Wassenaar, Peter W.
28	Vestal, Frances Lorraine	Waters, Michael

1	Weeda, Adriana	Wiersma, Jake
2	Weeda, Daniel	Wiersma, Otto
3	Weeks, O. L.	Wiersma, Pete
4	Weeks, Verona E.	Winchell, Verne H., Trustee
5	Weidman, Maurice	Wind, Frank
6	Weidman, Virginia	Wind, Fred
7	Weiland, Adaline I.	Wind, Hilda
8	Weiland, Peter J.	Wind, Johanna
9	Wesselink, Jules	Woo, Frank
10	West, Katharine R.	Woo, Sem Gee
11	West, Russel	Wybenga, Clarence
12	West, Sharon Ann	Wybenga, Gus
13	Western Horse Property	Wybenga, Gus K.
14	Westra, Alice	Wybenga, Sylvia
15	Westra, Henry	Wynja, Andy
16	Westra, Hilda	Wynja, Iona F.
17	Westra, Jake J.	Yellis, Mildred
18	Weststeyn, Freida	Yellis, Thomas E.
19	Weststeyn, Pete	Ykema-Harmsen Dairy
20	Whitehurst, Louis G.	Ykema, Floris
21	Whitehurst, Pearl L.	Ykema, Harriet
22	Whitmore, David L.	Yokley, Betty Jo
23	Whitmore, Mary A.	Yokley, Darrell A.
24	Whitney, Adolph M.	Zak, Zan
25	Wiersema, Harm	Zivelonghi, George
26	Wiersema, Harry	Zivelonghi, Margaret
27	Wiersma, Ellen H.	Zwaagstra, Jake
		Zwaagstra, Jessie M.
28	Wiersma, Gladys J.	Zwart, Case

NON-PRODUCER WATER DISTRICTS

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- Chino Basin Municipal Water District
- Chino Basin Water Conservation District
- Pomona Valley Municipal Water District
- Western Municipal Water District of Riverside County

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DEFAULTING OVERLYING AGRICULTURAL PRODUCERS

1		
2	Cheryl L. Bain	Roy W. Lantis
3	Warren Bain	Sharon I. Lantis
4	John M. Barcelona	Frank Lorenz
5	Letty Bassler	Dagney H. MacDonald
6	John Brazil	Frank E. Martin
7	John S. Briano	Ruth C. Martin
8	Lupe Briano	Connie S. Mello
9	Paul A. Briano	Naldiro J. Mello
10	Tillie Briano	Felice Miller
11	Arnie B. Carlson	Ted Miller
12	John Henry Fikse	Masao Nerio
13	Phyllis S. Fikse	Tom K. Nerio
14	Lewellyn Flory	Toyo Nerio
15	Mary I. Flory	Yuriko Nerio
16	L. H. Glazer	Harold L. Rees
17	Dorothy Goodman	Alden G. Rose
18	Sidney D. Goodman	Claude Rouleau, Jr.
19	Frank Grossi	Patricia M. Rouleau
20	Harada Brothers	Schultz Enterprises
21	Ellen Hettinga	Albert Shaw
22	Hein Hettinga	Lila Shaw
23	Dick Hofstra, Jr.	Cathy M. Stewart
24	Benjamin M. Hughey	Marvin C. Stewart
25	Frieda L. Hughey	Betty Ann Stone
26	Guillaume Indart	John B. Stone
27	Ellwood B. Johnston, Trustee	Vantoll Cattle Co., Inc.
28	Perry Kruckenberg, Jr.	Catherine Verburg

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- 1 Martin Verburg
- 2 Donna Vincent
- 3 Larry Vincent
- 4 Cliff Wolfe & Associates
- 5 Ada M. Woll
- 6 Zarubica Co.
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EXHIBIT "D"

OVERLYING NON-AGRICULTURAL RIGHTS

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<u>Party</u>	<u>Total Overlying Non-Agricultural Rights (Acre Feet)</u>	<u>Share of Safe Yield (Acre Feet)</u>
Ameron Steel Producers, Inc.	125	97.858
County of San Bernardino	171	133.870
Conrock Company	406	317.844
Kaiser Steel Corporation	3,743	2,930.274
Red Star Fertilizer	20	15.657
Southern California Edison Co.	1,255	982.499
Space Center, Mira Loma	133	104.121
Southern Service Co., dba		
Blue Seal Linen	24	18.789
Sunkist, Orange Products Division	2,393	1,873.402
Carlsberg Mobile Home Properties,		
Ltd. '73	593	464.240
Union Carbide Corporation	546	427.446
Quaker Chemical Co.	<u>0</u>	<u>0</u>
Totals	9,409	7,366.000

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EXHIBIT "E"
APPROPRIATIVE RIGHTS

<u>Party</u>	<u>Appropriative Right (Acre Feet)</u>	<u>Share of Initial Operating Safe Yield (Acre Feet)</u>	<u>Share of Operating Safe Yield (Percent)</u>
City of Chino	5,271.7	3,670.067	6.693
City of Norco	289.5	201.545	0.368
City of Ontario	16,337.4	11,373.816	20.742
City of Pomona	16,110.5	11,215.852	20.454
City of Upland	4,097.2	2,852.401	5.202
Cucamonga County Water District	4,431.0	3,084.786	5.626
Jurupa Community Ser- vices District	1,104.1	768.655	1.402
Monte Vista County Water District	5,958.7	4,148.344	7.565
West San Bernardino County Water District	925.5	644.317	1.175
Etiwanda Water Company	768.0	534.668	0.975
Felspar Gardens Mutual Water Company	68.3	47.549	0.087
Fontana Union Water Co.	9,188.3	6,396.736	11.666
Marygold Mutual Water Co.	941.3	655.317	1.195
Mira Loma Water Co.	1,116.0	776.940	1.417
Monta Vista Irr. Co.	972.1	676.759	1.234
Mutual Water Company of Glen Avon Heights	672.2	467.974	0.853
Park Water Company	236.1	164.369	0.300
Pomona Valley Water Co.	3,106.3	2,162.553	3.944
San Antonio Water Co.	2,164.5	1,506.888	2.748
Santa Ana River Water Company	1,869.3	1,301.374	2.373
Southern California Water Company	1,774.5	1,235.376	2.253
West End Consolidated Water Company	<u>1,361.3</u>	<u>947.714</u>	<u>1.728</u>
TOTAL	78,763.8	54,834.000	100.000

EXHIBIT "F"
OVERLYING (AGRICULTURAL) POOL
POOLING PLAN

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3 1. Membership in Pool. The State of California and all pro-
4 ducers listed in Exhibit "C" shall be the initial members of this
5 pool, which shall include all producers of water for overlying
6 uses other than industrial or commercial purposes.

7 2. Pool Meetings. The members of the pool shall meet
8 annually, in person or by proxy, at a place and time to be desig-
9 nated by Watermaster for purposes of electing members of the Pool
10 Committee and conducting any other business of the pool. Special
11 meetings of the membership of the pool may be called and held as
12 provided in the rules of the pool.

13 3. Voting. All voting at meetings of pool members shall be
14 on the basis of one vote for each 100 acre feet or any portion
15 thereof of production from Chino Basin during the preceding year,
16 as shown by the records of Watermaster.

17 4. Pool Committee. The Pool Committee for this pool shall
18 consist of not less than nine (9) representatives selected at
19 large by members of the pool. The exact number of members of the
20 Pool Committee in any year shall be as determined by majority vote
21 of the voting power of members of the pool in attendance at the
22 annual pool meeting. Each member of the Pool Committee shall have
23 one vote and shall serve for a two-year term. The members first
24 elected shall classify themselves by lot so that approximately
25 one-half serve an initial one-year term. Vacancies during any
26 term shall be filled by a majority of the remaining members of the
27 Pool Committee.

28 5. Advisory Committee Representatives. The number of

1 representatives of the Pool Committee on the Advisory Committee
2 shall be as provided in the rules of the pool from time to time
3 but not exceeding ten (10). The voting power of the pool on the
4 Advisory Committee shall be apportioned and exercised as deter-
5 mined from time to time by the Pool Committee.

6 6. Replenishment Obligation. The pool shall provide funds
7 for replenishment of any production by persons other than members
8 of the Overlying (Non-agricultural) Pool or Appropriator Pool, in
9 excess of the pool's share of Safe Yield. During the first five
10 (5) years of operations of the Physical Solution, reasonable
11 efforts shall be made by the Pool Committee to equalize annual
12 assessments.

13 7. Assessments. All assessments in this pool (whether for
14 replenishment water cost or for pool administration or the allo-
15 cated share of Watermaster administration) shall be in an amount
16 uniformly applicable to all production in the pool during the
17 preceding year or calendar quarter. Provided, however, that the
18 Agricultural Pool Committee, may recommend to the Court modifica-
19 tion of the method of assessing pool members, inter se, if the
20 same is necessary to attain legitimate basin management objectives,
21 including water conservation and avoidance of undesirable socio-
22 economic consequences. Any such modification shall be initiated
23 and ratified by one of the following methods:

24 (a) Excess Production. In the event total pool
25 production exceeds 100,000 acre feet in any year, the Pool
26 Committee shall call and hold a meeting, after notice to all
27 pool members, to consider remedial modification of the
28 assessment formula.

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(b) Producer Petition. At any time after the fifth full year of operation under the Physical Solution, a petition by ten percent (10%) of the voting power or membership of the Pool shall compel the holding of a noticed meeting to consider revision of said formula of assessment for replenishment water.

In either event, a majority action of the voting power in attendance at such pool members' meeting shall be binding on the Pool Committee.

8. Rules. The Pool Committee shall adopt rules for conducting meetings and affairs of the committee and for administering its program and in amplification of the provisions, but not inconsistent with, this pooling plan.

1 EXHIBIT "G"
2 OVERLYING (NON-AGRICULTURAL) POOL
3 POOLING PLAN

4 1. Membership in Pool. The initial members of the pool,
5 together with the decreed share of the Safe Yield of each, are
6 listed in Exhibit "D". Said pool includes producers of water for
7 overlying industrial or commercial (non-agricultural) purposes, or
8 such producers within the Pool who may hereafter take water pur-
9 suant to Paragraph 8 hereof.

10 2. Pool Committee. The Pool Committee for this pool shall
11 consist of one representative designated by each member of the
12 pool. Voting on the committee shall be on the basis of one vote
13 for each member, unless a volume vote is demanded, in which case
14 votes shall be allocated as follows:

15 The volume voting power on the Pool Committee shall
16 be 1,484 votes. Of these, 742 votes shall be allocated on
17 the basis of one vote for each ten (10) acre feet or fraction
18 thereof of decreed shares in Safe Yield. (See Exhibit "D".)
19 The remaining 742 votes shall be allocated proportionally
20 on the basis of assessments paid to Watermaster during the
21 preceding year.*

22 3. Advisory Committee Representatives. At least three (3)
23 members of the Pool Committee shall be designated by said committee
24 to serve on the Advisory Committee. The exact number of such
25 representatives at any time shall be as determined by the Pool
26 Committee. The voting power of the pool shall be exercised in the

27 *Or production assessments paid under Water Code Section
28 72140 et seq., as to years prior to the second year of operation
under the Physical Solution hereunder.

1 Advisory Committee as a unit, based upon the vote of a majority of
2 said representatives.

3 4. Replenishment Obligation. The pool shall provide funds
4 for replenishment of any production in excess of the pool's share
5 of Safe Yield in the preceding year.

6 5. Assessment. Each member of this pool shall pay an assess-
7 ment equal to the cost of replenishment water times the number of
8 acre feet of production by such producer during the preceding year
9 in excess of (a) his decreed share of the Safe Yield, plus (b) any
10 carry-over credit under Paragraph 7 hereof. In addition, the cost
11 of the allocated share of Watermaster administration expense shall
12 be recovered on an equal assessment against each acre foot of
13 production in the pool during such preceding fiscal year or calen-
14 dar quarter; and in the case of Pool members who take substitute
15 ground water as set forth in Paragraph 8 hereof, such producer
16 shall be liable for its share of administration assessment, as if
17 the water so taken were produced, up to the limit of its decreed
18 share of Safe Yield.

19 6. Assignment. Rights herein decreed are appurtenant to the
20 land and are only assignable with the land for overlying use
21 thereon; provided, however, that any appropriator who may, directly
22 or indirectly, undertake to provide water service to such overlying
23 lands may, by an appropriate agency agreement on a form approved by
24 Watermaster, exercise said overlying right to the extent, but only
25 to the extent necessary to provide water service to said overlying
26 lands.

27 7. Carry-over. Any member of the pool who produces less than
28 its assigned water share of Safe Yield may carry such unexercised

1 right forward for exercise in subsequent years. The first water
2 produced during any such subsequent year shall be deemed to be an
3 exercise of such carry-over right. In the event the aggregate
4 carry-over by any pool member exceeds its share of Safe Yield, such
5 member shall, as a condition of preserving such surplus carry-over,
6 execute a storage agreement with Watermaster.

7 8. Substitute Supplies. To the extent that any Pool member,
8 at the request of Watermaster and with the consent of the Advisory
9 Committee, takes substitute surface water in lieu of producing
10 ground water otherwise subject to production as an allocated share
11 of Safe Yield, said party shall nonetheless remain a member of this
12 Pool.

13 9. Rules. The Pool Committee shall adopt rules for adminis-
14 tering its program and in amplification of the provisions, but not
15 inconsistent with, this pooling plan.
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EXHIBIT "H"
APPROPRIATIVE POOL
POOLING PLAN

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3 1. Qualification for Pool. Any city, district or other
4 public entity and public utility -- either regulated under Public
5 Utilities Commission jurisdiction, or exempt therefrom as a non-
6 profit mutual water company (other than those assigned to the
7 Overlying [Agricultural] Pool) -- shall be a member of this pool.
8 All initial members of the pool are listed in Exhibit "E", together
9 with their respective appropriative rights and acre foot allocation
10 and percentage shares of the initial and subsequent Operating Safe
11 Yield.

12 2. Pool Committee. The Pool Committee shall consist of one
13 (1) representative appointed by each member of the Pool.

14 3. Voting. The total voting power on the Pool Committee
15 shall be 1,000 votes. Of these, 500 votes shall be allocated in
16 proportion to decreed percentage shares in Operating Safe Yield.
17 The remaining 500 votes shall be allocated proportionally on the
18 basis of assessments paid to Watermaster during the preceding
19 year.* Routine business of the Pool Committee may be conducted on
20 the basis of one vote per member, but upon demand of any member a
21 weighted vote shall be taken. Affirmative action of the Committee
22 shall require a majority of the voting power of members in attend-
23 ance, provided that it includes concurrence by at least one-third
24 of its total members.

25 4. Advisory Committee Representatives. Ten (10) members of
26

27 *Or production assessments paid under Water Code Section 72140
28 et seq., as to years prior to the second year of operation under
the Physical Solution hereunder.

1 the Pool Committee shall be designated to represent this pool on
2 the Advisory Committee. Each major appropriator, i.e., the owner
3 of an adjudicated appropriative right in excess of 3,000 acre feet,
4 shall be entitled to one representative. The remaining members
5 representing the Appropriative Pool on the Advisory Committee shall
6 be elected at large by the remaining members of the pool. The
7 voting power of the Appropriative Pool on the Advisory Committee
8 shall be apportioned between the major appropriator representatives
9 in proportion to their respective voting power in the Pool Com-
10 mittee. The remaining two representatives shall exercise equally
11 the voting power proportional to the Pool Committee voting power
12 of all remaining appropriators; provided, however, that if any
13 representative fails to attend an Advisory Committee meeting, the
14 voting power of that representative shall be allocated among the
15 representatives of the Appropriator Pool in attendance in the same
16 proportion as their own respective voting powers.

17 5. Replenishment Obligation. The pool shall provide funds
18 for purchase of replenishment water to replace any production by
19 the pool in excess of Operating Safe Yield during the preceding
20 year.

21 6. Administrative Assessment. Costs of administration of
22 this pool and its share of general Watermaster expense shall be
23 recovered by a uniform assessment applicable to all production
24 during the preceding year.

25 7. Replenishment Assessment. The cost of replenishment water
26 required to replace production from Chino Basin in excess of
27 Operating Safe Yield in the preceding year shall be allocated and
28 recovered as follows:

1 (a) For production, other than for increased export,
2 within CBMWD or WMWD:

3 (1) Gross Assessment. 15% of such replenishment
4 water costs shall be recovered by a uniform assessment
5 against all production of each appropriator producing in
6 said area during the preceding year.

7 (2) Net Assessment. The remaining 85% of said
8 costs shall be recovered by a uniform assessment on each
9 acre foot of production from said area by each such
10 appropriator in excess of his allocated share of Oper-
11 ating Safe Yield during said preceding year.

12 (b) For production which is exported for use outside
13 Chino Basin in excess of maximum export in any year through
14 1976, such increased export production shall be assessed
15 against the exporting appropriator in an amount sufficient to
16 purchase replenishment water from CBMWD or WMWD in the amount
17 of such excess.

18 (c) For production within SBVMWD or PVMWD:

19 By an assessment on all production in excess of
20 an appropriator's share of Operating Safe Yield in an
21 amount sufficient to purchase replenishment water through
22 SBVMWD or MWD in the amount of such excess.

23 8. Socio-Economic Impact Review. The parties have conducted
24 certain preliminary socio-economic impact studies. Further and
25 more detailed socio-economic impact studies of the assessment
26 formula and its possible modification shall be undertaken for the
27 Appropriator Pool by Watermaster no later than ten (10) years from
28 the effective date of this Physical Solution, or whenever total

1 production by this pool has increased by 30% or more over the
2 decreed appropriative rights, whichever is first.

3 9. Facilities Equity Assessment. Watermaster may, upon
4 recommendation of the Pool Committee, institute proceedings for
5 levy and collection of a Facilities Equity Assessment for the
6 purposes and in accordance with the procedures which follow:

7 (a) Implementing Circumstances. There exist several
8 sources of supplemental water available to Chino Basin, each
9 of which has a differential cost and quantity available. The
10 optimum management of the entire Chino Basin water resource
11 favors the maximum use of the lowest cost supplemental water
12 to balance the supplies of the Basin, in accordance with the
13 Physical Solution. The varying sources of supplemental water
14 include importations from MWD and SBVMWD, importation of
15 surface and ground water supplies from other basins in the
16 immediate vicinity of Chino Basin, and utilization of re-
17 claimed water. In order to fully utilize any of such alter-
18 nate sources of supply, it will be essential for particular
19 appropriators having access to one or more of such supplies to
20 have invested, or in the future to invest, directly or in-
21 directly, substantial funds in facilities to obtain and
22 deliver such water to an appropriate point of use. To the
23 extent that the use of less expensive alternate sources of
24 supplemental water can be maximized by the inducement of a
25 Facilities Equity Assessment, as herein provided, it is to the
26 long-term benefit of the entire basin that such assessment be
27 authorized and levied by Watermaster.

28 (b) Study and Report. At the request of the Pool

1 Committee, Watermaster shall undertake a survey study of the
2 utilization of alternate supplemental supplies by members of
3 the Appropriative Pool which would not otherwise be utilized
4 and shall prepare a report setting forth the amount of such
5 alternative supplies being currently utilized, the amount of
6 such supplies which could be generated by activity within the
7 pool, and the level of cost required to increase such uses and
8 to optimize the total supplies available to the basin. Said
9 report shall contain an analysis and recommendation for the
10 levy of a necessary Facilities Equity Assessment to accomplish
11 said purpose.

12 (c) Hearing. If the said report by Watermaster contains
13 a recommendation for imposition of a Facilities Equity Assess-
14 ment, and the Pool Committee so requests, Watermaster shall
15 notice and hold a hearing not less than 60 days after dis-
16 tribution of a copy of said report to each member of the pool,
17 together with a notice of the hearing date. At such hearing,
18 evidence shall be taken with regard to the necessity and
19 propriety of the levy of a Facilities Equity Assessment and
20 full findings and decision shall be issued by Watermaster.

21 (d) Operation of Assessment. If Watermaster determines
22 that it is appropriate that a Facilities Equity Assessment be
23 levied in a particular year, the amount of additional supple-
24 mental supplies which should be generated by such assessment
25 shall be estimated. The cost of obtaining such supplies,
26 taking into consideration the investment in necessary
27 facilities shall then be determined and spread equitably among
28 the producers within the pool in a manner so that those

1 producers not providing such additional lower cost supple-
2 mental water, and to whom a financial benefit will result, may
3 bear a proportionate share of said costs, not exceeding said
4 benefit; provided that any producer furnishing such supple-
5 mental water shall not thereby have its average cost of water
6 in such year reduced below such producer's average cost of
7 pumping from the Basin. In so doing, Watermaster shall
8 establish a percentage of the total production by each party
9 which may be produced without imposition of a Facilities
10 Equity Assessment. Any member of the pool producing more
11 water than said percentage shall pay such Facilities Equity
12 Assessment on any such excess production. Watermaster is
13 authorized to transmit and pay the proceeds of such Facilities
14 Equity Assessment to those producers who take less than their
15 share of Basin water by reason of furnishing a higher per-
16 centage of their requirements through use of supplemental
17 water.

18 10. Unallocated Safe Yield Water. To the extent that, in any
19 five years, any portion of the share of Safe Yield allocated to
20 the Overlying (Agricultural) Pool is not produced, such water shall
21 be available for reallocation to members of the Appropriative Pool,
22 as follows:

23 (a) Priorities. Such allocation shall be made in the
24 following sequence:

25 (1) to supplement, in the particular year, water
26 available from Operating Safe Yield to compensate for any
27 reduction in the Safe Yield by reason of recalculation
28 thereof after the tenth year of operation hereunder.

1 (2) pursuant to conversion claims as defined in
2 Subparagraph (b) hereof.

3 (3) as a supplement to Operating Safe Yield,
4 without regard to reductions in Safe Yield.

5 (b) Conversion Claims. The following procedures may be
6 utilized by any appropriator:

7 (1) Record of Land Use Conversion. Any appro-
8 priator who undertakes, directly or indirectly, dur-
9 ing any year, to permanently provide water service to
10 lands which during the immediate preceding five (5)
11 consecutive years was devoted to irrigated agriculture
12 may report such change in land use or water service to
13 Watermaster. Watermaster shall thereupon verify such
14 change in water service and shall maintain a record and
15 account for each appropriator of the total acreage
16 involved and the average annual water use during said
17 five-year period.

18 (2) Establishment of Allocation Percentage. In
19 any year in which unallocated Safe Yield water from
20 the Overlying (Agricultural) Pool is available for such
21 conversion claims, Watermaster shall establish allocable
22 percentages for each appropriator based upon the total
23 of such converted acreage recorded to each such appro-
24 priator's account.

25 (3) Allocation and Notice. Watermaster shall
26 thereafter apply the allocated percentage to the total
27 unallocated Safe Yield water available for special
28 allocation to derive the amount thereof allocable to

1 each appropriator; provided that in no event shall the
2 allocation to any appropriator as a result of such
3 conversion claim exceed 50% of the average annual amount
4 of water actually applied to the areas converted by such
5 appropriator prior to such conversion. Any excess water
6 by reason of such limitation on any appropriator's right
7 shall be added to Operating Safe Yield. Notice of such
8 special allocation shall be given to each appropriator
9 and shall be treated for purposes of this Physical
10 Solution as an addition to such appropriator's share of
11 the Operating Safe Yield for the particular year only.

12 (4) Administrative Costs. Any costs of Water-
13 master attributable to administration of such special
14 allocations and conversion claims shall be assessed
15 against appropriators participating in such reporting.

16 11. In Lieu Procedures. There are, or may develop, certain
17 areas within Chino Basin where good management practices dictate
18 that recharge of the basin be accomplished, to the extent prac-
19 tical, by taking surface supplies of supplemental water in lieu of
20 ground water otherwise subject to production as an allocated share
21 of Operating Safe Yield.

22 (a) Method of Operation. Any appropriator producing
23 water within such designated in lieu area who is willing to
24 abstain for any reason from producing any portion of such
25 producer's share of Operating Safe Yield in any year may
26 offer such unpumped water to Watermaster. In such event,
27 Watermaster shall purchase said water in place, in lieu of
28 spreading replenishment water, which is otherwise required to

1 make up for over production. The purchase price for in lieu
2 water shall be the lesser of:

3 (1) Watermaster's current cost of replenishment
4 water, whether or not replenishment water is currently
5 then obtainable, plus the cost of spreading; or

6 (2) The cost of supplemental surface supplies to
7 the appropriator, less

8 a. said appropriator's average cost of
9 ground water production, and

10 b. the applicable production assessment
11 were the water produced.

12 Where supplemental surface supplies consist of MWD or
13 SBVMWD supplies, the cost of treated, filtered State
14 water from such source shall be deemed the cost of
15 supplemental surface supplies to the appropriator for
16 purposes of such calculation.

17 In any given year in which payments may be made pursuant to
18 a Facilities Equity Assessment, as to any given quantity of
19 water the party will be entitled to payment under this
20 section or pursuant to the Facilities Equity Assessment, as
21 the party elects, but not under both.

22 (b) Designation of In Lieu Areas. The first in lieu
23 area is designated as the "In Lieu Area No. 1" and consists
24 of an area wherein nitrate levels in the ground water gen-
25 erally exceed 45 mg/l, and is shown on Exhibit "J" hereto.
26 Other in lieu areas may be designated by subsequent order of
27 Watermaster upon recommendation or approval by Advisory
28 Committee. Said in lieu areas may be enlarged, reduced or

1 eliminated by subsequent orders; provided, however, that
2 designation of In Lieu Areas shall be for a minimum fixed
3 term sufficient to justify necessary capital investment. In
4 Lieu Area No. 1 may be enlarged, reduced or eliminated in
5 the same manner, except that any reduction of its original
6 size or elimination thereof shall require the prior order of
7 Court.

8 12. Carry-over. Any appropriator who produces less than his
9 assigned share of Operating Safe Yield may carry such unexercised
10 right forward for exercise in subsequent years. The first water
11 produced during any such subsequent year shall be deemed to be an
12 exercise of such carry-over right. In the event the aggregate
13 carry-over by any appropriator exceeds its share of Operating Safe
14 Yield, such appropriator shall, as a condition of preserving such
15 surplus carry-over, execute a storage agreement with Watermaster.
16 Such appropriator shall have the option to pay the gross assess-
17 ment applicable to such carry-over in the year in which it accrued.

18 13. Assignment, Transfer and Lease. Appropriative rights,
19 and corresponding shares of Operating Safe Yield, may be assigned
20 or may be leased or licensed to another appropriator for exercise
21 in a given year. Any transfer, lease or license shall be ineffec-
22 tive until written notice thereof is furnished to and approved as
23 to form by Watermaster, in compliance with applicable Watermaster
24 rules. Watermaster shall not approve transfer, lease or license of
25 a right for exercise in an area or under conditions where such
26 production would be contrary to sound basin management or detri-
27 mental to the rights or operations of other producers.

28 14. Rules. The Pool Committee shall adopt rules for

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1 administering its program and in amplification of the provisions,
2 but not inconsistent with, this pooling plan.

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EXHIBIT "I"

ENGINEERING APPENDIX

1
2
3 1. Basin Management Parameters. In the process of imple-
4 menting the physical solution for Chino Basin, Watermaster shall
5 consider the following parameters:

6 (a) Pumping Patterns. Chino Basin is a common supply
7 for all persons and agencies utilizing its waters. It is an
8 objective in management of the Basin's waters that no pro-
9 ducer be deprived of access to said waters by reason of
10 unreasonable pumping patterns, nor by regional or localized
11 recharge of replenishment water, insofar as such result may
12 be practically avoided.

13 (b) Water Quality. Maintenance and improvement of
14 water quality is a prime consideration and function of
15 management decisions by Watermaster.

16 (c) Economic Considerations. Financial feasibility,
17 economic impact and the cost and optimum utilization of the
18 Basin's resources and the physical facilities of the parties
19 are objectives and concerns equal in importance to water
20 quantity and quality parameters.

21 2. Operating Safe Yield. Operating Safe Yield in any year
22 shall consist of the Appropriative Pool's share of Safe Yield of
23 the Basin, plus any controlled overdraft of the Basin which
24 Watermaster may authorize. In adopting the Operating Safe Yield
25 for any year, Watermaster shall be limited as follows:

26 (a) Accumulated Overdraft. During the operation of
27 this Judgment and Physical Solution, the overdraft accumu-
28 lated from and after the effective date of the Physical

1 Solution and resulting from an excess of Operating Safe Yield
2 over Safe Yield shall not exceed 200,000 acre feet.

3 (b) Quantitative Limits. In no event shall Operating
4 Safe Yield in any year be less than the Appropriative Pool's
5 share of Safe Yield, nor shall it exceed such share of Safe
6 Yield by more than 10,000 acre feet. The initial Operating
7 Safe Yield is hereby set at 54,834 acre feet per year.

8 Operating Safe Yield shall not be changed upon less than five
9 (5) years' notice by Watermaster.

10 Nothing contained in this paragraph shall be deemed to authorize,
11 directly or indirectly, any modification of the allocation of
12 shares in Safe Yield to the overlying pools, as set forth in
13 Paragraph 44 of the Judgment.

14 3. Ground Water Storage Agreements. Any agreements author-
15 ized by Watermaster for storage of supplemental water in the
16 available ground water storage capacity of Chino Basin shall
17 include, but not be limited to:

18 (a) The quantities and term of the storage right.

19 (b) A statement of the priority or relation of said
20 right, as against overlying or Safe Yield uses, and other
21 storage rights.

22 (c) The procedure for establishing delivery rates,
23 schedules and procedures which may include

24 [1] spreading or injection, or

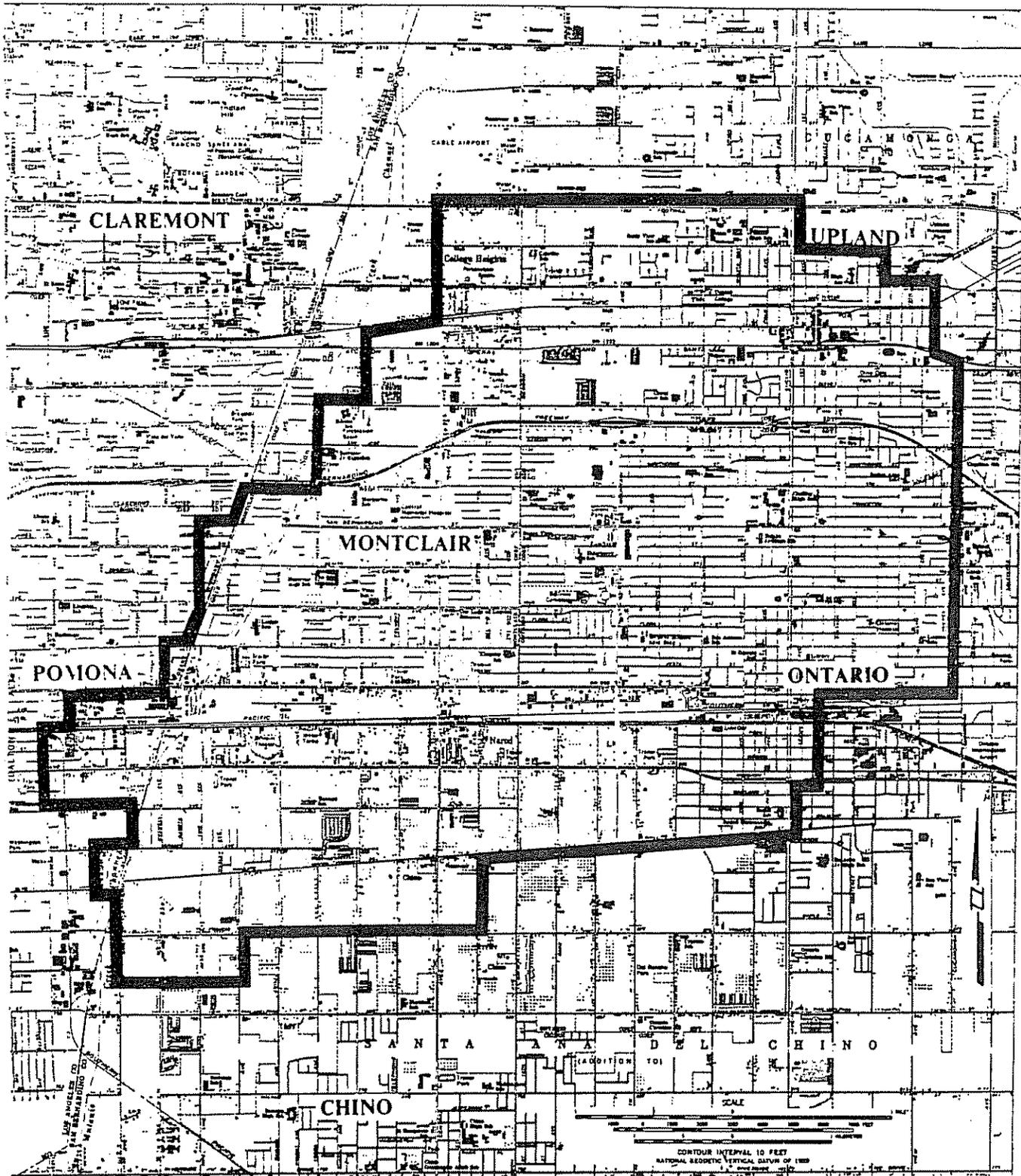
25 [2] in lieu deliveries of supplemental water for
26 direct use.

27 (d) The procedures for calculation of losses and annual
28 accounting for water in storage by Watermaster.

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(e) The procedures for establishment and administration of withdrawal schedules, locations and methods.



**CHINO BASIN
IN LIEU AREA NO. 1**

LEGAL DESCRIPTION

OF CHINO BASIN

Preamble

All of the townships and ranges referred to in the following legal description are the San Bernardino Base and Meridian. Certain designated sections are implied as the System of Government Surveys may be extended where not established. Said sections are identified as follows:

Section 20, T1N, R8W is extended across Rancho Cucamonga;

Section 36, T1N, R8W is extended across the City of Upland;

Sections 2, 3, and 4, T1S, R7W are extended across Rancho Cucamonga;

Section 10, T1S, R8W is extended across the City of Claremont;

Sections 19, 20, 21, 30, 31 and 32, T1S, R8W are extended across the City of Pomona;

Sections 4, 5, and 28, T2S, R8W are extended across Rancho Santa Ana Del Chino;

Sections 15 and 16, T3S, R7W are extended across Rancho La Sierra; and

Sections 17 and 20, T3S, R7W are extended across Rancho El Rincon.

Description

Chino Basin is included within portions of the Counties of San Bernardino, Riverside and Los Angeles, State of California, bounded by a continuous line described as follows:

BEGINNING at the Southwest corner of Lot 241 as shown on Map of Ontario Colony Lands, recorded in Map Book 11, page 6, Office of the County Recorder of San Bernardino County, said corner being the Point of Beginning;

1. Thence Southeasterly to the Southeast corner

of Lot 419 of said Ontario Colony Lands;

2. Thence Southeasterly to a point 1300 feet North of the South line and 1300 feet East of the West line of Section 4, T1S, R7W;

3. Thence Easterly to a point on the East line of Section 4, 1800 feet North of the Southeast corner of said Section 4;

4. Thence Easterly to the Southeast corner of the Southwest quarter of the Northeast quarter of Section 3, T1S, R7W;

5. Thence Northeasterly to a point on the North line of Section 2, T1S, R7W, 1400 feet East of the West line of said Section 2;

6. Thence Northeasterly to the Southwest corner of Section 18, T1N, R6W;

7. Thence Northerly to the Northwest corner of said Section 18;

8. Thence Easterly to the Northeast corner of said Section 18;

9. Thence Northerly to the Northwest corner of the Southwest quarter of Section 8, T1N, R6W;

10. Thence Easterly to the Northeast corner of said Southwest quarter of said Section 8;

11. Thence Southerly to the Southeast corner of said Southwest quarter of said Section 8;

12. Thence Easterly to the Northeast corner of Section 17, T1N, R6W;

13. Thence Easterly to the Northeast corner of Section 16, T1N, R6W;

14. Thence Southeasterly to the Northwest corner of the Southeast quarter of Section 15, T1N, R6W;

15. Thence Easterly to the Northeast corner of said Southeast quarter of said Section 15;

16. Thence Southeasterly to the Northwest corner of the Northeast quarter of Section 23, T1N, R6W;

17. Thence Southeasterly to the Northwest corner

of Section 25, T1N, R6W;

18. Thence Southeasterly to the Northwest corner of the Northeast quarter of Section 31, T1N, R5W;

19. Thence Southeasterly to the Northeast corner of the Northwest quarter of Section 5, T1S, R5W;

20. Thence Southeasterly to the Southeast corner of Section 4, T1S, R5W;

21. Thence Southeasterly to the Southeast corner of the Southwest quarter of Section 11, T1S, R5W;

22. Thence Southwesterly to the Southwest corner of Section 14, T1S, R5W;

23. Thence Southwest to the Southwest corner of Section 22, T1S, R5W;

24. Thence Southwesterly to the Southwest corner of the Northeast quarter of Section 6, T2S, R5W;

25. Thence Southeasterly to the Northeast corner of Section 18 T2S, R5W;

26. Thence Southwesterly to the Southwest corner of the Southeast quarter of Section 13, T2S, R6W;

27. Thence Southwesterly to the Southwest corner of the Northeast quarter of Section 26, T2S, R6W;

28. Thence Westerly to the Southwest corner of the Northwest quarter of said Section 26;

29. Thence Northerly to the Northwest corner of said Section 26;

30. Thence Westerly to the Southwest corner of Section 21, T2S, R6W;

31. Thence Southerly to the Southeast corner of Section 29, T2S, R6W;

32. Thence Westerly to the Southeast corner of Section 30, T2S, R6W;

33. Thence Southwesterly to the Southwest corner of Section 36, T 2 S, R 7 W;

34. Thence Southwesterly to the Southeast corner

of Section 3, T3S, R7W;

35. Thence Southwesterly to the Southwest corner of the Northeast quarter of Section 10, T3S, R7W;

36. Thence Southerly to the Northeast corner of the Northwest quarter of Section 15, T3S, R7W;

37. Thence Southwesterly to the Southeast corner of the Northeast quarter of Section 16, T3S, R7W;

38. Thence Southwesterly to the Southwest corner of said Section 16;

39. Thence Southwesterly to the Southwest corner of the Northeast quarter of Section 20, T3S, R7W;

40. Thence Westerly to the Southwest corner of the Northwest quarter of said Section 20;

41. Thence Northerly to the Northwest corner of Section 17, T3S, R7W;

42. Thence Westerly to the Southwest corner of Section 7, T3S, R7W;

43. Thence Northerly to the Southwest corner of Section 6, T3S, R7W;

44. Thence Westerly to the Southwest corner of Section 1, T3S, R8W;

45. Thence Northerly to the Southeast corner of Section 35, T2S, R8W;

46. Thence Northwesterly to the Northwest corner of said Section 35;

47. Thence Northerly to the Southeast corner of Lot 33, as shown on Map of Tract 3193, recorded in Map Book 43, pages 46 and 47, Office of the County Recorder of San Bernardino County;

48. Thence Westerly to the Northwest corner of the Southwest quarter of Section 28, T2S, R8W;

49. Thence Northerly to the Southwest corner of Section 4, T2S, R8W;

50. Thence Westerly to the Southwest corner of Section 5, T2S, R8W;

51. Thence Northerly to the Southwest corner of Section 32, T1S, R8W;

52. Thence Westerly to the Southwest corner of Section 31, T1S, R8W;

53. Thence Northerly to the Southwest corner of Section 30, T1S, R8W;

54. Thence Northeasterly to the Southwest corner of Section 20, T1S, R8W;

55. Thence Northerly to the Northwest corner of the Southwest quarter of the Southwest quarter of said Section 20;

56. Thence Northwesterly to the Northeast corner of the Southeast quarter of the Southeast quarter of the Northwest quarter of Section 19, T1S, R8W;

57. Thence Easterly to the Northwest corner of Section 21, T1S, R8W;

58. Thence Northeasterly to the Southeast corner of the Southwest quarter of the Southwest quarter of Section 10, T1S, R8W;

59. Thence Northeasterly to the Southwest corner of Section 2, T1S, R8W;

60. Thence Northeasterly to the Southeast corner of the Northwest quarter of the Northwest quarter of Section 1, T1S, R8W;

61. Thence Northerly to the Northeast corner of the Northwest quarter of the Northeast quarter of Section 36, T1N, R8W;

62. Thence Northerly to the Southeast corner of Section 24, T1N, R8W;

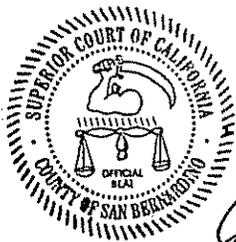
63. Thence Northeasterly to the Southeast corner of the Northwest quarter of the Northwest quarter of Section 20, T1N, R7W; and

64. Thence Southerly to the Point of Beginning.

Sections Included

Said perimeter description includes all or portions of the following Townships, Ranges and Sections of San Bernardino Base and Meridian:

- T1N, R5W - Sections: 30, 31 and 32
- T1N, R6W - Sections: 8, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 and 36
- T1N, R7W - Sections: 19, 20, 24, 25, 26, 29, 30, 31, 32, 35 and 36
- T1N, R8W - Sections: 25 and 36
- T1S, R5W - Sections: 4, 5, 6, 7, 8, 9, 10, 11, 14, 15, 16, 17, 18, 19, 20, 21, 22, 28, 29, 30, 31 and 32.
- T1S, R6W - Sections: 1 through 36, inclusive
- T1S, R7W - Sections: 1 through 36, inclusive
- T1S, R8W - Sections: 1, 2, 10, 11, 12, 13, 14, 15, 16, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35 and 36
- T2S, R5W - Sections: 6, 7 and 18
- T2S, R6W - Sections: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 26, 29, 30 and 31
- T2S, R7W - Sections: 1 through 36, inclusive
- T2S, R8W - Sections: 1, 2, 3, 4, 5, 9, 10, 11, 12, 13, 14, 15, 16, 21, 22, 23, 24, 25, 26, 27, 28, 35 and 36
- T3S, R7W - Sections: 2, 3, 4, 5, 6, 7, 8, 9, 10, 15, 16, 17 and 20
- T3S, R8W - Section: 1.



THE DOCUMENT TO WHICH THIS CERTIFICATION IS ATTACHED IS A FULL, TRUE AND CORRECT COPY OF THE ORIGINAL ON FILE AND OF RECORD IN MY OFFICE.

OCT 29 2002

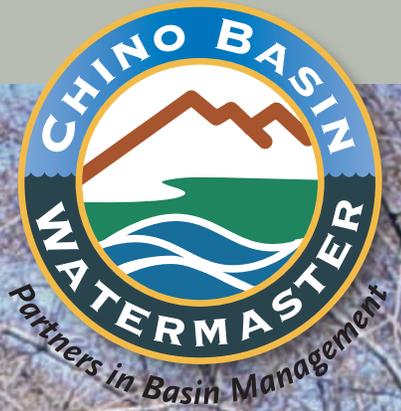
ATTEST
Clerk of the Superior Court of the State of California, in and for the County of San Bernardino

Terry Wittenborn
Deputy

Terry Wittenborn

92 pages

Appendix C2
Chino Basin Water Master's Twenty-Eighth Annual Report



Chino Basin Watermaster
Twenty-Eighth
Annual Report
Fiscal Year 2004-05

Working Together to Maximize the Benefits of Chino Basin

Welcome From the Chief Executive Officer

The Optimum Basin Management Plan is the roadmap that Watermaster follows in carrying out its mission:

“To manage the Chino Groundwater Basin in the most beneficial manner, and to equitably administer and enforce the provisions of the Chino Basin Watermaster Judgment.”

Case No. RCV 51010
(formerly Case No. SCV 164327)

Historic Shift: Developing New Water Supplies

Watermaster made a historic shift last fiscal year, moving from monitoring and analyzing the Basin to developing new water supplies. This was made dramatically evident by the completion of new recharge basins, and by recharging for the first time about 18,000 acre-feet of stormwater in the recharge basins. This is three times greater than the typical recharge in past years. There is more to come: As soon as next year, we expect to recharge 50,000 acre-feet each year in expanded recharge basins, including storm, imported and reclaimed water.

Added to the new supply of recharged stormwater are 15,000 acre-feet of newly treated water supply each year from the desalters.

Managing Effectively Through Cycles of Drought and Flood

Although 2004-05 saw the highest rainfall in the last 100 years, it came during one of the worst periods of local drought ever recorded. This dramatically illustrated the historic cycle of wet and dry years, and the uncertainty of sufficient rainfall each year to meet water demand. Watermaster continues working with its many stakeholders and partners on numerous water supply and water management fronts to ensure that in both dry and wet years there will be adequate water supplies available.

Cooperation is Key

All Watermaster stakeholders moved forward in 2004-05 toward a Peace II accord to solidify the Peace Agreement, and ultimately ensure a vibrant, cooperative organization to meet future challenges. An important new cooperative data sharing agreement was made permanent with Inland Empire Utilities Agency along with new cooperative groundwater monitoring programs.

I was selected as the new Watermaster CEO, effective September 1, 2004. This has been an exciting and challenging year, and I look forward to the continued success of Watermaster with the cooperation of our stakeholders, so that together we can continue protecting, improving and expanding water supply and water quality throughout the Basin.

Kenneth R. Manning,

CEO, Chino Basin Watermaster

Watermaster's Core Responsibilities

Watermaster's role is to actively implement the Optimum Basin Management Plan (OBMP), managing the Basin to protect and increase its water supply and water quality.

To accomplish this, Watermaster brings together the Chino Basin Stakeholders: dozens of public and private entities that pump, treat, buy, sell and/or deliver water in the Basin. Watermaster serves as an effective forum for Basin water stakeholders to resolve current and future water supply and quality issues.

The Five Core Responsibilities of Watermaster:

Maintaining and increasing the water supply. Acquiring and spreading replacement water, and facilitating the storage of supplemental water in the Basin.

Ensuring a fair share of the water. Determining the amount of groundwater each producer is entitled to extract without incurring a replenishment obligation.

Providing cooperative leadership. Developing consensus plans regarding management of the Basin.

Monitoring and increasing the understanding of the Basin. Collecting information on water production, water quality, water levels and other relevant data from producers.

Maintaining and improving water quality. Coordinating and actively participating in programs to restore and preserve the quality of groundwater in the Basin.

Chino Groundwater Basin

Inland Empire's Underground Water Resource

Cooperation: A Key to Success

Because of the strategic location of the Chino Basin, Watermaster exchanges water via the Metropolitan Water District system, and cooperates with many water agencies throughout the region to make regional projects and funding a reality.



Two Trillion Gallons

In 2004-05, over 800 wells pumped more than 164,000 acre-feet of groundwater from the Basin, which has a storage capacity estimated at between five and seven million acre-feet or about two trillion gallons.



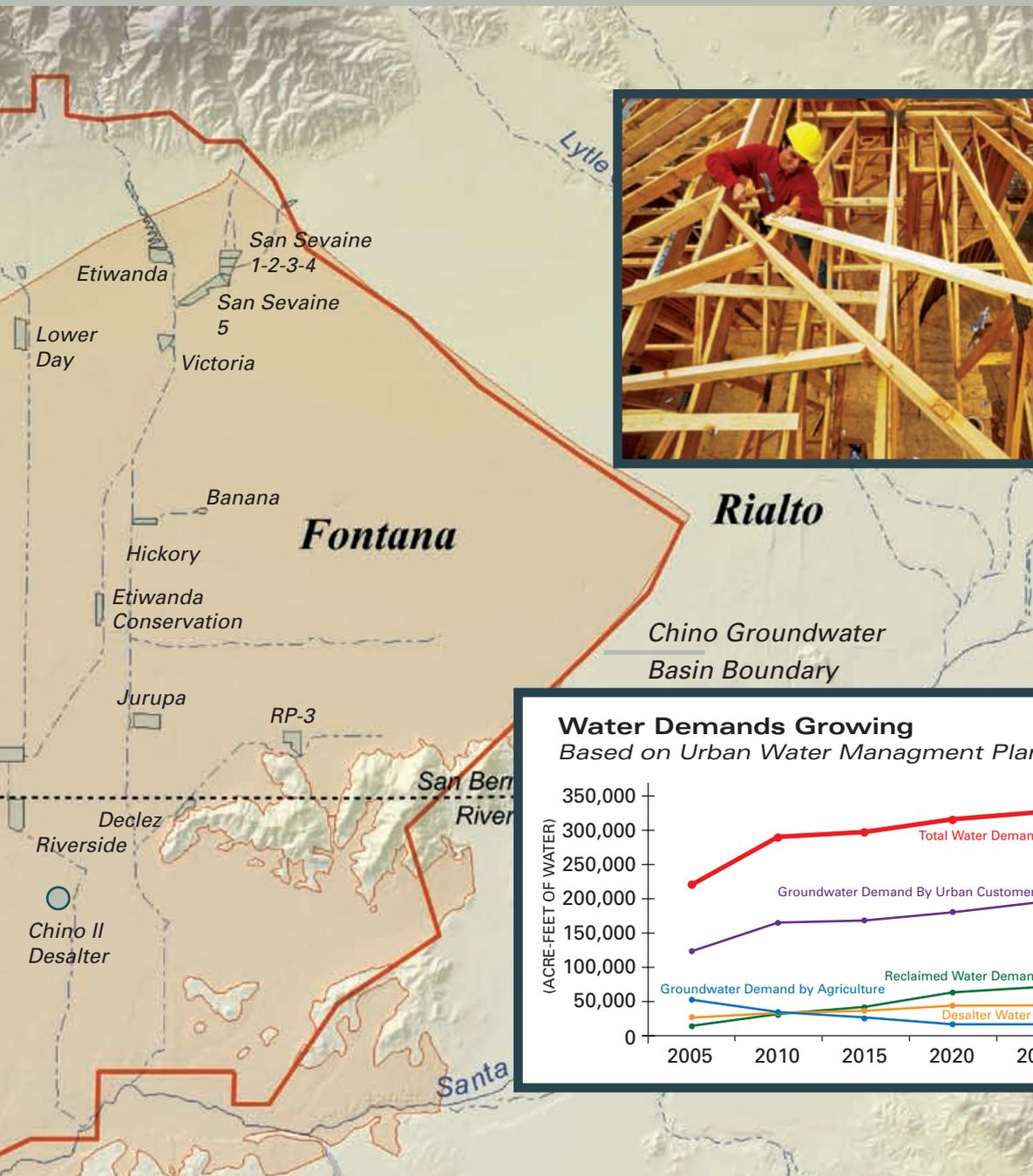
Balanced Use of All Water Sources

To meet demand in a semi-arid region, Watermaster works to integrate use of all available water sources:

- Groundwater
- Imported water
- Desalted water
- Reclaimed water



Following the worst drought in recorded history (13 of the previous 15 years were below average rainfall), 2005 experienced the heaviest rainfall in the last 100 years. The heavy rainfall caused challenges for local communities, but allowed Watermaster to recharge the groundwater basin using recently improved recharge basins, allowing about three times more water to be recharged than in past years.



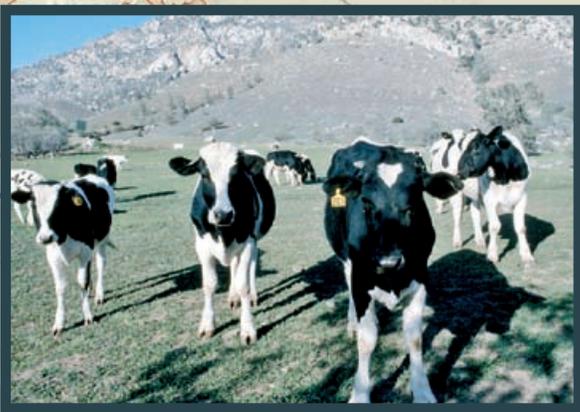
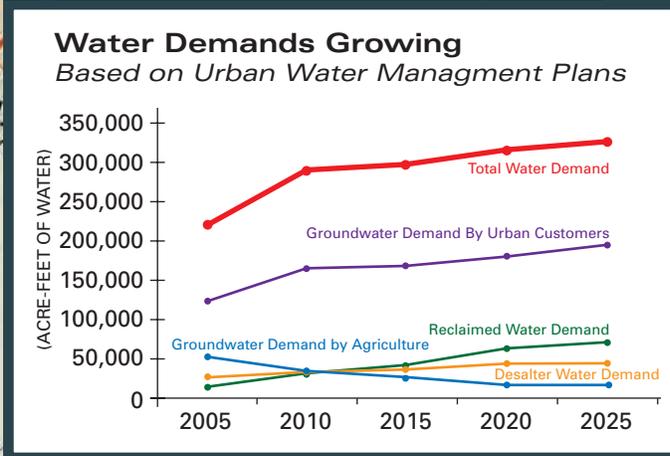
Serving One of the Fastest-Growing Regions in the Nation

Watermaster is looking ahead 25 years to meet the water demands of this

fast-growing region, where about 8,000 new homes were built in 2004-05 and the population is expected to nearly double to about 1.2 million people over the next 15 years.

Besides serving a booming housing market, the Chino Basin also is home to a thriving agricultural industry, including some of the most intensive dairy farming in the state.

This represents a huge replenishment responsibility and requires that Watermaster find places to store additional water in the long-term groundwater basin and to increase the use of reclaimed water.



Optimum Basin Management Plan

The fundamental physical solutions mandated by the OBMP include:

- Providing additional water supplies to meet growth in the Basin.
- Improving water quality. Watermaster identified Basin contamination plumes, and aggressively pursued the parties responsible for groundwater pollution to ensure that they follow through with cleanup reimbursements.
- “Drought proofing” the region.
- Enhancing economic development.
- Improving environmental quality.

Protecting and Improving Water Supply and Quality

The Optimum Basin Management Plan (OBMP) was developed to protect and manage the Chino Basin, and is the result of a 1998 court order. A subsequent “Peace Agreement” signed by all the Basin stakeholders specifies exactly how the OBMP will be implemented.

The OBMP—Nine Inter-Related Elements:

1. **Comprehensive monitoring** of the Basin, including groundwater levels and water quality, providing data for more effective water management.
2. **Comprehensive recharge** of imported, reclaimed and stormwater to maintain and improve groundwater levels, so that more water is available to producers. Watermaster is increasing the number of recharge basins and working to increase their efficiency to meet growing water demand.
3. **Water supply plan for impaired areas**, focusing on the shift of production in the southern portion of the Basin away from agricultural uses toward urban uses. The plan seeks to avoid higher water levels and uncontrolled groundwater losses to the Santa Ana River.
4. **Management Zone 1 strategies** to reduce unacceptable land subsidence and fissuring.
5. **Regional Supplemental Water Program** to improve water quality and increase use of treated, desalted water.
6. **Cooperative programs** with the Regional Water Quality Control Board and other agencies to improve Basin quality and management.
7. **Salt management programs** to develop a more detailed understanding of salt loads in groundwater, develop objectives and define the benefits of salt removal.
8. **Groundwater storage management** to allow for big increases in groundwater storage by local and outside agencies.
9. **Conjunctive use programs** to store excess water in wet years for use in dry years.



Programs for Groundwater Monitoring and Increasing Water Supplies

Use of a Key Well program coupled with increased groundwater recharge and continued implementation of the groundwater conjunctive use programs are aimed at increasing available water supplies. This strategy is designed to meet current and future demands in this fast-growing region. This strategy ultimately will help “drought proof” the Basin, which is subjected to weather cycle extremes, ranging from multiple years of below average rainfall to record rains.

Progress Made in 2004-05 to Monitor and Increase Groundwater Supplies

Programs to monitor groundwater levels and water quality have been reorganized to better support new initiatives. These include such projects as Management Zone 1, Hydraulic Control Monitoring, nitrogen loss, and desalter expansion. Automatic measuring and recording devices are increasingly being used to replace manual sampling. These automatic data loggers lower costs, improve accuracy and provide better data.

Three Active Groundwater Monitoring Programs

1. Semiannual Basin-Wide Monitoring Program

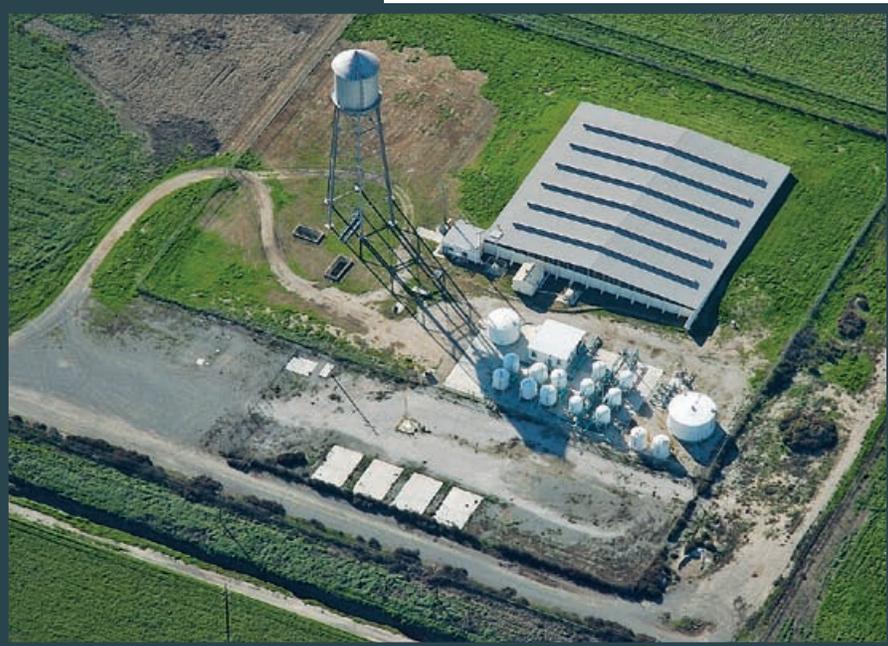
Watermaster manually measures water levels in about 480 agricultural wells twice each year to determine the effects of production on groundwater levels.

2. Intensive Key Well Program

The Key Well program is associated with the desalter activities and the Hydraulic Control Monitoring Program. Launched in 2003-04, the Key Well Program involves about 107 wells. It replaces a more costly and less effective monitoring program involving up to 200 wells.

3. MZ-1 Monitoring Program Transitions to Long-Term Planning

Using a series of standard monitoring wells as well as sophisticated piezometric monitors and infrared satellite imagery, Watermaster has been monitoring the western portion of the Basin. The focus is on looking ahead to a long-range plan to understand and prevent any ground subsidence due to changes in groundwater levels. Related to this are Cooperative Aquifer Stress Tests that measure water production versus groundwater levels, conducted in cooperation with the cities of Chino and Chino Hills.



Programs for Groundwater Monitoring and Increasing Water Supplies (continued)

Watermaster has systematically upgraded its monitoring technology to lower costs, improve data quality and accelerate data analysis.

Refinement of Hydraulic Control Monitoring

Hydraulic Control is a means of protecting water quality and supply by controlling the flow of water between the Chino Groundwater Basin and the Santa Ana River. Because the Chino Basin is tilted, when groundwater levels reach certain levels, rising water flows out of the Basin downgradient toward the River. Hydraulic Control is a major foundation of Basin monitoring and the Peace II Agreement. It also takes advantage of storage opportunities and avoids outflow.

In 2004-05, nine new monitoring wells were installed as part of the piezometric monitoring element of the Hydraulic Control Monitoring Program. The new monitoring wells were needed because existing well locations and well construction are not sufficient to measure the extent of hydraulic control near the desalter well fields. They also were needed because of the loss of agricultural well monitoring caused by the conversion of agriculture to urban land uses.

Monitoring of Recharge Water

Watermaster and the Inland Empire Utilities Agency are designating a number of monitoring wells at recharge basins to monitor the influence of recharge on groundwater levels, as well as the changes in water quality resulting from the recharge of storm, imported and reclaimed waters. At least one monitoring well will be installed downgradient of each recharge facility that receives reclaimed water.



Progress in Increasing Water Supplies

Last year's heavy rainfall was the first opportunity to use improved recharge basins that are designed to capture stormwater. They performed well and overall recharge was almost tripled from 6,000 acre-feet in previous years to nearly 18,000 acre-feet. However, recharge rates were not as high as anticipated. Chino Basin Watermaster is developing tools to increase recharge so that capacity keeps up with growing water demand. For example, Watermaster will install turbidity meters on recharge basins that accept stormwater. At a certain level of turbidity, the supply will be automatically cut off to decrease the silt that can clog basins.

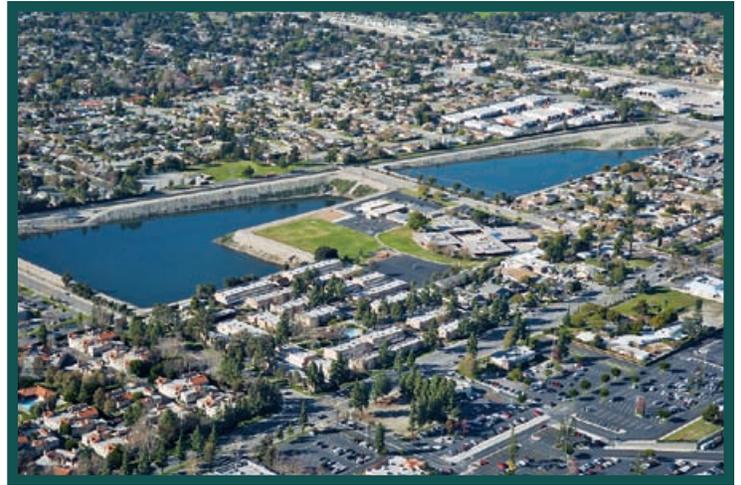
Watermaster is also testing technology to clean silt from the basins while they are full of water, avoiding the need to periodically drain and clean the basins.

Recharge Facilities Improvement Project Advances

As part of a two-year project to improve and expand 20 recharge basins that began in 2003-04, six bid packages for improvements were completed in 2004-05. About half the cost of the \$50 million project will be paid by grants. The remainder of the cost will be divided equally between Watermaster and IEUA.

Large Reclaimed Water Project Earns Acceptance

Inland Empire Utilities Agency is developing a large-scale reclaimed water project that ultimately will produce 22,000 acre-feet of water for recharge. Phase I of the project was approved by the State Department of Health Services with no opposition, which is almost unprecedented. The Department of Health Services requires that reclaimed water be no more than 20 percent of total water recharged (4:1 ratio).



Desalter Expansion Projects Underway

Up to 20 million gallons per day of water with high dissolved solids and high nitrate levels will be treated by new desalters. Chino I Desalter expansion was completed in 2004-05, and Desalter II is still under construction. Work is expected to be completed in April 2006. Application has been made for \$1.6 million in Proposition 50 funds to add ion exchange capacity.

Conjunctive Use Moves From Planning to Implementation

During the last two years, the Dry Year Yield (DYY) Program moved from planning to implementation, with the initial storage of about one-third of a total of 100,000 acre-feet of water in cooperation with the Metropolitan Water District (MWD). Extraction and treatment facilities will be financed by MWD. Meanwhile, Watermaster is continuing to explore other conjunctive use programs. The ultimate goal for all conjunctive use programs is 500,000 acre-feet of storage.

Protecting and Maintaining Water Quality

In past years, when plumes of contamination spread, water suppliers were forced to close down water wells and seek new clean areas. As the plumes grew and spread, they gradually limited the groundwater supply by contaminating ever larger areas. Two of the biggest plumes of contamination are spreading downward from Ontario and Chino Airports. Watermaster stepped in to provide leadership to ensure that the plumes are monitored and cleared.

Focus on Water Quality

In its early days, Watermaster focused virtually all of its resources on water supply. As Watermaster matures, it is investing increased attention to water quality, and tackling the complex problems of groundwater pollution. Through a combination of monitoring and vigorous enforcement of clean water regulations, Watermaster is facing this critical challenge head on.

Water Quality Committee Steps Up Activities

An ad hoc Water Quality Committee stepped up activities in 2004-05, with a special focus on Ontario International Airport. Watermaster worked closely with the Regional Water Quality Control Board to prepare Cleanup and Abatement Orders for the industrial firms that discharged volatile organic compounds at the airport.



Mitigation Activities

Watermaster moved forward in an evolutionary process, to focus on several key areas of water quality:

- Resolve serious contamination problems, such as those found at Chino and Ontario Airports.
- Develop guidelines on Total Maximum Daily Loads to determine revisions to water quality regulations for the Santa Ana River and other bodies of water in the Lower Chino Basin.
- Assist the Regional Water Quality Control Board with research, monitoring, and the development of Investigative Orders and Cleanup and Abatement Orders for potential discharges related to the contamination near Ontario International Airport.

Increased Monitoring of VOC Plumes

Watermaster increased monitoring of volatile organic compound (VOC) plumes and perchlorate testing at Ontario and Chino Airports and Kaiser, General Electric Flat Iron, and General Electric Test Cell industrial sites.



Era of Progress as “Partners in Basin Management”

Facing some of the most rapid growth in the nation, Watermaster will have huge replenishment responsibility in the years ahead. The challenge is finding more places to store water, new ways to inject it into the groundwater supply, and enhancing the supply of reclaimed water.

Watermaster recently added the words “Partners in Basin Management” to its logo. The partnership between Watermaster and all its stakeholders and partners is yielding significant accomplishments. Since 2000, Watermaster and the parties to the Judgment have:

- Secured tens of million of dollars in state funding for desalters.
- Negotiated agreements for acquiring existing facilities and the permitting, design, financing, construction and operation for more than 14 million gallons per day of desalting. These include water supply agreements valued in excess of a half-billion dollars.
- Completed the design, construction and implementation of nearly \$50 million worth of projects called for by the Recharge Master Plan.
- Completed more than \$1 million in technical studies, prepared environmental documents and completed a 100,000 acre-feet Dry Year Yield Storage Agreement with Metropolitan Water District of Southern California.
- Provided increasing leadership in identifying and resolving water quality problems.
- Developed governance mechanisms and agreements that give voice to its many stakeholders among cities, water suppliers, agricultural entities, businesses and others.

Meeting Future Challenges

To increase recharge rates, Watermaster is developing equipment that can remove silt from the recharge basins while they are full of water. This would make it possible to avoid having to drain recharge basins to clear the silt, significantly increasing Watermaster’s annual recharge capacity,

Technology will play an important role in Watermaster’s future with continued enhancement of the databases, and the expansion of GIS technology and other advances.

Most importantly, Watermaster expects even greater levels of coordination to arise from an expected Peace II Agreement. It will also increasingly move from monitoring to improving water supplies and water quality, and achieving cost savings.

Watermaster Governance and Membership

Watermaster is Structured to Accommodate All Stakeholders

To draw together in a single organization all the diverse interests in the Basin, a governing structure was formed that represents all stakeholder groups, including a Board, Advisory Committee and three Producer Pools:

- Agricultural Pool to represent dairymen, farmers, and State interests.
- Non-Agricultural Pool to represent commercial and industrial producers.
- Appropriative Pool to represent cities, water districts and water companies.

Watermaster Board

Calendar Year 2005

Agricultural Pool Representatives

MEMBER	REPRESENTING
Paul Hofer Alternate: Robert Feenstra	Crops
Geoffrey Vanden Heuvel Alternate: John Huitsing	Dairy

Non-Agricultural Pool Representatives

REPRESENTATIVE	MEMBER ENTITY
Bob Bowcock , Secretary/Treasurer Alternate: Justin Scott-Coe	Vulcan Materials Company (Calmat Division)

Appropriative Pool Representatives

REPRESENTATIVE	MEMBER ENTITY
Robert Neufeld , Chair Alternate: Michael Whitehead	Fontana Union Water Company
W.C. "Bill" Kruger , Vice Chair Alternate: Ed Graham	Chino Hills, City of
Paul Hamrick Alternate: Jack Smith	Jurupa Community Services District

Municipal Water District Representatives

REPRESENTATIVE	MEMBER ENTITY
John L. Anderson Alternate: Terry Catlin	Inland Empire Utilities Agency
Bob Kuhn Alternate: David DeJesus	Three Valleys Municipal Water District
Al Lopez Alternate: John Rossi	Western Municipal Water District

Advisory Committee

Calendar Year 2005

Agricultural Pool Representatives

REGULAR MEMBERS	REPRESENTING
Nathan deBoom , Vice-Chair Glenn Durrington Alternate: Dan Hostetler	Dairy Crops
Robert Feenstra Pete Hall Peter Hettinga Alternate: Syp Vander Dussen	Dairy State Dairy
John Huitsing Gene Koopman Gary Lord Rober Nobles Alternate: Ed Gonsman	Crops Dairy State State
Jeff Pierson Alternate: Dan Hostetler	Crops

Non-Agricultural Pool Representatives

REPRESENTATIVE	MEMBER ENTITY
Bob Bowcock , 2nd Vice-Chair Alternate: Justin Scott-Coe	Vulcan Materials Company (Calmat Division)
Mike Thies Eric Wang	Space Center Mira Loma California Steel Industries (CSI)

Appropriative Pool Representatives

REPRESENTATIVE	MEMBER ENTITY
Dave Crosley Mike Maestas Robert DeLoach Alternate: Rita Kurth	Chino, City of Chino Hills, City of Cucamonga Valley Water District
Gerald Black Mike McGraw Carole McGreevy Bill Stafford Mark Kinsey Ken Jeske , Chair (Acting for Non-Ag) Henry Pepper Alternate: Raul Garibay	Fontana Union Water Company Fontana Water Company Jurupa Community Services District Marygold Mutual Water Company Monte Vista Water District Ontario, City of Pomona, City of
Charles Moorrees J. Arnold Rodriguez Rob Turner	San Antonio Water Company Santa Ana River Water Company Upland, City of

Agricultural Pool Committee

Calendar Year 2005

REGULAR MEMBERS

Nathan deBoom, Chair
Gene Koopman, Vice-Chair
Glen Durrington
Robert Feenstra
Edward Gonsman
Pete Hall
Peter Hettinga
John Huitsing
Nate Mackamul
Robert Nobles
Jeff Pierson

REPRESENTING

Dairy
Dairy
Crops
Dairy
State of California-CIW
State of California-CIM
Dairy
Crops
State of California-CIW
State of California-CIW
Crops

ALTERNATES

Dan Hostetler
Gary Lord
Syp Vander Dussen
Peter Von Haam

REPRESENTING

Crops
State of California-CIM
Dairy
State of California-CIM

Non-Agricultural Pool Committee

Calendar Year 2005

REPRESENTATIVE

Mark Ward
Eric Vaughn
Les Richter
Steve Arbelbide
Mike Del Santo
Lisa Hamilton
David Starnes

R.E. Thrash III
Glen Whritenour
James Jenkins

Michael Thies
Alternate: **Tom Cruikshank**
Eric Wang
Bob Bowcock, Chair
Alternate: **Justin Scott-Coe**

MEMBER ENTITY

Ameron Products
Angelic Rental Service
California Speedway
California Steel Industries (CSI)
CCG Ontario, LLC (Catellus)
General Electric Company
Mobile Community Management
(Swan Lake Mobile Home Park)
Praxair
Reliant Energy, Etiwanda LLC
San Bernardino County
Department of Airports
Space Center Mira Loma
Sunkist Growers Incorporated
Vulcan Materials Company
(Calmat Division)

Appropriative Pool Committee

Calendar Year 2005

REPRESENTATIVE

Patrick Bauer
Dave Crosley, Chair
Mike Maestas
Alternate: **Ken Hackmann**
Robert DeLoach, Vice-Chair
Alternate: **Rita Kurth**
Curtis Aaron
Gerald Black
Mike McGraw
Kyle Snay
Rich Atwater
Alternate: **Tom Love**
Carole McGreevy
Kevin Sullivan
Bill Stafford
Mark Kinsey
Mark Kinsey
None
None
Joe Schenk
Ken Jeske
Alternates: **Mohamad El-Amamy**, **Joel Moskowitz**
Henry Pepper
Alternate: **Raul Garibay**
Charles Moorrees
Phil Krause

J. Arnold Rodriguez
Rob Turner
Rob Turner
A.W. "Butch" Araiza

MEMBER ENTITY

Arrowhead Mountain Spring Water
Chino, City of
Chino Hills, City of
Cucamonga Valley
Water District
Fontana, City of
Fontana Union Water Company
Fontana Water Company
Golden State Water Company
Inland Empire Utilities Agency
Jurupa Community Services District
Los Serranos Country Club
Marygold Mutual Water Company
Monte Vista Irrigation Company
Monte Vista Water District
Niagara Bottling Company
Nicholson Trust
Norco, City of
Ontario, City of
Pomona, City of
San Antonio Water Company
San Bernardino, County of
(Prado Shooting Park)
Santa Ana River Water Company
Upland, City of
West End Consolidated Water Company
West Valley Water District

Staff

Calendar Year 2005

Kenneth R. Manning,
Chief Executive Officer

Sheri Rojo, CPA,
CFO/Asst. General Manager

Gordon Treweek, PE, PhD,
Project Engineer

Danielle Maurizio, PE,
Senior Engineer

Jim Theirl,
Water Resource Engineer

Frank Yoo,
GIS Specialist

Justin Nakano,
Environmental Specialist

Sherri Lynne Molino,
Executive Assistant

Janine Wilson,
Accountant

Paula Molter,
Secretary

Appendices

A - S

**COURT HEARINGS AND ORDERS
FISCAL YEAR 2004-2005**

During the fiscal year 2004-05, several hearings were held relating to implementation of the Optimum Basin Management Program (OBMP). Hearings were held as follows with the Honorable Judge J. Michael Gunn presiding:

Hearing Date	Primary Subject Matter
June 21, 2005	<ul style="list-style-type: none"> • Special Referee's Report on Progress Made on Implementation of Watermaster Interim Plan for Management of Subsidence
May 25, 2005	<ul style="list-style-type: none"> • Notice of MZ1 Workshop with Special Referee and Transcript
December 2, 2004	<ul style="list-style-type: none"> • Notice of Motion and Motion to file Status Report No. 11 • Notice of Continuance; Change Time of Hearing • Notice of Motion and Motion for an Order Directing Watermaster to Proceed in Accordance with Peace Agreement as Amended by First Amendment to Peace Agreement • Order Directing Watermaster to Proceed in Accordance with Peace Agreement as Amended by First Amendment • Transmittal of Final Copy of the 26th Annual Report • Order Receiving OBMP Status Reports Nos. 9, 10, & 11, Well Production Summaries and Final Technical Memorandum
September 2, 2004	<ul style="list-style-type: none"> • Joint Request by Chino Basin Watermaster to Order Continuing September 2, 2004 hearing to October 14, 2004; and Order Continuing the Monte Vista Motion to October 14, 2004
August 11, 2004	<ul style="list-style-type: none"> • Notice of Ex Parte Motion and Motion for an Order Shortening Time for filing of Motion for Continuance of Paragraph 15 Motion by Jimmy L. Gutierrez for City of Chino; Points & Authorities in Support thereof; Declaration of Jimmy L. Gutierrez in Support thereof
August 9, 2004	<ul style="list-style-type: none"> • Notice Regarding Participation in MZ1 Interim Plan Forbearance

**RESOLUTIONS
FISCAL YEAR 2004-2005**

Resolution	Adopted	Summary of Resolution
05-04	June 9, 2005	<p><i>Supporting a Cooperative Grant Agreement Under Chapter 8 of Proposition 50 for the Development of an Integrated Regional Management Plan</i></p> <ul style="list-style-type: none"> The Chino Basin Watermaster's Board commits its support for the cooperative effort necessary for the development of an integrated regional water management plan as described as the "Proposition 50" grant application.
05-03	January 27, 2005	<p><i>Levying Replenishment and Administrative Assessments for Fiscal Year 2004-2005</i></p> <ul style="list-style-type: none"> The Chino Basin Watermaster levies the respective assessments for each pool effective November 18, 2004 as shown on Exhibit "A" (Summary of Assessments). Pursuant to the Judgment, each party has thirty days from the date of invoice to remit the amount of payment for assessments due. After that date, interest will accrue on that portion which was due as provided for in Section 55(c) of the Judgment.
05-02	January 27, 2005	<p><i>Authorizing Investment of Monies in the Local Agency Investment Fund</i></p> <ul style="list-style-type: none"> The Board of Directors authorizes the deposit and withdrawal of Chino Basin Watermaster monies in the Local Agency Investment Fund in the State Treasury in accordance with the provisions of Section 16429.1 of the Government Code for the purpose of investment as stated therein, and verification by the State Treasurer's Office of all banking information provided in that record. The following Chino Basin Watermaster officers and designated employees or their successors in office/position shall be authorized to order the deposit or withdrawal of monies in the Local Agency Investment Fund: Chairman of the Board, Vice-Chair, Secretary/Treasurer, Chief Executive Officer/Secretary, and Finance Manager.
05-01	January 27, 2005	<p><i>Establishing a Watermaster Investment Policy</i></p> <ul style="list-style-type: none"> The authority to invest and reinvest funds of Watermaster is delegated to the Watermaster Finance Manager subject to the provisions of said Investment Policy and the ongoing review and control of Watermaster and the Watermaster Advisory Committee. This resolution shall take effect from and after its date of adoption and Resolution 00-09 is rescinded in its entirety.

HISTORY OF INTERVENTIONS AFTER THE JUDGMENT

Fiscal Year	Appropriative	Non-Agricultural	Agricultural
04-05			
03-04			
02-03	Niagara Bottling Company		
01-02	Nicholson Trust		
00-01		Loving Savior of the Hills Lutheran Church CCG Ontario, LLC (Catellus Commercial Group)	
99-00			
98-99			
97-98			Louis Badders Paul Russavage
96-97		Mountain Vista Power Generation Company, LLC California Speedway Corporation	Ambrosia Farms, Chin T. Lee
95-96	City of Fontana	General Electric Company	Elizabeth H. Rohrs Richard Van Loon S.N.S. Dairy Wineside 45 Frank Lizzaraga
94-95			
93-94			
92-93			
91-92	Arrowhead Mountain Springs Water Co.	California Steel Industries, Inc.	
90-91			
89-90	Fontana Water Company		Gary Teed

¹ Refer to the Twenty-Seventh Annual Report (Fiscal Year 2003-04) for interventions prior to 89-90.

**WATERMASTER'S "NOTICE OF INTENT" TO
CHANGE THE OPERATING SAFE YIELD OF THE
CHINO GROUNDWATER BASIN**

PLEASE TAKE NOTICE that on this 27th day of January 2005, Chino Basin Watermaster hereby files this 'NOTICE OF INTENT' to change the operating safe yield of the Chino Groundwater Basin Pursuant to the Judgment entered in Chino Basin Municipal Water District v. City of Chino, et al., San Bernardino Superior Court, Case No. RCV 51010 (formerly Case No. 164327) (Exhibit I, Paragraph 2b, Page 80).

**Approved by
CHINO BASIN WATERMASTER
ADVISORY COMMITTEE**

**CHINO BASIN WATERMASTER
BOARD OF DIRECTORS**

**By: /s/ Ken Jeske
Ken Jeske
Chairman, Advisory Committee**

**By: /s/ Robert Neufeld
Robert Neufeld
Chairman, Watermaster Board**

ATTEST:

**By: /s/ Bob Bowcock
Bob Bowcock
Secretary, Watermaster Board**

**APPROPRIATIVE RIGHTS
(ORIGINAL PER JUDGMENT)**

<u>Party</u>	<u>Appropriative Right (Acre-Feet)</u>	<u>Share of Initial Operating Safe Yield (Acre-Feet)</u>	<u>Share of Operating Safe Yield (Percent)</u>
City of Chino	5,271.70	3,670.07	6.69
City of Norco	289.50	201.55	0.37
City of Ontario	16,337.40	11,373.82	20.74
City of Pomona	16,110.50	11,215.85	20.45
City of Upland	4,097.20	2,852.40	5.20
Cucamonga County Water District	4,431.00	3,084.79	5.63
Jurupa Community Services District	1,104.10	768.66	1.40
Monte Vista County Water District	5,958.70	4,148.34	7.57
West San Bernardino County Water District	925.50	644.32	1.18
Etiwanda Water Company	768.00	534.67	0.98
Feldspar Gardens Mutual Water Company	68.30	47.55	0.09
Fontana Union Water Company	9,188.30	6,396.74	11.67
Marygold Mutual Water Company	941.30	655.32	1.20
Mira Loma Water Company	1,116.00	776.94	1.42
Monte Vista Irrigation Company	972.10	676.76	1.23
Mutual Water Company of Glen Avon Heights	672.20	467.97	0.85
Park Water Company	236.10	164.37	0.30
Pomona Valley Water Company	3,106.30	2,162.55	3.94
San Antonio Water Company	2,164.50	1,506.89	2.75
Santa Ana River Water Company	1,869.30	1,301.37	2.37
Southern California Water Company	1,774.50	1,235.38	2.25
West End Consolidated Water Company	1,361.30	947.71	1.73
Total	78,763.80	54,834.00	100.00

**APPROPRIATIVE RIGHTS
(AS OF JUNE 30, 2005)**

<u>Party</u>	<u>Appropriative Right (Acre-Feet)</u>	<u>Share of Initial Operating Safe Yield (Acre-Feet)</u>	<u>Share of Operating Safe Yield (Percent)</u>
City of Chino ^A	5,794.60	4,034.14	7.36
City of Chino Hills ^B	3,033.20	2,111.66	3.85
City of Norco	289.50	201.79	0.37
City of Ontario	16,337.40	11,373.67	20.74
City of Pomona	16,110.50	11,215.75	20.45
City of Upland	4,097.20	2,852.47	5.20
Cucamonga Valley Water District ^C	5,199.20	3,619.59	6.60
Jurupa Community Services District ^D	2,960.70	2,061.21	3.76
Monte Vista County Water District ^E	6,928.80	4,823.75	8.80
West Valley Water District ^F	925.50	644.30	1.18
Fontana Union Water Company ^G	9,188.30	6,392.00	11.66
Fontana Water Company ^H	-	1.97	0.00
Los Serranos County Club ^I	-	-	-
Marygold Mutual Water Company	941.30	655.27	1.20
Monte Vista Irrigation Company	972.10	676.65	1.23
Niagara Bottling Company ^J	-	-	-
Nicholson Trust ^K	-	4.00	0.01
San Antonio Water Company	2,164.50	1,506.84	2.75
Santa Ana River Water Company	1,869.30	1,301.21	2.37
Golden State Water Company ^L	590.70	411.26	0.75
West End Consolidated Water Company	1,361.30	947.53	1.73
San Bernardino County (Shooting Park) ^M	-	-	-
Arrowhead Mountain Springs Water Company ^N	-	-	-
City of Fontana ^O	-	-	-
Total	78,764.10	54,835.03	100.00

^A In 1990, Chino received a portion of San Bernardino County Water Works #8 (WW#8) OSY (363.790 AF) as a result of a permanent transfer.

^B WW#8 acquired a portion of the rights of Park and Pomona Valley Water Companies in 1983. City of Chino Hills incorporated in 1991 and assumed the responsibility for providing the public services formerly provided by WW#8.

^C CVWD acquired the rights to Etiwanda Water Company (upon dissolution in 1986). CCWD changed their name to CVWD in 2004.

^D JCSD acquired the rights of Mira Loma Water Company (776.940 AF), Feldspar Gardens (47.549 AF) and Mutual Water Company of Glen Avon Heights (467.974 AF).

^E MVCWD changed their name to MVWD in 1980. In 1990, MVWD received 675.610 AF of WW#8 OSY as a result of a permanent transfer.

^F WSBCWD changed their name to WVWD in 2003.

^G In FY 2001-02 5.00 AF of Safe Yield was reassigned, 1.00 AF to FWC and 4.00 AF to the Nicholson Trust.

^H FWC intervened in FY 91-92 and was assigned 1.00 AF of OSY as a result of a permanent transfer of water rights from FUWC.

^I Los Serranos intervened in FY 83-84.

^J Niagara Bottling Company intervened in FY 02-03.

^K Nicholson Trust intervened in FY 01-02.

^L SCWC permanently transferred 823.900 AF of OSY to Park Water Company in 1980. Park Water Co was acquired by WW#8, which was subsequently acquired by the City of Chino Hills. SCWC changed their name to GSWC in 2005.

^M San Bernardino County Prado Tiro (now known as Prado Shooting Park) was involuntarily reassigned to the Appropriative Pool from the Ag Pool in 1985.

^N Arrowhead intervened in FY 92-93.

^O Fontana intervened in FY 98-99.

**NON-AGRICULTURAL RIGHTS
(ORIGINAL PER JUDGMENT)**

<u>Party</u>	<u>Total Overlying Non-Agricultural Rights (Acre-Feet)</u>	<u>Share of Safe Yield (Acre-Feet)</u>
Ameron Steel Producers, Inc.	125.00	97.86
County of San Bernardino (Airport)	171.00	133.87
Conrock Company	406.00	317.84
Kaiser Steel Corporation	3,743.00	2,930.27
Red Star Fertilizer	20.00	15.66
Southern California Edison Co.	1,255.00	982.50
Space Center, Mira Loma	133.00	104.12
Southern Service Co. dba Blue Seal Linen	24.00	18.79
Sunkist Growers, Inc.	2,393.00	1,873.40
Carlsberg Mobile Home Properties, Ltd '73	593.00	464.24
Union Carbide Corporation	546.00	427.45
Quaker Chemical Co.	-	-
Total	9,409.00	7,366.00

**NON-AGRICULTURAL RIGHTS
(AS OF JUNE 30, 2005)**

<u>Party</u>	<u>Total Overlying Non-Agricultural Rights (Acre-Feet)</u>	<u>Share of Safe Yield (Acre-Feet)</u>
Ameron Steel Producers, Inc.	125.00	97.86
County of San Bernardino (Airport)	171.00	133.87
Vulcan Materials Company ^A	406.00	317.84
CCG Ontario LLC ^B	805.00	630.27
West Venture Development Co. ^C	-	-
Southern California Edison Co. ^D	37.00	27.96
Reliant Energy, Etiwanda ^E	1,219.00	954.54
Space Center, Mira Loma	133.00	104.12
Angelica Rental Service ^F	24.00	18.79
Sunkist Growers, Inc.	2,393.00	1,873.40
Swan Lake Mobile Home Park ^G	593.00	464.24
California Steel Industries ^H	1,660.00	1,300.00
Praxair ^I	546.00	427.45
General Electric Company ^J	-	-
California Speedway ^K	1,277.00	1,000.00
Loving Savior of the Hills Lutheran Church ^L	-	-
Total	9,389.00	7,350.34

^A Conrock became Calmat and in FY 99-00 became Vulcan Materials Co.

^B Kaiser Steel Corporation became Kaiser Resources and then Kaiser Venture, Inc. Kaiser sold portions of its property to CSI & Speedway, its last property holdings and all its remaining water rights to CCG Ontario LLP on 8-16-00.

^C Anaheim Citrus became Red Star Fertilizer, West Venture Development. West Venture went out of business in 91-92.

^D A portion of SCE was sold in FY 98-99. SCE retained 27.959 AF OSY.

^E Mountain Vista Power Generating Company (MVPG) purchased the Etiwanda Generating Facility owned by SCE in FY 98-99. MVPG became Reliant Energy, Etiwanda with 954.540 AF OSY.

^F Southern Service Company became Angelica Rental Service.

^G Carlsberg Mobile Home Properties became Mobile Community Management and is known as Swan Lake Mobile Home Park.

^H California Steel Industries (CSI) intervened in FY 91-92 after purchasing land from Kaiser.

^I Union Carbide Corp. became Praxair, Inc.

^J General Electric Company intervened in FY 95-96.

^K California Speedway intervened in FY 96-97 after purchasing land from Kaiser. On August 16, 2000, Catellus permanently transferred 525.00 AF OSY to Speedway.

^L Loving Savior of the Hills Lutheran Church intervened in FY 00-01.

HISTORY OF TOTAL ANNUAL GROUNDWATER PRODUCTION BY POOL (ACRE-FEET)

Fiscal Year	Appropriative	Agricultural	Non-Agricultural	Total
74-75	70,312	96,567	8,878	175,757
75-76	79,312	95,349	6,356	181,017
76-77	72,707	91,450	9,198	173,355
77-78	60,659	83,934	10,082 ¹	154,675
78-79	60,597	73,688	7,127	141,412
79-80	63,834	69,369	7,363	140,566
80-81	70,726	68,040	5,650	144,416
81-82	66,731	65,117	5,684	137,532
82-83	63,481	56,759	2,395	122,635
83-84	70,558	59,033	3,208	132,799
84-85	76,912	55,543	2,415	134,870
85-86	80,859	52,061	3,193	136,113
86-87	84,662	59,847	2,559	147,068
87-88	91,579 ²	57,865	2,958	152,402
88-89	93,617 ³	46,762	3,619	143,998
89-90	101,344 ⁴	48,420	4,856	154,620
90-91	86,658 ⁵	48,085	5,407	140,150
91-92	91,982 ⁶	44,682	5,240	141,904
92-93	86,367 ⁷	44,092	5,464	135,923
93-94	80,798 ⁸	44,298	4,586	129,682
94-95	93,419 ⁹	55,022	4,327	152,768
95-96	101,606 ^{10, 11}	43,639	5,424	150,669
96-97	110,163 ¹¹	44,809	6,309	161,281
97-98	97,435 ¹²	43,345	4,955 ¹³	145,735
98-99	107,723	47,538	7,006	162,267
99-00	126,645	44,401	7,774	178,820
00-01	113,437 ^{11, 14}	39,954	8,084	161,475
01-02	121,489 ^{11, 15}	39,494	5,548	166,531
02-03	120,557 ^{11, 16}	38,487 ¹¹	4,853	163,897
03-04	136,834 ¹⁷	41,978	2,915	181,727
04-05	127,811 ¹⁸	34,450	2,327	164,588

¹ Includes 3,945 AF of mined water pumped by Edison as agent for IEUA.

² Does not include 7,674.3 AF exchanged with MWDSC.

³ Does not include 6,423.6 AF exchanged with MWDSC.

⁴ Does not include 16,377.1 AF exchanged with MWDSC.

⁵ Does not include 14,929.1 AF exchanged with MWDSC.

⁶ Does not include 12,202.4 AF exchanged with MWDSC.

⁷ Does not include 13,657.3 AF exchanged with MWDSC.

⁸ Does not include 20,194.7 AF exchanged with MWDSC.

⁹ Does not include 4,221.9 AF exchanged with MWDSC.

¹⁰ Does not include 6,167.2 AF exchanged with MWDSC.

¹¹ Reflects corrected production after reporting errors were accounted for.

¹² Does not include 4,275.4 AF exchanged with MWDSC.

¹³ Does not include 216.5 AF exchanged with MWDSC.

¹⁴ Does not include 7,989 AF Desalter production or 99.8 AF Dept. of Toxic Substances Control (DTSC) production.

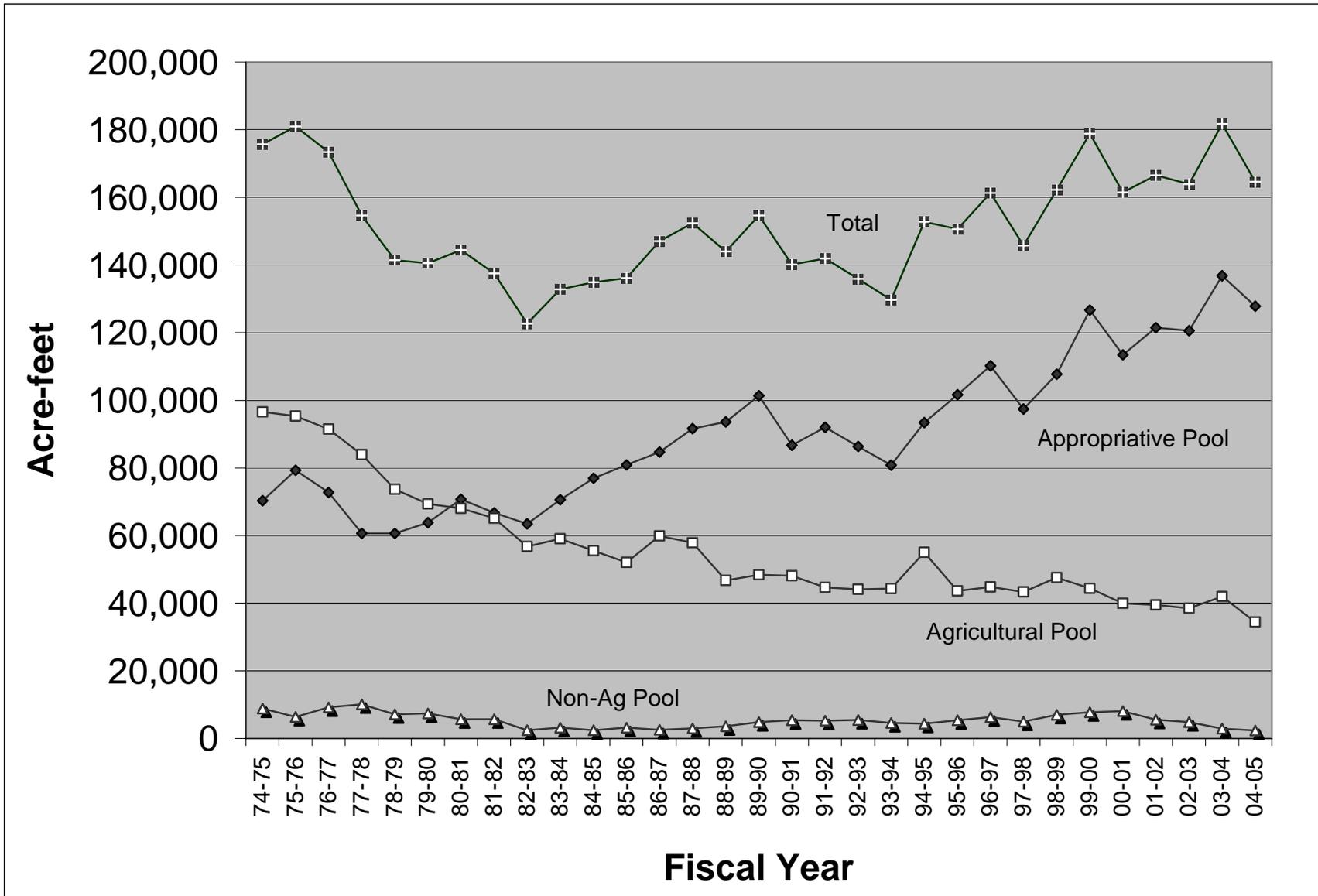
¹⁵ Does not include 9,458 AF Desalter production or 80.8 AF Dept. of Toxic Substances Control (DTSC) production.

¹⁶ Does not include 10,439 AF Desalter production or 79.1 AF Dept. of Toxic Substances Control (DTSC) production.

¹⁷ Does not include 10,605 AF Desalter production or 79.1 AF Dept. of Toxic Substances Control (DTSC) production.

¹⁸ Does not include 9,854 AF Desalter production or 80.7 AF Dept. of Toxic Substances Control (DTSC) production.

HISTORY OF TOTAL ANNUAL GROUNDWATER PRODUCTION BY POOL



**HISTORY OF REALLOCATION OF UNPRODUCED
AGRICULTURAL POOL SAFE YIELD¹
(ACRE-FEET)**

Fiscal Year	Land Use Conversions	Remaining 50% Allocated	Balance Available	Total Ag Pool Reallocated to Appropriators
83-84	297	297	25,762	26,355 ²
84-85	297	297	18,543	19,136
85-86	406	406	21,091	21,902
86-87	406	406	36,348	37,159
87-88	2,028	2,028	74,433	78,489 ³
88-89	406	406	24,124	24,935
89-90	406	406	35,227	36,038
90-91	406	406	33,569	34,380
91-92	406	406	33,904	34,715
92-93	406	406	37,307	38,118
93-94	406	406	37,897	38,708
94-95	3,246	406	34,850	38,502
95-96	5,855	5,855	16,067	27,778
96-97	6,310	6,310	26,541	39,161
97-98	7,213	7,213	23,565	37,991
98-99	8,511	8,511	22,433	39,455
99-00	10,471	N/A	63,191	73,662 ⁴
00-01	13,920	N/A	28,926	42,846
01-02	14,133	N/A	29,173	43,306
02-03	16,480	N/A	27,833	44,313
03-04	17,510 ⁵	N/A	23,312	40,822
04-05	19,013	N/A	29,336	48,350

¹ Source: Watermaster Annual Reports and Assessment Packages.

² First year reallocation occurred under the Judgment.

³ Appropriators agree to pay Ag Pool assessments. Reallocation procedure changed by agreement.

⁴ Peace Agreement signed. Appropriators agree to pay Ag Pool assessments for life of Peace Agreement. Procedure changed by agreement. Ag Pool Annual Safe Yield is 82,800 AF.

⁵ After duplication of conversion areas were identified, Jurupa's Pre-Peace Agreement acres were adjusted (337.6 acres), and Post-Peace Agreement acres were adjusted (846.4 acres).

TOTAL WATER CONSUMPTION WITHIN THE CHINO BASIN¹
(ACRE-FEET)

Fiscal Year	Chino Basin Extractions²	Other Imported Supplies³	Total
74-75	175,757	49,383	225,140
75-76	181,017	57,686	238,703
76-77	173,355	55,765	229,120
77-78	154,675	61,567	216,242
78-79	142,412 ⁴	75,864	218,276
79-80	140,566	70,727	211,293
80-81	144,416	77,765	222,181
81-82	137,532	67,491	205,023
82-83	122,635	76,000	198,635
83-84	132,799	99,257	232,056
84-85	134,870	92,952	227,822
85-86	136,113	114,624	250,737
86-87	147,068	126,493	273,561
87-88	152,402	116,175	268,577
88-89	143,998	128,167	272,165
89-90	154,620	139,004	293,624
90-91	140,151	116,493	256,644
91-92	141,904	104,480	246,384
92-93	135,923	117,205	253,128
93-94	129,682	136,038	265,720
94-95	152,768	116,797	269,565
95-96	150,669 ⁴	130,494	281,163
96-97	161,281 ⁴	115,031	276,312
97-98	145,735	106,360	252,095
98-99	162,267	113,040	275,307
99-00	178,820	129,208	308,028
00-01	161,475 ⁴	128,596	290,071
01-02	165,898	140,907	306,805
02-03	163,897	134,154 ⁴	298,051
03-04	181,727	143,989	325,716
04-05	164,588	145,644	310,232

¹ Total includes water used over Cucamonga Basin.

² See Appendix "History of Total Annual Groundwater Production by Pool."

³ Total does not include cyclic deliveries, water delivered by exchange, or water from direct spreading that was used for replenishment.

⁴ Reflects corrected value.

**SUMMARY OF SUPPLEMENTAL SUPPLIES
FISCAL YEAR 2004-2005
(ACRE-FEET)**

Member Agency	Other Basins	Surface Diversions	SBVMWD & MWDSC Imported Deliveries	Recycled Water	Total
Chino, City of	-	-	-	845.6	845.6
Chino Hills, City of	-	-	-	829.9	829.9
Cucamonga Valley Water District ¹	8,350.4	5,086.9	-	36.0	13,473.2
Inland Empire Utilities Agency ²	-	-	-	964.4	964.4
Fontana Water Company ³	17,125.2	2,742.0	2,182.1	29.4	22,078.7
Marygold Mutual Water Company ⁴	1,253.3	-	-	-	1,253.3
MWDSC ⁵	-	-	74,627.5	-	74,627.5
Monte Vista Water District	-	-	-	7.3	7.3
Ontario, City of	-	-	-	1,207.1	1,207.1
Pomona, City of ⁶	2,677.3	1,942.0	2,065.8	-	6,685.1
San Antonio Water Company ⁷	6,783.2	741.1	-	-	7,524.2
San Bernardino, County of	-	-	-	1,459.3	1,459.3
State of California, CIM ⁸	-	-	-	1,083.0	1,083.0
Upland, City of ⁹	2,874.9	467.3	-	55.9	3,398.2
West End Consolidated Water Company	1,454.6	-	-	-	1,454.6
West Valley Water District ¹⁰	8,752.6	-	-	-	8,752.6
Total	49,271.4	10,979.3	78,875.4	6,517.9	145,643.9

¹ Includes groundwater produced from Cucamonga Basin and surface water from Lloyd Michaels, Royer-Nesbit, and Arthur H. Bridge WTPs, and Deer Canyon.

² IEUA provided 5,395.6 AF of recycled water as follows: 1,459.278 AF to San Bernardino County; 1,169.223 AF to Ontario; 829.258 AF to the City of Chino, and 815.080 AF to the City of Chino Hills. Ely Basin Groundwater Recharge in the amount of 158.3 AF is shown as allocated within each service area.

³ Imported groundwater produced from Colton/Rialto and "unnamed" basin. Surface water deliveries are from Lytle Creek.

⁴ Imported groundwater produced from wells located in the Rialto Basin.

⁵ MWDSC and SBVMWD deliveries (See Appendix E-1 for individual agencies breakdown).

⁶ Includes 1,772.804 AF of groundwater from Six Basins and 904.509 AF of groundwater from Spadra Basin. Imported water was delivered through TVMWD.

⁷ An amount of 741.083 AF was treated local canyon flow used in the overlying Chino Basin. The imported groundwater was 1654.9 AF from San Antonio Tunnel, 4270.951 AF from Cucamonga Basin and 857.3 AF from Six Basins.

⁸ Recycled wastewater that was applied to fields, including water held in storage ponds.

⁹ Includes 749.99 AF from Cucamonga Basin. Surface water deliveries are from the San Antonio Canyon WTP. Recycled water includes water from the Upland Hills Country Club Sewage Treatment Plant.

¹⁰ Listed amount was delivered to "meter book" service area.

**SUMMARY OF MWDSC DELIVERIES
FISCAL YEAR 2004-2005
(ACRE-FEET)**

Month	Water Facilities Authority - CB-12					
	Upland	MVWD	Ontario	Chino	Chino Hills ¹	Total
July	1,268	1,417	1,625	675	975	5,960
August	1,288	1,473	1,860	670	944	6,235
September	1,239	1,280	1,764	654	783	5,720
October	636	780	1,371	641	555	3,983
November	258	618	842	368	555	2,640
December	206	676	885	392	562	2,720
January	107	498	401	408	391	1,805
February	101	236	173	346	87	942
March	61	874	600	385	265	2,184
April	288	1,514	1,007	495	877	4,181
May	625	1,386	1,471	592	1,198	5,272
June	831	722	1,466	636	1,365	5,019
Total	6,905	11,472	13,464	6,263	8,556	46,660

Month	Reliant	Cucamonga Valley Water District			Pomona	Total
	CB-01	CB-07	CB-16	Sub-Total		
July	-	142	4,354	4,495	536	10,991
August	-	131	4,129	4,260	496	10,991
September	-	117	3,761	3,879	449	10,047
October	-	57	2,419	2,476	225	6,684
November	-	-	1,712	1,712	44	4,396
December	-	4	1,692	1,696	17	4,432
January	-	-	1,319	1,319	30	3,154
February	-	-	308	308	36	1,286
March	-	-	308	308	-	2,492
April	-	-	1,985	1,985	21	6,187
May	-	-	2,440	2,440	67	7,779
June	-	-	3,091	3,091	145	8,256
Total	-	452	27,516	27,968	2,066	76,693

¹ Total includes water delivered directly from WFA and from WFA through MVWD by agreement.

**SUMMARY OF CONJUNCTIVE USE, REPLENISHMENT, AND CYCLIC ACTIVITIES
FISCAL YEAR 2003-2004
(ACRE-FEET)**

	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
Conjunctive Use Plan, All Parties - Storage													
Direct													
Monte Vista Water District	-	-	-	-	-	-	-	-	-	-	-	-	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
In-Lieu													
Chino Basin Watermaster	483.4	850.4	1,129.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,463.4
Chino, City of ¹	0.0	0.0	727.3	684.8	491.2	381.0	121.1	120.1	188.5	212.6	115.6	222.9	3,264.9
Chino Hills, City of ¹	0.0	0.0	0.0	0.0	167.0	250.0	250.0	250.0	250.0	250.0	83.0	0.0	1,500.0
Cucamonga Valley Water District	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Jurupa Community Services District	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Monte Vista Water District	0.0	0.0	0.0	440.0	450.0	250.0	400.0	490.0	660.0	700.0	700.0	125.0	4,215.0
Ontario, City of	0.0	0.0	0.0	0.0	1,124.0	1,162.4	0.0	500.0	953.0	1,140.0	1,140.0	1,099.0	7,118.4
Pomona, City of	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Upland, City of	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	483.4	850.4	1,856.9	1,124.8	2,232.2	2,043.4	771.1	1,360.1	2,051.5	2,302.6	2,038.6	1,446.9	18,561.7
Total Storage	483.4	850.4	1,856.9	1,124.8	2,232.2	2,043.4	771.1	1,360.1	2,051.5	2,302.6	2,038.6	1,446.9	18,561.7
Replenishment Deliveries to Watermaster					Obligation = 23,529.022 AF								
(Including 6,500 AF to MZ-1)					(17,029.022 over-production + 6,500 MZ-1)								
Direct													
CB-11T (Deer Creek)	-	-	-	-	-	-	-	-	-	-	-	-	0.0
CB-13T (San Sevaine)	0.0	0.0	0.0	659.9	274.5	276.8	0.0	0.0	0.0	0.0	0.0	0.0	1,211.2
CB-14T (Etiwanda)	0.0	0.0	0.0	706.5	342.3	244.9	0.0	0.0	280.5	359.8	525.5	352.9	2,812.4
CB-15T (Day Creek)	-	-	-	-	-	-	-	-	-	-	-	-	0.0
CB-18T (Etiwanda Inter-tie)	-	-	-	-	-	-	-	-	-	-	-	-	0.0
OC-59 (San Antonio)	0.0	0.0	0.0	244.3	1,000.0	903.5	496.9	362.6	0.0	445.6	0.0	105.5	3,558.4
	0.0	0.0	0.0	1,610.7	1,616.8	1,425.2	496.9	362.6	280.5	805.4	525.5	458.4	7,582.0
Purchased from Cyclic Acct ²	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13,005.4	13,005.4
Total Replenishment	0.0	0.0	0.0	1,610.7	1,616.8	1,425.2	496.9	362.6	280.5	805.4	525.5	13,463.8	20,587.4

¹ Includes 1,500.0 AF of voluntary forbearance water.

² 30,000.0 AF was purchased during the FY 04-05, 13,005.4 AF of which was credited toward FY 03-04's year's recharge obligation.

**SUMMARY OF CONJUNCTIVE USE, REPLENISHMENT, AND CYCLIC ACTIVITIES
FISCAL YEAR 2004-2005
(ACRE-FEET)**

	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	Total
Conjunctive Use Plan, All Parties - Storage													
Direct													
Monte Vista Water District	-	-	-	-	-	-	-	-	-	-	-	-	0.0
	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
In-Lieu													
Chino Basin Watermaster	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Chino, City of ¹	0.0	0.0	0.0	257.7	224.9	212.6	156.7	120.1	198.7	112.9	321.0	287.8	1,892.4
Chino Hills, City of ¹	0.0	0.0	0.0	0.0	250.0	250.0	250.0	150.0	150.0	150.0	150.0	1,319.2	2,669.2
Cucamonga Valley Water District	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Jurupa Community Services District	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Monte Vista Water District	125.0	300.0	650.0	675.0	550.0	550.0	400.0	200.0	825.0	1,450.0	625.0	700.0	7,050.0
Ontario, City of	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pomona, City of	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Upland, City of	0.0	0.0	0.0	0.0	0.0	0.0	107.1	101.1	60.5	287.7	624.5	830.7	2,011.6
	125.0	300.0	650.0	932.7	1,024.9	1,012.6	913.8	571.2	1,234.2	2,000.6	1,720.5	3,137.7	13,623.2
Total Storage	125.0	300.0	650.0	932.7	1,024.9	1,012.6	913.8	571.2	1,234.2	2,000.6	1,720.5	3,137.7	13,623.2
Replenishment Deliveries to Watermaster					Obligation = 43,552.018 AF								
(Including 6,500 AF to MZ-1)					(32,388.421 over-production + 6,500 MZ-1+ 2,941.6 carryover MZ-1 + 5,165.99/3yrs. JCSD correction)								
Direct													
CB-11T (Deer Creek)	0.0	0.0	0.0	15.5	74.5	219.2	0.0	0.0	0.0	0.0	1.0	0.0	310.2
CB-13T (San Sevaine)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	434.0	1,186.7	1,620.7
CB-14T (Etiwanda) ²	572.4	576.4	586.0	402.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2,137.0
CB-15T (Day Creek)	0.0	0.0	0.0	0.0	0.0	4.9	0.0	0.0	0.0	0.0	101.4	0.4	106.7
CB-18T (Etiwanda Inter-tie)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	0.0	32.0	163.0	196.8
OC-59 (San Antonio)	0.0	63.7	1,765.7	0.0	1,115.7	1,005.1	0.0	16.9	93.1	1,821.4	1,564.4	441.2	7,887.2
	572.4	640.1	2,351.7	417.7	1,190.2	1,229.2	0.0	16.9	94.9	1,821.4	2,132.8	1,791.3	12,258.6
Purchased from Cyclic Acct³	0.0	0.0	0.0	0.0	0.0	16,994.6	0.0	0.0	0.0	0.0	0.0	0.0	16,994.6
Total Replenishment	572.4	640.1	2,351.7	417.7	1,190.2	18,223.8	0.0	16.9	94.9	1,821.4	2,132.8	1,791.3	29,253.2

¹ Includes 1,500.0 AF of voluntary forbearance water.

² October 2004 delivery is updated to reflect actual delivery.

³ 30,000.0 AF was purchased during the FY, but the other 13,005.4 AF was credited toward the previous year's recharge obligation.

**SUMMARY OF STORM WATER RECHARGE
FISCAL YEAR 2004-2005
(ACRE-FEET)**

Storm Event	Duration (Event & Recharge)	Precipitation (Inches)	Stormwater Captured (Acre-Feet)
1	10/16/04-10/25/04	5.78	1,154
2	10/26/04-11/19/04	3.94	1,541
3	11/20/04-12/04/04	1.97	783
4	12/05/04-12/27/04	0.40	346
5	12//28/04-1/06/05	6.55	846
6	01/07/05-01/25/05	13.71	2,275
7	01/26/05-02/09/05	1.31	1,179
8	02/10/05-02/16/05	2.66	1,065
9	02/17/05-3/21/05	11.30	4,416
10	3/22/05-4/16/05	1.38	955
11	4/17/05-5/25/05	0.95	1,082
12	6/05/05-6/30/05	snow melt	2,000
Totals		49.97	17,642
Historical Annual Average Recharge ¹			5,600
New Yield			12,042

¹Includes 400 AF at Wineville, 400 AF at Riverside, and 500 AF at Etiwanda Conservation Ponds.
FY 04-05 "Stormwater Captured" did not measure recharge in these basins.

APPROPRIATIVE POOL WATER PRODUCTION SUMMARY FISCAL YEAR 2004-2005



Assessment Year 2005-2006 (Production Year 2004-2005)

Pool 3 Water Production Summary

	Carryover Beginning Balance	Prior Year Adjustments	Assigned Share of Operating Safe Yield (AF)	Reallocation of Agricultural Pool Safe Yield				Net Ag Pool Reallocation
				32,800 AF Early Transfer	Land Use Conversions	Potential for Reallocation (AF)	Difference: Potential vs. Net	
Arrowhead Mtn Spring Water Co	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Chino Hills, City Of	2,111.658	0.000	2,111.422	1,263.128	987.346	2,250.473	(133.388)	2,117.085
Chino, City Of	4,034.137	0.000	4,033.857	2,413.096	5,688.576	8,101.672	(254.826)	7,846.846
Cucamonga Valley Water District	3,619.594	0.000	3,619.454	2,165.128	598.364	2,763.492	(228.640)	2,534.852
Desalter Authority	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Fontana Union Water Company	0.000	0.000	6,391.736	3,823.496	0.000	3,823.496	(403.766)	3,419.730
Fontana Water Company	0.000	0.000	1.000	0.656	834.000	834.656	(0.069)	834.587
Inland Empire Utilities Agency	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Jurupa Community Services District	0.000	0.000	2,061.118	1,232.952	9,858.196	11,091.148	(130.201)	10,960.947
Los Serranos Country Club	0.000	0.000		0.000	0.000	0.000	0.000	0.000
Marygold Mutual Water Company	655.267	0.000	655.317	391.960	0.000	391.960	(41.391)	350.569
Metropolitan Water District	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Monte Vista Irrigation Company	145.347	0.000	676.759	404.752	0.000	404.752	(42.742)	362.010
Monte Vista Water District	0.000	0.000	4,823.954	2,885.416	55.075	2,940.491	(304.704)	2,635.787
Niagara Water Company	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Nicholson Trust	1.458	0.000	4.000	2.296	0.000	2.296	(0.242)	2.054
Norco, City Of	0.000	0.000	201.545	120.704	0.000	120.704	(12.746)	107.958
Ontario, City Of	0.000	0.000	11,373.816	6,803.376	991.717	7,795.093	(718.445)	7,076.648
Pomona, City Of	2,148.383	0.000	11,215.852	6,708.912	0.000	6,708.912	(708.470)	6,000.442
San Antonio Water Company	1,506.839	0.000	1,506.888	901.344	0.000	901.344	(95.183)	806.161
San Bernardino County Shtg Prk	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Santa Ana River Water Company	598.167	0.000	1,301.374	778.344	0.000	778.344	(82.194)	696.150
So Cal Water Company	411.256	0.000	411.476	246.000	0.000	246.000	(25.978)	220.022
Upland, City Of	2,852.466	0.000	2,852.401	1,706.256	0.000	1,706.256	(180.183)	1,526.073
West End Consolidated Water Compa	947.532	0.000	947.714	566.784	0.000	566.784	(59.853)	506.931
West Valley Water District	644.300	0.000	644.317	385.400	0.000	385.400	(40.699)	344.701
	19,676.405	0.000	54,834.000	32,800.000	19,013.274	51,813.273	(3,463.723)	48,349.550
Less Desalter Production								
Total Assessable Production								

Water Transaction Activity	New Yield	Annual Production Right	Actual Fiscal Year Production	MWD Exchanges	Total Production and Exchanges	Net Over-Production		Under Production Balances		
						85/15%	100%	Total Under-Produced	Carryover: Next Year Begin Bal	To Excess Carryover Account
0.000	0.000	0.000	95.004	0.000	95.004	0.000	95.003	0.000	0.000	0.000
14.800	462.120	6,817.085	2,153.140	2,669.245	4,822.385	0.000	0.000	1,994.699	1,994.699	0.000
16.300	882.839	16,813.978	4,180.069	1,892.400	6,072.469	0.000	0.000	10,741.508	4,033.857	6,707.651
11,746.306	792.120	22,312.325	12,058.503	0.000	12,058.503	0.000	0.000	10,253.822	3,619.454	6,634.368
0.000	0.000	0.000	9,853.592	0.000	9,853.592	0.000	0.000	0.000	0.000	0.000
(11,210.306)	1,398.840	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
3,505.936	0.240	4,341.762	21,959.053	0.000	21,959.053	17,617.291	0.000	0.000	0.000	0.000
0.000	0.000	0.000	1.240	0.000	1.240	1.240	0.000	0.000	0.000	0.000
1,600.000	451.080	15,073.144	16,146.500	0.000	16,146.500	1,073.356	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	143.400	1,804.552	132.408	0.000	132.408	0.000	0.000	1,672.144	655.317	1,016.827
0.000	0.000	0.000	0.500	0.000	0.500	0.000	0.500	0.000	0.000	0.000
(1,100.000)	148.080	232.195	0.000	0.000	0.000	0.000	0.000	232.195	232.195	0.000
3,607.300	1,055.640	12,122.681	10,046.419	7,050.000	17,096.419	4,973.737	0.000	0.000	0.000	0.000
0.000	0.000	0.000	808.455	0.000	808.455	0.000	808.454	0.000	0.000	0.000
0.000	0.840	8.351	0.000	0.000	0.000	0.000	0.000	8.351	4.000	4.351
0.000	44.160	353.662	83.772	0.000	83.772	0.000	0.000	269.890	201.545	68.345
5,417.300	2,489.040	26,356.803	26,291.097	0.000	26,291.097	0.000	0.000	65.706	65.706	0.000
(2,500.000)	2,454.480	19,319.157	15,981.125	0.000	15,981.125	0.000	0.000	3,338.032	3,338.032	0.000
0.000	329.760	4,149.647	1,611.562	0.000	1,611.562	0.000	0.000	2,538.085	1,506.888	1,031.197
0.000	0.000	0.000	13.823	0.000	13.823	13.823	0.000	0.000	0.000	0.000
(1,600.000)	284.760	1,280.450	499.284	0.000	499.284	0.000	0.000	781.166	781.166	0.000
0.000	90.000	1,132.754	215.999	0.000	215.999	0.000	0.000	916.755	411.476	505.279
16.600	624.240	7,871.780	1,909.769	2,011.600	3,921.369	0.000	0.000	3,950.410	2,852.401	1,098.009
0.000	207.360	2,609.537	0.000	0.000	0.000	0.000	0.000	2,609.537	947.714	1,661.823
0.000	141.000	1,774.318	0.000	0.000	0.000	0.000	0.000	1,774.318	644.317	1,130.001
9,514.236	11,999.999	144,374.181	124,041.314	13,623.245	137,664.559	23,679.447	903.957	41,146.618	21,288.767	19,857.851
					9,853.592					
					127,810.967					

**APPROPRIATIVE POOL STORAGE ACCOUNT TRANSACTIONS
FISCAL YEAR 2004-2005**



Pool 3 Water / Storage Account Transactions

	Water Transactions					Carryover Beginning Balance
	Assigned Rights	General Transfer	Transfer from ECO Account	Recharged Recycled Water	Total Water Transactions	
Arrowhead Mtn Spring Water Co	0.000	0.000	0.000	0.000	0.000	0.000
Chino Hills, City Of	0.000	0.000	0.000	14.800	14.800	784.764
Chino, City Of	0.000	(5,350.000)	5,350.000	16.300	16.300	4,764.630
Cucamonga Valley Water District	11,210.306	(2,000.000)	2,500.000	36.000	11,746.306	1,078.171
Desalter Authority	0.000	0.000	0.000	0.000	0.000	17,375.769
Fontana Union Water Company	(11,210.306)	0.000	0.000	0.000	(11,210.306)	0.000
Fontana Water Company	0.000	3,505.458	0.478	0.000	3,505.936	0.000
Inland Empire Utilities Agency	0.000	0.000	0.000	0.000	0.000	0.000
Jurupa Community Services District	0.000	1,600.000	0.000	0.000	1,600.000	5,847.112
Los Serranos Country Club	0.000	0.000	0.000	0.000	0.000	0.000
Marygold Mutual Water Company	0.000	0.000	0.000	0.000	0.000	1,511.760
Metropolitan Water District	0.000	0.000	0.000	0.000	0.000	0.000
Monte Vista Irrigation Company	0.000	(1,100.000)	0.000	0.000	(1,100.000)	220.810
Monte Vista Water District	0.000	4,250.000	(650.000)	7.300	3,607.300	650.000
Niagara Water Company	0.000	0.000	0.000	0.000	0.000	0.000
Nicholson Trust	0.000	(5.458)	5.458	0.000	0.000	0.000
Norco, City Of	0.000	0.000	0.000	0.000	0.000	319.407
Ontario, City Of	0.000	5,350.000	0.000	67.300	5,417.300	0.000
Pomona, City Of	0.000	(2,500.000)	0.000	0.000	(2,500.000)	0.000
San Antonio Water Company	0.000	0.000	0.000	0.000	0.000	10,567.251
San Bernardino County Shtg Prk	0.000	0.000	0.000	0.000	0.000	0.000
Santa Ana River Water Company	0.000	(1,600.000)	0.000	0.000	(1,600.000)	0.000
So Cal Water Company	0.000	0.000	0.000	0.000	0.000	90.098
Upland, City Of	0.000	0.000	0.000	16.600	16.600	5,414.985
West End Consolidated Water Company	0.000	0.000	0.000	0.000	0.000	16,409.941
West Valley Water District	0.000	(2,150.000)	2,150.000	0.000	0.000	5,468.974
	0.000	0.000	9,355.936	158.300	9,514.236	70,503.672

Excess Carry Over Account (ECO)				Local Supplemental Storage Account				Combined	
Transfers to / from	From Local Supplemental Storage	From Under Production	Ending Balance	Carryover Beginning Balance	Tranfers to / from	MZI 6,500 Eligible for Storage	Transfer to Excess Carryover Account	Ending Balance	Combined Storage Account Balance
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	784.764	8,091.333	0.000	303.737	0.000	8,395.070	9,179.834
(5,350.000)	0.000	6,707.651	6,122.281	3,002.846	0.000	580.262	0.000	3,583.108	9,705.389
(2,500.000)	0.000	6,634.368	5,212.539	13,283.515	0.000	520.635	0.000	13,804.149	19,016.688
(4,926.796)	0.000	0.000	12,448.973	0.000	0.000	0.000	0.000	0.000	12,448.973
0.000	0.000	0.000	0.000	1,172.391	0.000	919.412	0.000	2,091.803	2,091.803
(0.478)	0.478	0.000	0.000	0.320	0.000	0.158	(0.478)	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	5,847.112	866.728	0.000	296.480	0.000	1,163.208	7,010.320
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	1,016.827	2,528.587	2,172.057	0.000	94.252	0.000	2,266.309	4,794.896
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	220.810	7,299.841	0.000	97.328	0.000	7,397.170	7,617.980
650.000	0.000	0.000	1,300.000	5,995.718	0.000	693.838	0.000	6,689.557	7,989.557
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(5.458)	1.107	4.351	0.000	1.178	0.000	0.552	(1.107)	0.623	0.623
0.000	0.000	68.345	387.752	84.851	0.000	29.025	0.000	113.876	501.628
0.000	0.000	0.000	0.000	14,006.424	0.000	1,635.966	0.000	15,642.390	15,642.390
0.000	0.000	0.000	0.000	13,555.175	0.000	1,613.250	0.000	15,168.426	15,168.426
0.000	0.000	1,031.197	11,598.448	633.617	0.000	216.741	0.000	850.358	12,448.805
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	372.792	0.000	187.164	0.000	559.956	559.956
0.000	0.000	505.279	595.377	1,725.430	0.000	59.154	0.000	1,784.584	2,379.961
0.000	0.000	1,098.009	6,512.994	8,029.798	0.000	410.293	0.000	8,440.091	14,953.085
0.000	0.000	1,661.823	18,071.764	398.432	0.000	136.291	0.000	534.723	18,606.487
(2,150.000)	0.000	1,130.001	4,448.975	270.924	0.000	92.675	0.000	363.599	4,812.574
(14,282.732)	1.585	19,857.851	76,080.376	80,963.372	0.000	7,887.212	(1.585)	88,848.999	164,929.374

APPROPRIATIVE POOL ASSESSMENT FEE SUMMARY FISCAL YEAR 2004-2005



Assessment Year 2005-2006 (Production Year 2004-2005)

Pool 3 Assessment Fee Summary

	Appropriative Pool				Ag Pool SY Reallocation		Reple
	AF Production	\$5.92 AF/Admin	\$22.02 AF/OBMP	AF Total Reallocation	\$204,098.00	\$758,571.00	\$37.65 AF/15%
					\$4.22 AF/Admin	\$15.69 AF/OBMP	
Arrowhead Mtn Spring Water Co	95.004	562.42	2,091.98	0.000	0.00	0.00	0.00
Chino Hills, City Of	4,822.385	28,548.52	106,188.92	2,117.085	8,936.85	33,215.60	38,804.69
Chino, City Of	6,072.469	35,949.02	133,715.77	7,846.846	33,123.90	123,111.58	48,863.85
Cucamonga Valley Water District	12,058.503	71,386.34	265,528.24	2,534.852	10,700.37	39,770.07	97,032.17
Desalter Authority	0.000	5.00	0.00	0.000	0.00	0.00	0.00
Fontana Union Water Company	0.000	5.00	0.00	3,419.730	14,435.71	53,653.20	0.00
Fontana Water Company	21,959.053	129,997.60	483,538.36	834.587	3,523.04	13,094.09	176,699.76
Inland Empire Utilities Agency	1.240	7.34	27.30	0.000	0.00	0.00	9.98
Jurupa Community Services District	16,146.500	95,587.28	355,545.93	10,960.947	46,269.45	171,969.67	129,927.40
Los Serranos Country Club	0.000	5.00	0.00	0.000	0.00	0.00	0.00
Marygold Mutual Water Company	132.408	783.86	2,915.62	350.569	1,479.86	5,500.18	0.00
Metropolitan Water District	0.500	5.00	11.01	0.000	0.00	0.00	0.00
Monte Vista Irrigation Company	0.000	5.00	0.00	362.010	1,528.15	5,679.68	0.00
Monte Vista Water District	17,096.419	101,210.80	376,463.15	2,635.787	11,126.45	41,353.68	137,571.19
Niagara Water Company	808.455	4,786.05	17,802.17	0.000	0.00	0.00	0.00
Nicholson Trust	0.000	5.00	0.00	2.054	8.67	32.22	0.00
Norco, City Of	83.772	495.93	1,844.66	107.958	455.72	1,693.78	674.10
Ontario, City Of	26,291.097	155,643.29	578,929.95	7,076.648	29,872.66	111,027.71	211,558.78
Pomona, City Of	15,981.125	94,608.26	351,904.37	6,000.442	25,329.67	94,142.79	0.00
San Antonio Water Company	1,611.562	9,540.45	35,486.60	806.161	3,403.05	12,648.11	12,967.89
San Bernardino County Shtg Prk	13.823	81.83	304.39	0.000	0.00	0.00	111.23
Santa Ana River Water Company	499.284	2,955.76	10,994.23	696.150	2,938.66	10,922.11	4,017.63
So Cal Water Company	215.999	1,278.71	4,756.29	220.022	928.78	3,451.99	1,738.09
Upland, City Of	3,921.369	23,214.51	86,348.55	1,526.073	6,442.01	23,943.03	31,554.41
West End Consolidated Water Compa	0.000	5.00	0.00	506.931	2,139.91	7,953.39	0.00
West Valley Water District	0.000	5.00	0.00	344.701	1,455.09	5,408.12	0.00
	127,810.967	756,677.97	2,814,397.50	48,349.550	204,098.00	758,571.00	891,531.18

Assessment Assessments		85/15 Water Transaction Activity				ASSESSMENTS DUE			
\$213.35 AF/85%	\$251.00 AF/100%	15% Producer Credits	15% Pro-rated Debits	Pomona Credit	Previous Year Adj	Total Production Based	MZ1 Supp- lemental Water	Recharge Debt Payment	Total Due
0.00	23,846.00	0.00	0.00	0.00	0.00	26,500.41	0.00	0.00	26,500.41
0.00	0.00	0.00	20,287.93	2,567.35	0.00	238,549.86	0.00	11,553.00	250,102.86
0.00	0.00	(176,550.00)	25,547.07	4,904.69	0.00	228,665.88	0.00	22,071.00	250,736.88
0.00	0.00	(81,675.00)	50,730.50	4,400.69	0.00	457,873.37	0.00	19,803.00	477,676.37
0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.00	0.00	5.00
0.00	0.00	0.00	0.00	7,771.37	0.00	75,865.28	0.00	34,971.00	110,836.28
3,758,649.03	0.00	(33,269.10)	92,382.43	1.33	0.00	4,624,616.54	0.00	6.00	4,624,622.54
264.55	0.00	0.00	5.22	0.00	0.00	314.39	0.00	0.00	314.39
229,000.29	0.00	0.00	67,928.83	2,506.01	0.00	1,098,734.87	0.00	11,277.00	1,110,011.87
0.00	0.00	0.00	0.00	0.00	0.00	5.00	0.00	0.00	5.00
0.00	0.00	0.00	0.00	796.67	0.00	11,476.18	0.00	3,585.00	15,061.18
0.00	125.50	0.00	0.00	0.00	0.00	141.51	0.00	0.00	141.51
0.00	0.00	(37,125.00)	0.00	822.67	0.00	(29,089.50)	0.00	3,702.00	(25,387.50)
1,061,147.00	0.00	0.00	71,925.17	5,864.70	0.00	1,806,662.14	0.00	26,391.00	1,833,053.14
0.00	202,922.21	0.00	0.00	0.00	0.00	225,510.43	0.00	0.00	225,510.43
0.00	0.00	0.00	0.00	4.67	0.00	50.55	0.00	21.00	71.55
0.00	0.00	0.00	352.43	245.33	0.00	5,761.95	0.00	1,104.00	6,865.95
0.00	0.00	(2,072.52)	110,607.47	13,828.07	0.00	1,209,395.41	0.00	62,226.00	1,271,621.41
0.00	0.00	(79,500.00)	0.00	(53,030.93)	0.00	433,484.15	0.00	61,362.00	494,816.15
0.00	0.00	0.00	6,779.89	1,832.01	0.00	82,657.99	0.00	8,244.00	90,901.99
2,949.14	0.00	0.00	58.15	0.00	0.00	3,504.75	0.00	0.00	3,504.75
0.00	0.00	(55,920.00)	2,100.50	1,582.01	0.00	(20,409.11)	0.00	7,119.00	(13,290.11)
0.00	0.00	0.00	908.71	500.00	0.00	13,562.58	0.00	2,250.00	15,812.58
0.00	0.00	0.00	16,497.32	3,468.02	0.00	191,467.86	0.00	15,606.00	207,073.86
0.00	0.00	0.00	0.00	1,152.01	0.00	11,250.31	0.00	5,184.00	16,434.31
0.00	0.00	0.00	0.00	783.34	0.00	7,651.55	0.00	3,525.00	11,176.55
5,052,010.02	226,893.71	(466,111.62)	466,111.62	0.00	0.00	10,704,179.37	0.00	300,000.00	11,004,179.37

**APPROPRIATIVE POOL
WATER TRANSACTIONS - RECAPTURE/SALES/TRANSFERS REPORTED
FISCAL YEAR 2004-2005**

The Watermaster Board approved the following transactions:

Date	Description
August 25, 2005	<ul style="list-style-type: none"> • Purchase of Right to Produce Water in Storage from the West Valley Water District to the Fontana Water Company in the amount of 1,000 acre-feet. • Purchase of Right to Produce Water in Storage from the Cucamonga Valley Water District to the Fontana Water Company in the amount of 2,500 acre-feet. • Purchase of Right to Produce Water in Storage and Annual Production Right from the Nicholson Trust to the Fontana Water Company in the amount of 5.458 acre-feet.
July 28, 2005	<ul style="list-style-type: none"> • Purchase of Right to Produce Water in Storage from the City of Chino to the City of Ontario in the amount of 5,350 acre-feet. • Purchase of Right to Produce Water in Storage from the West Valley Water District to the Cucamonga Valley Water District in the amount of 500 acre-feet.
June 23, 2005	<ul style="list-style-type: none"> • Lease and assignment of Safe Yield from the Santa Ana River Water Company to the Jurupa Community Services District in the amount of 1,600 acre-feet.
November 18, 2004	<ul style="list-style-type: none"> • Purchase of Water in Storage from the City of Pomona to the Monte Vista Water District in the amount of 2,500 acre-feet.
October 28, 2004	<ul style="list-style-type: none"> • Transfer of 1,100 acre-feet of Monte Vista Irrigation Company's Fiscal Year 2004-2005 Annual Production Right to Monte Vista Water District. • Purchase of Water in Storage from the West Valley Water District to the Monte Vista Water District in the amount of 650 acre-feet. Water purchased through this transaction was placed in Monte Vista Water District's Local Storage Account.

APPROPRIATIVE POOL WATER TRANSACTION SUMMARY FISCAL YEAR 2004-2005



Chino Basin Watermaster Assessment Breakdown 2005-2006 Water Transactions

Assessment Year 2005-2006 (Production Year 2004-2005)

To:	From:	Date of Submittal	Quantity	\$ / Acre Feet	Total \$	85%	15% WM Pays	
Cucamonga Valley Water District	West Valley Water District	2/24/2005	500.000	202.00	101,000.00	0.00	0.00	
Fontana Water Company	Cucamonga Valley Water District	5/27/2005	2,500.000	217.80	544,500.00	462,825.00	81,675.00	Cucamonga Valley Water District
	Nicholson Trust	6/9/2005	5.458	217.80	1,188.75	1,010.44	178.31	Fontana Water Company
	West Valley Water District	5/27/2005	1,000.000	210.00	210,000.00	178,500.00	31,500.00	Fontana Water Company
Jurupa Community Services District	Santa Ana River Water Company	3/11/2005	1,600.000	233.00	372,800.00	316,880.00	55,920.00	Santa Ana River Water Company
Monte Vista Water District	Monte Vista Irrigation Company	7/26/2004	1,100.000	225.00	247,500.00	210,375.00	37,125.00	Monte Vista Irrigation Company
	Pomona, City Of	9/1/2004	2,500.000	212.00	530,000.00	450,500.00	79,500.00	Pomona, City Of
	<i>Original letter stated in error that water was to be placed in MVWD's Local Storage Account, but it is to be used to offset overproduction.</i>							
	West Valley Water District	7/26/2004	650.000	210.00	136,500.00	0.00	0.00	
	<i>Water purchased through transaction to be placed in MVWD's Local Storage Account. No recapture application submitted at this time.</i>							
Ontario, City Of	Chino, City Of	4/20/2005	5,350.000	220.00	1,177,000.00	1,000,450.00	176,550.00	Chino, City Of
			15,205.458		\$3,320,488.75	\$2,620,540.44	\$462,448.31	
ASSIGNMENTS								
Praxair Inc	Fontana Water Company	6/30/2005	-19.990	1.00	-19.99	-16.99	-3.00	Fontana Water Company
	<i>Praxair prior year assessments. Adjusted this year to correct previous 2 year error.</i>							
	Fontana Water Company	6/30/2005	125.003	85.00	10,625.26	9,031.47	1,593.79	Fontana Water Company
	<i>Assignment Well 0800007 - Acre feet already reflected in production - no transactions recorded.</i>							
Sunkist Growers Inc	Ontario, City Of	6/30/2005	69.084	200.00	13,816.80	11,744.28	2,072.52	Ontario, City Of
	<i>Assignment Well 0800008. Acre feet already reflected in production - no transactions recorded.</i>							
			174.097		\$24,422.07	\$20,758.76	\$3,663.31	
						Total Credits	\$466,111.62	

APPROPRIATIVE POOL LAND USE CONVERSION SUMMARY FISCAL YEAR 2004-2005



Chino Basin Watermaster Assessment Breakdown 2005-2006 Land Use Conversion Summary

Assessment Year 2005-2006 (Production Year 2004-2005)

AGRICULTURAL POOL SUMMARY IN ACRE FEET

Agricultural Pool Safe Yield	82,800.00
Agricultural Total Pool Production	(34,450.45)
Early Transfer	(32,800.00)
Total Land Use Conversions	(19,013.27)
Under(Over) Production:	(3,463.72)

	Prior Converted	Acres Converted @ 1.3 af/ac		Total Prior to Peace Agrmt Converted AF	Acres Converted @ 2.0 af/ac		Total Land Use Conversations Acre-Feet
		Acres	Acre Feet		Acres	Acre Feet	
Chino Hills, City Of	0.000	670.266	871.346	871.346	58.000	116.000	987.346
Chino, City Of	196.235	1,454.750	1,891.175	2,087.410	1,800.583	3,601.166	5,688.576
Cucamonga Valley Water Distric	0.000	460.280	598.364	598.364	0.000	0.000	598.364
Fontana Water Company	0.000	0.000	0.000	0.000	417.000	834.000	834.000
Jurupa Community Services Dist	0.000	2,756.920	3,583.996	3,583.996	3,137.100	6,274.200	9,858.196
Monte Vista Water District	0.000	28.150	36.595	36.595	9.240	18.480	55.075
Ontario, City Of	209.400	527.044	685.157	894.557	48.580	97.160	991.717
	405.635	5,897.410	7,666.600	8,072.200	5,470.503	10,941.006	19,013.274

NON-AGRICULTURAL POOL PRODUCTION SUMMARY FISCAL YEAR 2004-2005



Assessment Year 2005-2006 (Production Year 2004-2005)

Pool 2 Water Production Summary

	Carryover Beginning Balance	Prior Year Adjustments	Assigned Share of Operating Safe Yield (AF)	Water Transaction Activity	Annual Production Right	Actual Fiscal Year Production	Net Over Production	Under Production Balances		
								Total Under-Produced	Carryover: Next Year Begin Bal	To Local Storage Account
Ameron Inc	97.858	0.000	97.858	0.000	195.716	0.000	0.000	195.716	97.858	97.858
Angelica Textile Service	0.000	0.000	18.789	0.000	18.789	28.815	10.026	0.000	0.000	0.000
California Speedway	1,000.001	0.000	1,000.000	0.000	2,000.000	522.532	0.000	1,477.468	1,000.000	477.468
California Steel Industries Inc	1,300.000	0.000	1,300.000	0.000	2,600.000	0.000	0.000	2,600.000	1,300.000	1,300.000
CCG Ontario, Lic	630.274	0.000	630.274	0.000	1,260.548	0.000	0.000	1,260.548	630.274	630.274
General Electric Corporation	0.000	0.000	0.000	0.000	0.000	23.662	23.661	0.000	0.000	0.000
Praxair Inc	427.446	0.000	427.446	0.000	854.892	125.003	0.000	729.889	427.446	302.443
Reliant Energy Etiwanda	904.249	0.000	954.540	0.000	1,858.789	517.054	0.000	1,341.735	954.540	387.195
San Bernardino Cty (Chino Airport)	133.870	0.000	133.870	0.000	267.740	80.227	0.000	187.513	133.870	53.643
Southern California Edison Company	27.959	0.000	27.959	0.000	55.918	0.000	0.000	55.918	27.959	27.959
Space Center Mira Loma Inc.	0.000	0.000	104.121	110.751	214.872	214.872	0.000	0.000	0.000	0.000
Sunkist Growers Inc	1,873.402	0.000	1,873.402	0.000	3,746.804	453.033	0.000	3,293.771	1,873.402	1,420.369
Swan Lake Mobile Home Park	464.241	0.000	464.240	0.000	928.481	357.073	0.000	571.407	464.240	107.167
Vulcan Materials Company	317.845	0.000	317.844	0.000	635.688	4.565	0.000	631.122	317.844	313.278
West Venture Development	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	7,177.145	0.000	7,350.343	110.751	14,638.237	2,326.836	33.687	12,345.087	7,227.433	5,117.654

**NON-AGRICULTURAL POOL STORAGE ACCOUNT TRANSACTIONS
FISCAL YEAR 2004-2005**



Assessment Year 2005-2006 (Production Year 2004-2005)

Pool 2 Water / Storage Account Transactions

	Local Storage Account		
	Carryover Beginning Balance	Transfers to / from Annual	Ending Balance
Ameron Inc	1,755.995	97.858	1,853.853
Angelica Textile Service	0.000	0.000	0.000
California Speedway	237.921	477.468	715.389
California Steel Industries Inc	1,300.000	1,300.000	2,600.000
CCG Ontario, Llc	7,593.140	630.274	8,223.414
General Electric Corporation	0.000	0.000	0.000
Kaiser Ventures Inc	0.000	0.000	0.000
Loving Savior Of The Hills	0.000	0.000	0.000
Praxair Inc	3,812.493	302.443	4,114.936
Reliant Energy Etiwanda	5,566.943	387.195	5,954.138
San Bernardino Cty (Chino Airport)	70.489	53.643	124.132
Southern California Edison Company	139.795	27.959	167.754
Space Center Mira Loma Inc.	204.130	(110.751)	93.379
Sunkist Growers Inc	9,941.989	1,420.369	11,362.358
Swan Lake Mobile Home Park	2,065.353	107.167	2,172.520
Vulcan Materials Company	8,193.045	313.278	8,506.323
West Venture Development	0.000	0.000	0.000
	40,881.293	5,006.903	45,888.196

NON-AGRICULTURAL POOL ASSESSMENT FEE SUMMARY FISCAL YEAR 2004-2005



Assessment Year 2005-2006 (Production Year 2004-2005)

Pool 2 Assessment Fee Summary

	Non-Agricultural Pool			Replenishment Assessments		Previous Year Adj	Total Assessments Due
	AF Production	\$5.92 Per AF Admin	\$22.02 Per AF OBMP	AF Exceeding Safe Yield	\$251.00 Per AF		
Ameron Inc	0.000	0.00	0.00	0.000	0.00	0.00	0.00
Angelica Textile Service	28.815	170.59	634.52	10.026	2,516.53	0.00	3,321.63
California Speedway	522.532	3,093.39	11,506.15	0.000	0.00	0.00	14,599.54
California Steel Industries Inc	0.000	0.00	0.00	0.000	0.00	0.00	0.00
CCG Ontario, Llc	0.000	0.00	0.00	0.000	0.00	0.00	0.00
General Electric Corporation	23.662	140.08	521.04	23.661	5,939.16	0.00	6,600.28
Kaiser Ventures Inc	0.000	0.00	0.00	0.000	0.00	0.00	0.00
Loving Savior Of The Hills	0.000	0.00	0.00	0.000	0.00	0.00	0.00
Praxair Inc	125.003	740.02	2,752.57	0.000	0.00	0.00	3,492.58
Reliant Energy Etiwanda	517.054	3,060.96	11,385.53	0.000	0.00	0.00	14,446.48
San Bernardino Cty (Chino Airport)	80.227	474.94	1,766.60	0.000	0.00	0.00	2,241.54
Southern California Edison Compa	0.000	0.00	0.00	0.000	0.00	0.00	0.00
Space Center Mira Loma Inc.	214.872	1,272.04	4,731.48	0.000	0.00	0.00	6,003.52
Sunkist Growers Inc	453.033	2,681.96	9,975.79	0.000	0.00	0.00	12,657.74
Swan Lake Mobile Home Park	357.073	2,113.87	7,862.75	0.000	0.00	0.00	9,976.62
Vulcan Materials Company	4.565	27.03	100.53	0.000	0.00	0.00	127.56
West Venture Development	0.000	0.00	0.00	0.000	0.00	0.00	0.00
	2,326.836	13,774.87	51,236.94	33.687	8,455.69	0.00	73,467.50

HISTORIC ASSESSMENTS PER ACRE-FOOT OF PRODUCTION

Fiscal Year	Agricultural Pool ¹ (\$/AF)	Non-Ag Pool (\$/AF)	Appropriative Pool ² (\$/AF)	Gross Replenishment ¹ Water Rate (\$/AF)
77-78	0.29	0.32	0.42	
78-79	0.65	1.29	0.77	51.00
79-80	0.54	0.20	0.51	56.20
80-81	0.32	0.00	0.00	62.51
81-82	0.10	0.00	0.00	63.78
82-83	0.10	0.00	0.00	81.46
83-84	0.10	0.00	0.00	102.18
84-85	0.10	0.00	0.10	154.00
85-86	0.10	0.00	0.45	149.39
86-87	0.10	0.00	0.41	155.10
87-88	0.10	0.00	0.25	155.42
88-89	0.09	0.00	0.67	155.33
89-90	3.27	0.00	0.48	115.00
90-91	2.31	0.00	0.43	117.55
91-92	3.53	0.12	0.11	132.55
92-93	7.03	4.07	3.41	169.89
93-94	12.37	6.67	2.51	210.69
94-95	9.86	3.24	2.06	222.00
95-96	11.68	3.43	1.57	233.15
96-97	19.70	7.55	3.69	233.15
97-98	15.19	6.56	2.73	237.15
98-99	19.04	9.85	7.77	243.00
99-00	26.30	14.12	11.75	243.00
00-01	18.15	25.79	24.74	242.00
01-02	34.37	29.93	25.42	243.00
02-03	35.69	26.72	21.35	244.00
03-04	34.10	25.39	22.90	244.00
04-05	26.15	25.43	25.43	250.00

¹ \$/AF of water reallocated to the Appropriative Pool.

² Excludes amounts related to the debt service of the Recharge Improvement Project and supplemental and replenishment water purchases.

SUMMARY BUDGET FISCAL YEAR 2004-2005

	FY 02-03 June Actual	FY 03-04 December Actual	FY 03-04 Current Budget	FY 04-05 Proposed Budget	Current vs. Proposed
Ordinary Income/Expense					
4000 Mutual Agency Revenue	\$25,879	\$169,209	\$0	\$132,000	\$132,000
4110 Admin Asmnts-Approp Pool	4,470,785	4,614,056	3,931,695	3,755,237	-176,458
4120 Admin Asmnts-Non-Agri Pool	149,042	122,931	88,201	97,652	9,451
4730 Prorated Interest Income	93,887	23,780	112,025	78,330	-33,695
Total Income	4,739,593	4,929,976	4,131,921	4,063,219	-68,702
Administrative Expenses					
6010 Salary Costs	480,736	246,298	385,900	401,704	15,804
6020 Office Building Expense	80,097	125,176	108,995	100,800	-8,195
6030 Office Supplies & Equip.	26,201	37,070	41,000	48,000	7,000
6040 Postage & Printing Costs	64,479	33,595	66,400	67,100	700
6050 Information Services	98,349	65,502	105,750	105,076	-674
6060 WM Special Contract Services	181,083	22,984	121,000	106,000	-15,000
6080 Insurance Expense	14,047	10,510	16,710	21,710	5,000
6110 Dues and Subscriptions	19,688	8,693	14,500	16,600	2,100
6150 Field Supplies & Equipment	3,424	470	4,250	4,250	0
6170 Vehicle Maintenance Costs	25,997	32,569	46,300	24,650	-21,650
6190 Conferences & Seminars	16,520	8,804	16,000	16,000	0
6200 Advisory Committee Expenses	13,738	6,705	15,071	13,459	-1,612
6300 Watermaster Board Expenses	25,677	11,360	28,371	23,559	-4,812
6500 Education Fund Expenditures	375	0	375	375	0
8300 Appropriative Pool Administration	14,129	6,744	14,471	13,659	-812
8400 Agricultural Pool Administration	71,706	184,933	233,979	71,417	-162,562
8500 Non-Agricultural Pool Administration	4,405	1,199	6,698	6,077	-621
9500 Allocated G&A Expenditures	-197,076	-120,955	-309,073	-290,106	18,967
Total Administrative Expenses	943,575	681,657	916,697	750,330	-166,367
General OBMP Expenditures					
6900 Optimum Basin Mgmt Program	882,424	355,859	942,065	933,566	-8,499
6950 Cooperative Efforts	78,158	34,750	85,004	80,004	-5,000
9501 Allocated G&A Expenditures	56,636	30,427	91,999	85,617	-6,382
Total General OBMP Expenditures	1,017,218	421,036	1,119,068	1,099,187	-19,881
7000 OBMP Implementation Projects					
7101 Production Monitoring	29,662	37,835	79,283	54,957	-24,326
7102 In-Line Meter Installation/Maintenance	421,978	20,637	131,380	93,969	-37,411
7103 Groundwater Quality Monitoring	193,722	164,968	274,613	148,792	-125,821
7104 Groundwater Level Monitoring	84,285	48,061	157,852	135,072	-22,780
7105 Surface Water Quality Monitoring	56,404	26,571	133,595	282,220	148,625
7106 Water Level Sensors Install	28,956	0	26,835	19,114	-7,721
7107 Ground Level Monitoring	711,916	76,309	202,283	433,720	231,437
7108 Hydraulic Control Monitoring Program	18,097	98,942	718,227	437,987	-280,240
7200 OBMP Pgm Element 2 - Comp Recharge Program	222,392	83,744	531,434	413,177	-118,257
7300 OBMP Program Element 3 & 5 - Water Supply Plan - Desalter	5,710	1,620	47,499	20,885	-26,614
7400 OBMP Pgm Element 4 - Mgmt Zone Mgmt Strategies	430,077	117,059	187,308	795,099	607,791
7500 OBMP Pgm Element 6 & 7 - Coop Efforts/Salt Mgmt	114,242	20,658	51,820	251,343	199,523
7600 OBMP Pgm Element 8 & 9 Storage Mgmt/Conj Use	39,809	36,275	146,179	140,400	-5,779
7700 Inactive Well Protection Program	0	58	30,447	28,302	-2,145
7690 Recharge Improvement Debt Payment	429,250	376,169	429,250	274,169	-155,081
9502 Allocated G&A Expenditures	140,440	90,529	217,074	204,488	-12,586
Total OBMP Implementation Projects	2,926,940	1,199,435	3,365,079	3,733,694	368,615
Total Expenses	4,887,733	2,302,128	5,400,844	5,583,212	182,368
Net Ordinary Income	-148,140	2,627,848	-1,268,923	-1,519,993	-251,070
Other Income					
4210 Approp Pool-Replenishment	1,424,041	4,144,461	0	0	0
4220 Non-Ag Pool-Replenishment	49,682	11,288	0	0	0
4230 Groundwater Recharge Activity	1,586,000	1,585,854	2,189,500	2,179,500	-10,000
Total Other Income	3,059,723	5,741,603	2,189,500	2,179,500	-10,000
Other Expense					
5010 Groundwater Recharge	2,998,169	356,600	2,273,500	2,278,500	5,000
Total Other Expense	2,998,169	356,600	2,273,500	2,278,500	5,000
Net Other Income	61,554	5,385,003	-84,000	-99,000	-15,000
9800 From / (To) Reserves	86,586	-8,012,851	1,352,923	1,618,993	266,070
Net Income	\$0	\$0	\$0	\$0	\$0

**CHINO BASIN WATERMASTER
BASIC FINANCIAL STATEMENTS AND SUPPLEMENTAL DATA
YEAR ENDED JUNE 30, 2005**

CHINO BASIN WATERMASTER
Basic Financial Statements and Supplemental Data
Year ended June 30, 2005

TABLE OF CONTENTS

	<u>Page</u>
Independent Auditors' Report	1
Management's Discussion and Analysis (Required Supplementary Information)	2
Basic Financial Statements:	
Statement of Net Assets	5
Statement of Revenues, Expenses and Changes in Net Assets	6
Statement of Cash Flows	7
Notes to the Basic Financial Statements	8
Supplementary Information:	
Combining Schedule of Revenues, Expenses, and Changes in Working Capital - For the Period July 1, 2004 through June 30, 2005	19
Combining Schedule of Revenues, Expenses, and Changes in Working Capital - For the Period July 1, 2003 through June 30, 2004	20

Board of Directors
Chino Basin Watermaster
Rancho Cucamonga, California

Independent Auditors' Report

We have audited the accompanying basic financial statements of the Chino Basin Watermaster as of and for the year ended June 30, 2005, as listed in the accompanying table of contents. These basic financial statements are the responsibility of Chino Basin Watermaster's management. Our responsibility is to express an opinion on these basic financial statements based on our audit.

We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the basic financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the basic financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audit provides a reasonable basis for our opinion.

In our opinion, the basic financial statements referred to above present fairly, in all material respects, the financial position of Chino Basin Watermaster as of June 30, 2005 and the results of its operations and the cash flows for the year then ended in conformity with accounting principles generally accepted in the United States of America.

The information identified in the accompanying table of contents as *management's discussion and analysis* is not a required part of the basic financial statements, but is supplementary information required by accounting principles generally accepted in the United States of America. We have applied certain limited procedures, which consisted principally of inquiries of management regarding the methods of measurement and presentation of the supplementary information. However, we did not audit the information and do not express an opinion on it.

Our audit was made for the purpose of forming an opinion on the basic financial statements that collectively comprise the Chino Basin Watermaster's basic financial statements. The supplementary information is presented for purposes of additional analysis of the basic financial statements and is not a required part of the basic financial statements. The supplementary information has been subjected to the auditing procedures applied in the examination of the basic financial statements and, in our opinion, is fairly stated in all material respects in relation to the basic financial statements taken as a whole.

Conrad and Associates, LLP

August 19, 2005



CHINO BASIN WATERMASTER

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MANAGEMENT'S DISCUSSION AND ANALYSIS

BACKGROUND

The Chino Basin Watermaster (Watermaster) was established under a Judgment entered in the Superior Court of the State of California for the County of San Bernardino, entitled "Chino Basin Municipal Water District v. City of Chino, et al.," (originally Case No. SCV 164327, the file was transferred in August 1989 and assigned a new Case No. RCV 51010). The judgment prescribes Watermaster's authorities and specifies classes of water production assessments to be used to fund certain activities. Those assessment categories are: administration, OBMP, special project and replenishment. Each class of assessment has a prescribed purpose and water production base. Assessment revenue is Watermaster's principal source of income.

Watermaster's operating revenues include not only funds for administrative, OBMP, special project and replenishment expenses collected in accordance with the annual budget, but also includes money collected by appropriators to help pay for improvements to recharge basins within our boundaries and contributions received on behalf of expenditures related to cooperative projects as approved through the budget process.

The Unrestricted Net Asset amount listed on the Statement of Net Assets includes assessments on production of water in excess of production rights. These funds will be used to purchase replenishment water to mitigate annual overdraft in the coming year.

BASIC FINANCIAL STATEMENTS

To comply with new government accounting standards, all of Watermaster's assessment funds have been compiled into a single set of comprehensive interrelated financial statements. The financial statements that accompany this report include Statement of Net Assets, Statements of Revenues, Expenses and Changes in Net Assets, and Statements of Cash Flows. Also included are various notes providing additional explanation and detail relating to this financial information.

The Statement of Net Assets lists Watermaster's total assets, liabilities, and net assets, or the amount of assets free of debt, as of June 30, 2005. The Statements of Revenues, Expenses and Changes in Net Assets list Watermaster's income for the year compared to its expenses. Additionally, these statements identify the gain or loss in net assets for 2005. Finally, the Statements of Cash Flows indicate how cash was received and spent throughout the past year, highlighting the net change in cash and investments for 2005.

SUMMARY OF FINANCIAL INFORMATION

For the year ended June 30, 2005, Watermaster's Total Net Assets was \$8,843,808. This balance includes cash that will be required to purchase water to meet the replenishment obligation incurred during the previous fiscal year.

MANAGEMENT'S DISCUSSION AND ANALYSIS

**June 30, 2005
(With comparative totals for June 30, 2004)**

	<u>2005</u>	<u>2004</u>
Assets		
Current	\$ 9,770,452	\$ 8,967,186
Capital	<u>79,179</u>	<u>106,641</u>
Total Assets	9,849,631	9,073,827
Liabilities		
Current	940,226	535,428
Non current	<u>65,597</u>	<u>46,691</u>
Total Liabilities	1,005,823	582,119
Net Assets		
Invested in capital assets	79,179	106,641
Unrestricted	<u>8,764,629</u>	<u>8,385,067</u>
Total Net Assets	<u>\$ 8,843,808</u>	<u>\$ 8,491,708</u>

REVIEW OF REVENUES AND EXPENSES

Administrative assessment revenue increased from the prior year by 3.1%. There was a significant increase in mutual agency project revenues over the prior year attributable to contributions from other agencies relating to cost sharing and financial contributions related to Watermaster's monitoring programs. Replenishment assessment revenue also increased 96.6% due to a significant increase in production in excess of rights.

Although there was a slight decrease in administrative expenditures, overall operating expenses (excluding replenishment activities) increased over the prior year from \$4,389,120 to \$5,087,880. This increase in expenses relates to budgeted increases in monitoring costs, hydraulic control related costs and general OBMP related expenditures.

Non-operating revenue represented interest income of \$211,595 and \$91,863 for the years ending June 30, 2005 and June 30, 2004. This increase in income relates directly to the substantial increase in the deposits held to purchase replenishment water.

The financial condition of the Watermaster changed as indicated by the change in the Net Assets from the prior year in the amount of \$352,100.

MANAGEMENT'S DISCUSSION AND ANALYSIS

June 30, 2005

(With comparative totals for June 30, 2004)

	<u>2005</u>	<u>2004</u>
Operating Revenues		
Administrative assessments (note 1)	\$ 4,881,245	\$ 4,736,516
Mutual agency project revenue	895,836	301,209
Replenishment water	8,097,108	4,135,998
MZ1 supplemental water assessments	1,625,000	1,585,854
Miscellaneous revenue	<u>3,865</u>	<u>-</u>
Total Operating Revenues	<u>15,503,054</u>	<u>10,759,577</u>
Operating Expenses		
Watermaster administration	707,233	726,638
Depreciation	27,462	28,804
Pool, Advisory and Board administration	151,477	311,099
Educational	-	375
Optimum Basin Management Plan	4,144,077	3,240,788
Mutual agency project costs	57,631	81,416
Groundwater replenishment	10,125,526	984,671
MZ1 imported water	<u>149,143</u>	<u>870,623</u>
Total Operating Expenses	<u>15,362,549</u>	<u>6,244,414</u>
Income from operations	<u>140,505</u>	<u>4,515,163</u>
Non-Operating Revenues		
Interest	<u>211,595</u>	<u>91,863</u>
Total Nonoperating Revenues	<u>211,595</u>	<u>91,863</u>
Change in net assets	352,100	4,607,026
Net assets at beginning of year, as restated	<u>8,491,708</u>	<u>3,884,682</u>
Total net assets at end of year	<u>\$ 8,843,808</u>	<u>\$ 8,491,708</u>

COMPARISON OF FY 2004-2005 ADMINISTRATION BUDGET TO ACTUAL REVENUES/EXPENSE

The revenue exceeded budget primarily from assessments related to replenishment obligations incurred and because actual cash on hand at the end of the fiscal year which was used to offset assessments, was less than forecasted when the budget was prepared.

Actual operating expenses fell short of the budget while the replenishment water purchases exceeded the budgeted amount. This was due to a reduction in planned expenses related to certain management zones within the basin.

Administration recorded an increase in change in net assets for the year ending June 30, 2005, compared to a budgeted loss \$1,618,993 million. This planned operating deficit was the result of a budgeted usage of accumulated net assets.

CHINO BASIN WATERMASTER

Statement of Net Assets

June 30, 2005

(with comparative totals for June 30, 2004)

<u>Assets</u>	<u>Total</u>	<u>2004</u>
Current assets:		
Cash and investments (note 2)	\$ 8,795,321	8,763,233
Accounts receivable	941,025	167,905
Prepaid expenses	<u>34,106</u>	<u>36,048</u>
Total current assets	<u>9,770,452</u>	<u>8,967,186</u>
Noncurrent assets:		
Capital assets, net of accumulated depreciation (note 3)	<u>79,179</u>	<u>106,641</u>
Total noncurrent assets	<u>79,179</u>	<u>106,641</u>
Total assets	<u>9,849,631</u>	<u>9,073,827</u>
 <u>Liabilities</u>		
Current liabilities:		
Accounts payable	904,450	527,307
Accrued salaries and benefits	<u>35,776</u>	<u>8,121</u>
Total current liabilities	<u>940,226</u>	<u>535,428</u>
Noncurrent liabilities:		
Compensated absences (note 4)	<u>65,597</u>	<u>46,691</u>
Total noncurrent liabilities	<u>65,597</u>	<u>46,691</u>
Total liabilities	<u>1,005,823</u>	<u>582,119</u>
 <u>Net Assets</u>		
Net assets:		
Invested in capital assets	79,179	106,641
Unrestricted	<u>8,764,629</u>	<u>8,385,067</u>
Total net assets	<u>\$ 8,843,808</u>	<u>8,491,708</u>

See accompanying notes to the basic financial statements.

CHINO BASIN WATERMASTER

Statement of Revenues, Expenses and Changes in Net Assets

Year ended June 30, 2005

(with comparative totals for June 30, 2004)

	Total	2004
Operating revenues:		
Administrative assessments (note 1)	\$ 4,881,245	4,736,516
Mutual agency project revenue	895,836	301,209
Replenishment water	8,097,108	4,135,998
MZ1 supplemental water assessments	1,625,000	1,585,854
Miscellaneous revenue	3,865	-
Total operating revenues	15,503,054	10,759,577
Operating expenses:		
Watermaster administration	707,233	726,638
Depreciation	27,462	28,804
Pool, advisory and Board administration	151,477	311,099
Educational	-	375
Optimum Basin Management Plan	4,144,077	3,240,788
Mutual agency project costs	57,631	81,416
Groundwater replenishment	10,125,526	984,671
MZ1 imported water	149,143	870,623
Total operating expenses	15,362,549	6,244,414
Income from operations	140,505	4,515,163
Nonoperating revenues:		
Interest income	211,595	91,863
Total nonoperating revenues	211,595	91,863
Change in net assets	352,100	4,607,026
Net assets at beginning of year	8,491,708	3,884,682
Total net assets at end of year	\$ 8,843,808	8,491,708

See accompanying notes to the basic financial statements.

CHINO BASIN WATERMASTER

Statement of Cash Flows

Year ended June 30, 2005

(with comparative totals for June 30, 2004)

	Total	2004
Cash flows from operating activities:		
Cash received from customers	\$ 4,108,125	4,603,399
Cash received from other agencies	899,702	301,209
Cash received from replenishment water	8,097,108	4,135,998
Cash received from MZ1 supplemental water assessments	1,625,000	1,585,854
Cash paid to employees for services	(884,016)	(923,670)
Cash paid to suppliers of goods and services	<u>(14,025,426)</u>	<u>(5,401,274)</u>
Net cash provided by (used for) operating activities	<u>(179,507)</u>	<u>4,301,516</u>
Cash flows from capital financing activities:		
Acquisition of capital assets	<u>-</u>	<u>(90,177)</u>
Net cash provided by (used for) capital financing activities	<u>-</u>	<u>(90,177)</u>
Cash flows from investing activities:		
Interest received	<u>211,595</u>	<u>91,863</u>
Net cash provided by (used for) investing activities	<u>211,595</u>	<u>91,863</u>
Net increase (decrease) in cash	32,088	4,303,202
Cash and investments at the beginning of year	<u>8,763,233</u>	<u>4,460,031</u>
Cash and investments at the end of year	<u>\$ 8,795,321</u>	<u>8,763,233</u>
Reconciliation of operating income to net cash used for operating activities:		
Operating income	\$ 140,505	4,515,163
Adjustment to reconcile operating income (loss) to net cash used for operating activities:		
Depreciation	27,462	28,804
(Increase) decrease in accounts receivable	(773,120)	(133,117)
(Increase) decrease in prepaid expenses	1,942	(4,173)
Increase (decrease) in account payable	377,143	(77,796)
Increase (decrease) in accrued salaries and benefits	27,655	(14,595)
Increase (decrease) in compensated absences	<u>18,906</u>	<u>(12,770)</u>
Net cash used for operating activities	<u>\$ (179,507)</u>	<u>4,301,516</u>

Noncash investing, capital and financing activities:

There were no noncash investing, capital or financing activities during the fiscal years ended June 30, 2005 and June 30, 2004.

See accompanying notes to the basic financial statements.

CHINO BASIN WATERMASTER

Notes to the Basic Financial Statements

Year Ended June 30, 2005

(1) Reporting Entity and Summary of Significant Accounting Policies

Description of Reporting Entity

The Chino Basin Watermaster (“Watermaster”) was established under a judgment entered in Superior Court of the State of California for the County of San Bernardino as a result of Case No. RCV 51010 (formerly Case No. SCV 164327) entitled “Chino Basin Municipal Water District v. City of Chino, et al.”, signed by the Honorable Judge Howard B. Wiener on January 27, 1978. The effective date of this Judgment for accounting and operations was July 1, 1977.

Pursuant to the Judgment, the Chino Basin Municipal Water District (CBMWD) five member Board of Directors was initially appointed as “Watermaster”. Their term of appointment as Watermaster was for five years, and the Court, by subsequent orders, provides for successive terms or for a successor Watermaster. Pursuant to a recommendation of the Advisory Committee, the Honorable J. Michael Gunn appointed a nine-member board as Watermaster on September 28, 2000.

Under the Judgment, three Pool committees were formed: (1) Overlying (Agricultural) Pool which includes the State of California and all producers of water for overlying uses other than industrial or commercial purposes; (2) Overlying (Non-Agricultural) Pool which represents producers of water for overlying industrial or commercial purposes; and (3) Appropriative Pool which represents cities, districts, other public or private entities and utilities. The three Pools act together to form the “Advisory Committee”.

The Watermaster provides the Chino Groundwater Basin service area with services which primarily include: accounting for water appropriations and components of acre-footage of stored water by agency, purchase of replenishment water, groundwater monitoring and implementation of special projects.

Watermaster expenditures are allocated to the pools based on the prior year’s production volume (or the same percentage used to set the annual assessments). Allocations for fiscal year 2004-05 expenses are based on the 2003-04 production volume.

	2003-04	
	<u>Acre Feet</u>	<u>%</u>
Production Volume:		
Appropriative Pool	136,795	75.291
Agricultural Pool	41,978	23.105
Non-Agricultural Pool	<u>2,915</u>	<u>1.604</u>
Total Production Volume	<u>181,688</u>	<u>100.000</u>

CHINO BASIN WATERMASTER

Notes to the Basic Financial Statements

(Continued)

(1) Reporting Entity and Summary of Significant Accounting Policies, (Continued)

The Agricultural Pool members ratified an agreement with the Appropriative Pool at their meeting of June 16, 1988, wherein the Appropriative Pool assumes Agricultural Pool administrative expenses and special project cost allocations in exchange for an accelerated transfer of unpumped agricultural water to the Appropriative Pool. In addition the Agricultural Pool transferred all pool administrative reserves at June 30, 1988 to the Appropriative Pool effective July 1, 1988.

In July of 2000, the principal parties in the Basin signed an agreement, known as the Peace Agreement, which among other things formalized the commitment of the Basin parties to implement an Optimum Basin Management Program. The Peace Agreement was signed by all of the parties, and the Court has approved the agreement and ordered the Watermaster to proceed in accordance with the terms of the agreement. The Court has approved revisions to the Chino Basin Watermaster Rules and Regulations.

Basis of Accounting

The Watermaster is accounted for as an enterprise fund (proprietary fund type). A fund is an accounting entity with a self-balancing set of accounts established to record the financial position and results of operations of a specific governmental activity. The activities of enterprise funds closely resemble those of ongoing businesses in which the purpose is to conserve and add to basic resources while meeting operating expenses from current revenues. Enterprise funds account for operations that provide services on a continuous basis and are substantially financed by revenues derived from user charges. The Watermaster utilizes the accrual basis of accounting. Revenues are recognized when earned and expenses are recognized as they are incurred.

Cash and Investments

Investments are reported in the accompanying balance sheet at fair value. Changes in fair value that occur during a fiscal year are recognized as interest income reported for that fiscal year.

Watermaster pools cash and investments of all fund balance reserves. Interest income earned by the pooled investments is allocated quarterly to the various reserves based on each reserve's average cash and investments balance.

Cash Equivalents

For the purposes of the Statements of Cash Flows, cash equivalents are defined as short-term, highly liquid investments that are both readily convertible to known amounts of cash or so near their maturity that they present insignificant risk of changes in value because of changes in interest rates, and have an original maturity date of three months or less.

CHINO BASIN WATERMASTER

Notes to the Basic Financial Statements

(Continued)

(1) Reporting Entity and Summary of Significant Accounting Policies, (Continued)

Capital Assets

Capital assets are valued at cost where historical records are available and at an estimated historical cost where no historical records exist. The Watermaster capitalizes all assets with a historical cost of at least \$5,000 and a useful life of at least three years. The cost of normal maintenance and repairs that do not add to the value of the assets or materially extend asset lives are not capitalized.

Depreciation is computed utilizing the straight-line method over the following estimated useful lives:

Computer equipment and software	5 years
Office furniture and fixtures	7 years
Leasehold improvements	10 years
Automotive equipment	7 years

Use of Estimates

The preparation of financial statements requires management to make certain estimates and assumptions that affect the reported amounts of assets and liabilities, and disclosure of contingent assets and liabilities, at the date of the financial statements, as well as the reported amounts of revenue and expenses during the reporting period. Actual results could differ from those estimates.

Appropriative Interest Revenue Allocation

On August 30, 1979, the Appropriative Pool unanimously approved assessment procedures whereby any interest earned from the Watermaster assessments paid by Appropriative Pool members would reduce the total current assessment due from those members. Fiscal year 2003-04 interest revenue was allocated to the Appropriative Pool, resulting in a reduction of the 2004-05 assessments. The amount of administrative assessment received for the year ended June 30, 2005 was \$4,881,245.

(2) Cash and Investments

Cash and investments as of June 30, 2005 are classified in the accompanying financial statements as follows:

Statement of net assets:	
Cash and investments	<u>\$ 8,795,321</u>
Total cash and investments	<u>\$ 8,795,321</u>

CHINO BASIN WATERMASTER

Notes to the Basic Financial Statements

(Continued)

(2) Cash and Investments, (Continued)

Cash and investments as of June 30, 2005 consist of the following:

Cash on hand	\$ 500
Deposits with financial institutions	522,554
Investments	<u>8,272,267</u>
Total cash and investments	<u>\$ 8,795,321</u>

Investments Authorized by the California Government Code and the Watermaster's Investment Policy

The table below identifies the investment types that are authorized for the Watermaster by the California Government Code and the Watermaster's investment policy. The table also identifies certain provisions of the California Government Code (or the Watermaster's investment policy, if more restrictive) that address interest rate risk, credit risk, and concentration of credit risk.

<u>Investment Types</u> <u>Authorized by State Law</u>	<u>Authorized</u> <u>By</u> <u>Investment Policy</u>	<u>*Maximum</u> <u>*Maximum</u> <u>Maturity</u>	<u>*Maximum</u> <u>Percentage</u> <u>Of Portfolio</u>	<u>*Maximum</u> <u>Investment</u> <u>In One Issuer</u>
Local Agency Bonds	Yes	5 years	None	None
U.S. Treasury Obligations	Yes	5 years	None	None
U.S. Agency Securities	Yes	5 years	None	None
Banker's Acceptances	Yes	180 days	40%	30%
Commercial Paper	Yes	270 days	25%	10%
Negotiable Certificates of Deposit	Yes	5 years	30%	None
Repurchase Agreements	Yes	1 year	None	None
Reverse Repurchase Agreements	Yes	92 days	20% of base value	None
Medium-Term Notes	Yes	5 years	30%	None
Mutual Funds	Yes	N/A	20%	10%
Money Market Mutual Funds	Yes	N/A	20%	10%
Mortgage Pass-Through Securities	Yes	5 years	20%	None
County Pooled Investment Funds	Yes	N/A	None	None
Local Agency Investment Fund (LAIF)	Yes	N/A	None	None
JPA Pools (other investment pools)	Yes	N/A	None	None

* Based on state law requirements or investment policy requirements, whichever is more restrictive.

CHINO BASIN WATERMASTER

Notes to the Basic Financial Statements

(Continued)

(2) Cash and Investments, (Continued)

Disclosures Relating to Interest Rate Risk

Interest rate risk is the risk that changes in market interest rates will adversely affect the fair value of an investment. Generally, the longer the maturity of an investment, the greater the sensitivity of its fair value to changes in market interest rates. One of the ways that the Watermaster manages its exposure to interest rate risk is by purchasing a combination of shorter term and longer term investments and by timing cash flows from maturities so that a portion of the portfolio is maturing or coming close to maturity evenly over time as necessary to provide the cash flow and liquidity needed for operations.

Information about the sensitivity of the fair values of the Watermaster's investments (including investments held by bond trustee) to market interest rate fluctuations is provided by the following table that shows the distribution of the Watermaster's investments by maturity:

<u>Investment Type</u>	<u>Remaining Maturity (in Months)</u>			
	<u>Total Amount</u>	<u>12 Months Or Less</u>	<u>13-24 Months</u>	<u>25-60 Months</u>
State investment pool	<u>\$8,272,267</u>	<u>8,272,267</u>	<u>-</u>	<u>-</u>
Total	<u>\$8,272,267</u>	<u>8,272,267</u>	<u>-</u>	<u>-</u>

Disclosures Relating to Credit Risk

Generally, credit risk is the risk that an issuer of an investment will not fulfill its obligation to the holder of the investment. This is measured by the assignment of a rating by a nationally recognized statistical rating organization. Presented below is the minimum rating required by (where applicable) the California Government Code, the Watermaster's investment policy, or debt agreements, and the actual rating as of year end for each investment type.

<u>Investment Type</u>	<u>Total Amount</u>	<u>Minimum Legal Rating</u>	<u>Rating as of Year End</u>		
			<u>AAA</u>	<u>Aa</u>	<u>Not Rated</u>
State investment pool	<u>\$8,272,267</u>	<u>N/A</u>	<u>-</u>	<u>-</u>	<u>8,272,267</u>

Total	<u>\$8,272,267</u>	<u>N/A</u>	<u>-</u>	<u>-</u>	<u>8,272,267</u>
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CHINO BASIN WATERMASTER

Notes to the Basic Financial Statements

(Continued)

(2) Cash and Investments, (Continued)

Custodial Credit Risk

Custodial credit risk for *deposits* is the risk that, in the event of the failure of a depository financial institution, a government will not be able to recover its deposits or will not be able to recover collateral securities that are in the possession of an outside party. The custodial credit risk for *investments* is the risk that, in the event of the failure of the counterparty (e.g., broker-dealer) to a transaction, a government will not be able to recover the value of its investment or collateral securities that are in the possession of another party. The California Government Code and the Watermaster's investment policy do not contain legal or policy requirements that would limit the exposure to custodial credit risk for deposits or investments, other than the following provision for deposits: The California Government Code requires that a financial institution secure deposits made by governmental units by pledging securities in an undivided collateral pool held by a depository regulated under state law (unless so waived by the governmental unit). The market value of the pledged securities in the collateral pool must equal at least 110% of the total amount deposited by the public agencies. California law also allows financial institutions to secure Watermaster deposits by pledging first trust deed mortgage notes having a value of 150% of the secured public deposits.

Investment in State Investment Pool

The Watermaster is a voluntary participant in the Local Agency Investment Fund (LAIF) that is regulated by the California Government Code under the oversight of the Treasurer of the State of California. The fair value of the Watermaster's investment in this pool is reported in the accompanying financial statements at amounts based upon the Watermaster's pro-rata share of the fair value provided by LAIF for the entire LAIF portfolio (in relation to the amortized cost of that portfolio). The balance available for withdrawal is based on the accounting records maintained by LAIF, which are recorded on an amortized cost basis.

CHINO BASIN WATERMASTER

Notes to the Basic Financial Statements

(Continued)

(3) Capital Assets

Capital asset activity for the year ended June 30, 2005 is as follows:

	<u>Balances at</u> <u>June 30, 2004</u>	<u>Additions</u>	<u>Deletions</u>	<u>Balances at</u> <u>June 30, 2005</u>
Computer equipment and software	\$49,768	-	-	49,768
Office furniture and fixtures	36,371	-	-	36,371
Leasehold improvements	23,443	-	-	23,443
Automotive equipment	<u>79,173</u>	<u>-</u>	<u>(23,299)</u>	<u>55,874</u>
Total costs of depreciable assets	<u>188,755</u>	<u>-</u>	<u>(23,299)</u>	<u>165,456</u>
Less accumulated depreciation:				
Computer equipment and software	(26,418)	(9,954)	-	(36,372)
Office furniture and fixtures	(6,237)	(5,196)	-	(11,433)
Leasehold improvements	(2,344)	(2,344)	-	(4,688)
Automotive equipment	<u>(47,115)</u>	<u>(9,968)</u>	<u>23,299</u>	<u>(33,784)</u>
Total accumulated depreciation	<u>(82,114)</u>	<u>(27,462)</u>	<u>23,299</u>	<u>(86,277)</u>
Net capital assets	<u>\$106,641</u>	<u>(27,462)</u>	<u>-</u>	<u>79,179</u>

(4) Compensated Absences

Permanent Watermaster employees earn from 10 to 20 vacation days a year, depending upon their length of employment and 12 sick days a year. Employees may carry vacation days forward up to the equivalent number of days earned in the immediately preceding twenty-four (24) month period. There is no maximum accumulation of sick leave; and upon retirement or resignation at age 55 or greater, employees with continuous employment for a minimum of twenty (20) years are compensated for all accumulated sick leave at 50% of their rate of pay at termination. Other employees are paid based upon length of employment and age at time of retirement or resignation. The amount of compensated absences outstanding as of June 30, 2005 was \$65,597.

CHINO BASIN WATERMASTER

Notes to the Basic Financial Statements

(Continued)

(5) Deferred Compensation Plan

The Watermaster has established deferred compensation plans for all employees of Watermaster in accordance with Internal Revenue Code Section 457, whereby employees authorize the Watermaster to defer a portion of their salary to be deposited in individual investment accounts. Participation in the plans is voluntary and may be revoked at any time upon advance written notice. Generally, the amount of compensation subject to deferral until retirement, disability, or other termination by a participant may not exceed the lesser of \$12,000 or 33.33% of includible compensation, or 25% of gross compensation. Amounts withheld by Watermaster under this plan are deposited regularly with California Public Employees' Retirement System. The Watermaster makes no contribution under the plan. As of June 30, 2005, the deferred compensation plan assets were held in trust accounts for the sole benefit of the employees and their beneficiaries, and accordingly have been excluded from Watermaster's reported assets.

(6) Operating Lease

The Watermaster entered into a new lease for rent of office space on September 1, 2003, expiring August 30, 2013. The amount paid under this lease was \$60,455 for the year ended June 30, 2005. The future minimum lease payments for this lease are as follows:

<u>Year Ending June 30:</u>	<u>Amount</u>
2006	\$ 58,800
2007	58,800
2008	58,800
2009	58,800
2010	58,800
2011	58,800
2012	58,800
2013	<u>58,800</u>
Total	<u>\$470,400</u>

CHINO BASIN WATERMASTER

Notes to the Basic Financial Statements

(Continued)

(7) Defined Benefit Pension Plan (PERS)

The Chino Basin Watermaster contributes to the California Public Employees Retirement System (PERS), an agent multiple-employer public employee defined benefit pension plan. PERS provides retirement, disability benefits, and death benefits to plan members and beneficiaries. PERS acts as a common investment and administrative agent for participating public entities within the State of California. Copies of PERS' annual financial report may be obtained from its executive office at 400 "P" Street, Sacramento, California 95814.

Participants are required to contribute 7% of their annual covered salary. The Watermaster makes the contribution required by the employees on their behalf and for their account. The Watermaster is required to contribute at an actuarially determined rate. The current rate is 11.146% of annual covered payroll. The contribution requirements of plan members and the Watermaster are established and may be amended by PERS.

Under GASB 27, an employer reports an annual pension cost (APC) equal to the annual required contribution (ARC) plus an adjustment for the cumulative difference between the APC and the employer's actual plan contributions for the year. The cumulative difference is called the net pension obligation (NPO). The ARC for the period July 1, 2004 to June 30, 2005 has been determined by an actuarial valuation of the plan as of June 30, 2002. The contribution rate indicated for the period is 14.262% of payroll for the Retirement Program. In order to calculate the dollar value of the ARC for inclusion in financial statements prepared as of June 30, 2005, this contribution rate would be multiplied by the payroll of covered employees that was actually paid during the period July 1, 2004 to June 30, 2005.

A summary of principle assumptions and methods used to determine the ARC is shown below.

Valuation Date	June 30, 2002
Actuarial Cost Method	Entry Age Actuarial Cost Method
Amortization Method	Level Percent of Payroll
Average Remaining Period	9 Years as of the Valuation Date
Asset Valuation Method	3 Year Smoothed Market
Actuarial Assumptions	
Investment Rate of Return	8.25% (net of administrative expenses)
Projected Salary Increases	3.75% to 14.20% depending on Age, Service, and type of employment
Inflation	3.50%
Payroll Growth	3.75%
Individual Salary Growth	A merit scale varying by duration of employment coupled with an assumed annual inflation component of 3.5% and an annual production growth of 0.25%.

CHINO BASIN WATERMASTER

Notes to the Basic Financial Statements

(Continued)

(7) Defined Benefit Pension Plan (PERS), (Continued)

Initial unfunded liabilities are amortized over a closed period that depends on the plan's date of entry into CalPERS. Subsequent plan amendments are amortized as a level percent of pay over a closed 20-year period. Gains and losses that occur in the operation of the plan are amortized over a rolling period, which results in an amortization of 10% of unamortized gains and losses each year. If the plan's accrued liability exceeds the actuarial value of plan assets, then the amortization period may not be lower than the payment calculated over a 30 year amortization period.

The Schedule of Funding Progress below shows the recent history of the actuarial value of assets, actuarial accrued liability, their relationship, and the relationship of the unfunded accrued liability to payroll.

Required Supplementary Information

Retirement Program

<u>Valuation Date</u>	<u>Entry Age Normal Accrued Liability</u>	<u>Actuarial Value of Assets</u>	<u>Unfunded Liability/ (Excess Assets)</u>	<u>Funded Status</u>	<u>Annual Covered Payroll</u>	<u>*UAAL As a % of Payroll</u>
6/30/01	\$192,890	178,838	14,052	92.7%	291,502	4.8%
6/30/02	294,441	262,540	31,901	89.2%	517,200	6.2%
6/30/03	419,723	391,922	27,801	93.4%	476,486	5.8%

* UAAL refers to unfunded actuarial accrued liability.

Information for the June 30, 2004 valuation date was not available for inclusion in the financial statements.

(8) Project Commitments

Under a financing agreement developed pursuant to the OBMP Recharge Master Plan, the Watermaster is obligated to pay for one-half of the fixed project costs for certain recharge facilities in the Chino Basin area that are being constructed to increase the recharge of imported water, storm water, and recycled water to the Chino Groundwater Basin. The recharge facilities being constructed will be owned by the Inland Empire Utilities Agency pursuant to a Recharge Operations Agreement. When complete, the recharge project will enable the Watermaster to increase annual recharge supplemental water to the Chino Groundwater Basin. In addition, stormwater and recycled water recharge would be increased. Fixed project costs include construction costs, debt service on the related bond financing and reserves for repair, replacement, improvement and debt service.

SUPPLEMENTARY INFORMATION

CHINO BASIN WATERMASTER

Combining Schedule of Revenues, Expenses and Changes in Working Capital (by subfund)

For the Period July 1, 2004 through June 30, 2005

	WATERMASTER ADMINISTRATION	OPTIMUM BASIN MANAGEMENT	POOL ADMINISTRATION AND SPECIAL PROJECTS			GROUNDWATER OPERATIONS			GRAND TOTALS	BUDGET 2004-05
			APPROPRIATIVE POOL	AGRICULTURAL POOL	NON-AGRIC. POOL	GROUNDWATER REPLENISHMENT	SB222 FUNDS	EDUCATION FUNDS		
Administrative Revenues										
Administrative Assessments			4,807,004		74,241			4,881,245	\$3,984,888	
Interest Revenue			193,951	11,148	6,453		43	211,595	78,330	
Mutual Agency Project Revenue		895,836						895,836	-	
Miscellaneous Income	3,865							3,865	-	
Total Revenues	3,865	895,836	5,000,955	11,148	80,694	-	-	5,992,541	4,063,218	
Administrative & Project Expenditures										
Watermaster Administration	734,695							734,695	621,784	
Watermaster Board-Advisory Committee	47,159							47,159	37,018	
Pool Administration			13,459	87,794	3,065			104,318	91,153	
Optimum Basin Mgmt Administration		1,265,673						1,265,673	1,019,183	
OBMP Project Costs		2,878,404						2,878,404	3,733,694	
Education Funds Use							-	-	375	
Mutual Agency Project Costs	57,631							57,631	80,004	
Total Administrative/OBMP Expenses	839,485	4,144,077	13,459	87,794	3,065		-	5,087,880	5,583,211	
Net Administrative/OBMP Income	(835,620)	(3,248,241)								
Allocate Net Admin Income To Pools	835,620		629,148	193,066	13,406			-	-	
Allocate Net OBMP Income To Pools		3,248,241	2,445,639	750,491	52,111			-	-	
Agricultural Expense Transfer			1,020,199	(1,020,199)				-	-	
Total Expenses			4,108,446	11,152	68,581	-	-	5,087,880	5,583,211	
Net Administrative Income			892,509	(4)	12,113		43	904,661	(1,519,993)	
Other Income/(Expense)										
Replenishment Water Purchases						8,097,108		8,097,108	-	
MZ1 Supplemental Water Assessments						1,625,000		1,625,000	2,179,500	
Water Purchases								-	-	
MZ1 Imported Water Purchase								-	(2,278,500)	
Groundwater Replenishment						(10,274,669)		(10,274,669)	-	
Net Other Income			-	-	-	(552,561)	-	(552,561)	(99,000)	
Net Transfers To/(From) Reserves			892,509	(4)	12,113	(552,561)	-	352,100	(1,618,993)	
Working Capital, July 1, 2004			3,560,227	463,055	174,920	4,133,060	158,251	2,195	8,491,708	
Working Capital, End Of Period			4,452,736	463,051	187,033	3,580,499	158,251	2,238	8,843,808	
03/04 Production			136,795.139	41,978.182	2,914.774			181,688.095		
03/04 Production Percentages			75.291%	23.105%	1.604%			100.000%		

CHINO BASIN WATERMASTER

Combining Schedule of Revenues, Expenses and Changes in Working Capital (by subfund)

For the Period July 1, 2003 through June 30, 2004

	WATERMASTER ADMINISTRATION	OPTIMUM BASIN MANAGEMENT	POOL ADMINISTRATION AND SPECIAL PROJECTS			GROUNDWATER OPERATIONS			GRAND TOTALS	BUDGET 2003-04
			APPROPRIATIVE POOL	AGRICULTURAL POOL	NON-AGRIC. POOL	GROUNDWATER REPLENISHMENT	SB222 FUNDS	EDUCATION FUNDS		
Administrative Revenues										
Administrative Assessments			4,614,056		122,460			4,736,516	\$3,940,516	
Interest Revenue			81,090	7,111	3,624			91,863	112,025	
Mutual Agency Project Revenue		301,209						301,209	-	
Total Revenues	-	301,209	4,695,146	7,111	126,084	-	-	5,129,588	4,052,541	
Administrative & Project Expenditures										
Watermaster Administration	755,442							755,442	617,732	
Watermaster Board-Advisory Committee	47,569							47,569	43,442	
Pool Administration			13,796	246,513	3,221			263,530	255,148	
Optimum Basin Mgmt Administration		932,272						932,272	1,034,064	
OBMP Project Costs		2,308,516						2,308,516	3,365,079	
Education Funds Use							375	375	375	
Mutual Agency Project Costs	81,416							81,416	85,004	
Total Administrative/OBMP Expenses	884,427	3,240,788	13,796	246,513	3,221		375	4,389,120	5,400,844	
Net Administrative/OBMP Income	(884,427)	(2,939,579)								
Allocate Net Admin Income To Pools	884,427		656,109	202,129	26,189			-	-	
Allocate Net OBMP Income To Pools		2,939,579	2,180,717	671,817	87,046			-	-	
Agricultural Expense Transfer			1,110,333	(1,110,333)				-	-	
Total Expenses			3,960,955	10,125	116,456	-	-	4,389,120	5,400,844	
Net Administrative Income			734,191	(3,014)	9,628			(337)	(1,348,303)	
Other Income/(Expense)										
Replenishment Water Purchases						4,135,998		4,135,998	-	
MZ1 Supplemental Water Assessments						1,585,854		1,585,854	2,189,500	
Water Purchases								-	-	
MZ1 Imported Water Purchase								-	(2,273,500)	
Groundwater Replenishment						(1,855,294)		(1,855,294)	-	
Net Other Income			-	-	-	3,866,558	-	3,866,558	(84,000)	
Net Transfers To/(From) Reserves			734,191	(3,014)	9,628	3,866,558	-	4,607,026	(1,432,303)	
Working Capital, July 1, 2003, As Restated			2,826,036	466,069	165,292	266,502	158,251	3,884,682		
Working Capital, End Of Period			3,560,227	463,055	174,920	4,133,060	158,251	8,491,708		
02/03 Production			121,586,420	37,457,315	4,853,247			163,896,982		
02/03 Production Percentages			74.185%	22.854%	2.961%			100.000%		



Chino Basin Watermaster
Twenty-Eighth
Annual Report
Fiscal Year 2004-05



Appendix C3
Relocation of West Well

Relocation of West Well, Etiwanda Generating Station, August 13, 2006

Relocation of West Water Well, Rancho Vista Substation Site, Etiwanda,
California, July 13, 2006

Relocation of West Well Etiwanda Generating Station

August 13,2006

Southern California Edison Company (Edison) will be constructing a new electrical substation on property adjacent to the southern margin of the Etiwanda Generating Station. One of the three production groundwater wells, used for station cooling water, is located within the footprint of the new substation. Edison is proposing the relocation of this well, designated "West Well", to a position within the station property. I have been requested to provide an assessment of the proposed relocation of the West Well.

Over the past several years, I have been investigating the groundwater beneath the Etiwanda Generating Station for Edison. The investigation is designed to determine if any groundwater deterioration has occurred from the operation of the wastewater retention basins located in the southeast corner of the site. Figure 1 shows the position of the basins and the six, 440 feet deep monitoring wells installed for the investigation (designated EW-1 through EW-6). The figure also shows the location of the Central and East wells which are about 850 feet deep.

The drill cutting logs and geophysical surveys for the six monitoring wells showed the lithology beneath the area to be layered sand and clay varying in density. Only a few gravel and cobble zones were encountered. The groundwater level was determined to be from 400 to 415 feet below the ground surface depending on the elevation of the wellhead. Development of these wells indicated a high capacity aquifer. No drawdown could be measured during the development process with a pump discharge of 250 gallons per minute.

The three production wells (West, Central, and East) were recently refurbished by Reliant Energy. The well casings were cleaned with new submersible pumps installed. When the wells were placed back in service, the drawdown was measured. Less than two feet of drawdown occurred within the well's casing while the discharge meter indicated a flow of 1350 gallons per minute. The effect of pumping the East Well was not detected in a water level recorder located in well EW-3 (Figure 1).

The data indicates that the aquifer beneath the station has a high permeability which will yield high capacity wells. The position of a new well could be virtually anywhere on the station. Edison has proposed a site for the new

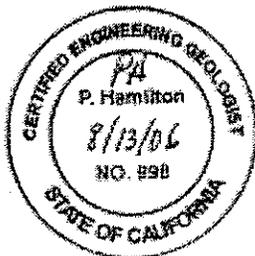
well near the Chadwick Channel. It is my understanding that Reliant Energy has two concerns with this location: 1) the proximity to the channel, and 2) the potential of affecting the production of the Central Well.

The position, as initially chosen by Edison, was immediately adjacent to the channel. It has been reported that the channel will crest over the bank during runoff caused by heavy rainfall. For wellhead protection, it is recommended that the well be positioned about fifty feet east of the channel as shown in red on Figure 1. It is also recommended that the well be placed on a one-foot high pad to elevate the wellhead above the potential sheet flow from the flooding channel. This would allow the flood water to pass by the wellhead and flow to a low area east of the well.

A production well at the new location of the West Well will have no effect on the yield from the Central Well. Figure 2 is a plot of the groundwater gradient beneath the station in April 2002. In the early stage of the groundwater investigation, the water levels at the production wells were used for the gradient plots. The plot shows a southwest flow direction with a slope of 0.005 foot per foot. The groundwater elevations have changed over the years, because of recharge conditions, but the gradient direction has remained constant. This is illustrated in Figure 3 which is a plot of the gradient in March 2006. The Central Well is not downgradient of the proposed location of the new West Well.

It is concluded that the proposed location of the new West Well is good with the engineering modifications for wellhead protection described above. It is highly recommended that Edison include in the well specification performing a geophysical survey of the bore-hole with a micro-guard tool. This tool allows for the logging of thin bedding within the bore-hole which is critical to production and may be missed in the visual logging. The record from the new bore-hole can be correlated with the records developed in the six monitoring well. It is also highly recommended that Welenco Borehole Geophysical Services perform the survey. Each tool is slightly different. Since the Welenco tool produced the six records for the monitoring wells, their tool would be most appropriate since we will be comparing the records.

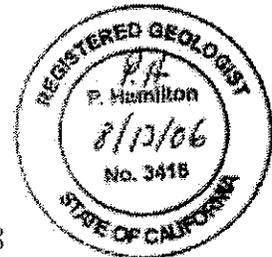
If you have any questions, please contact me.

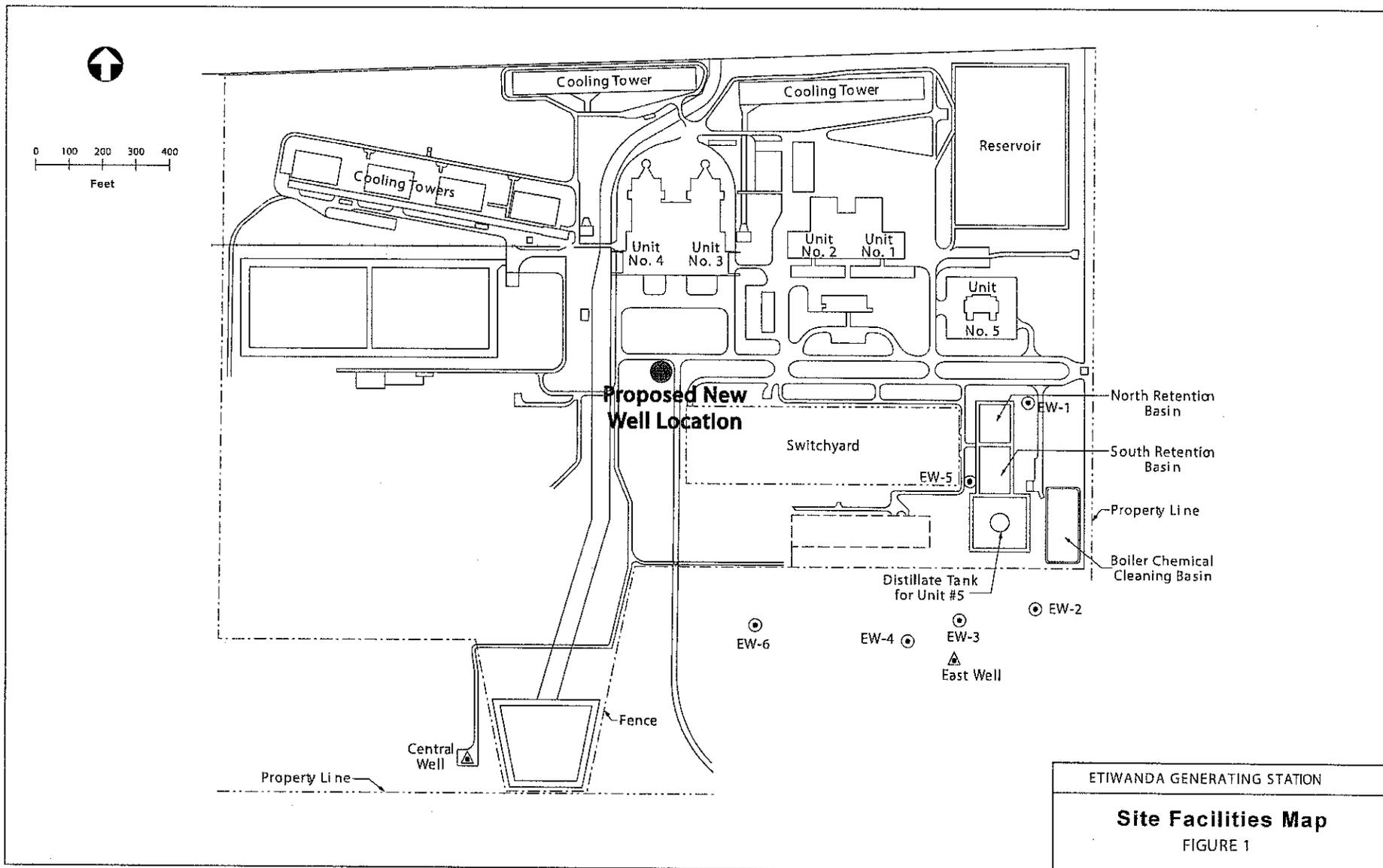


Sincerely,

A handwritten signature in black ink that reads "P. Hamilton".

P. Hamilton, CEG # 998



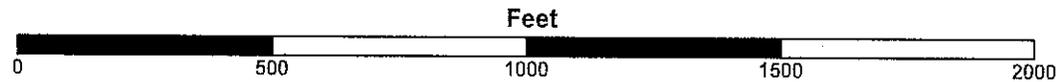
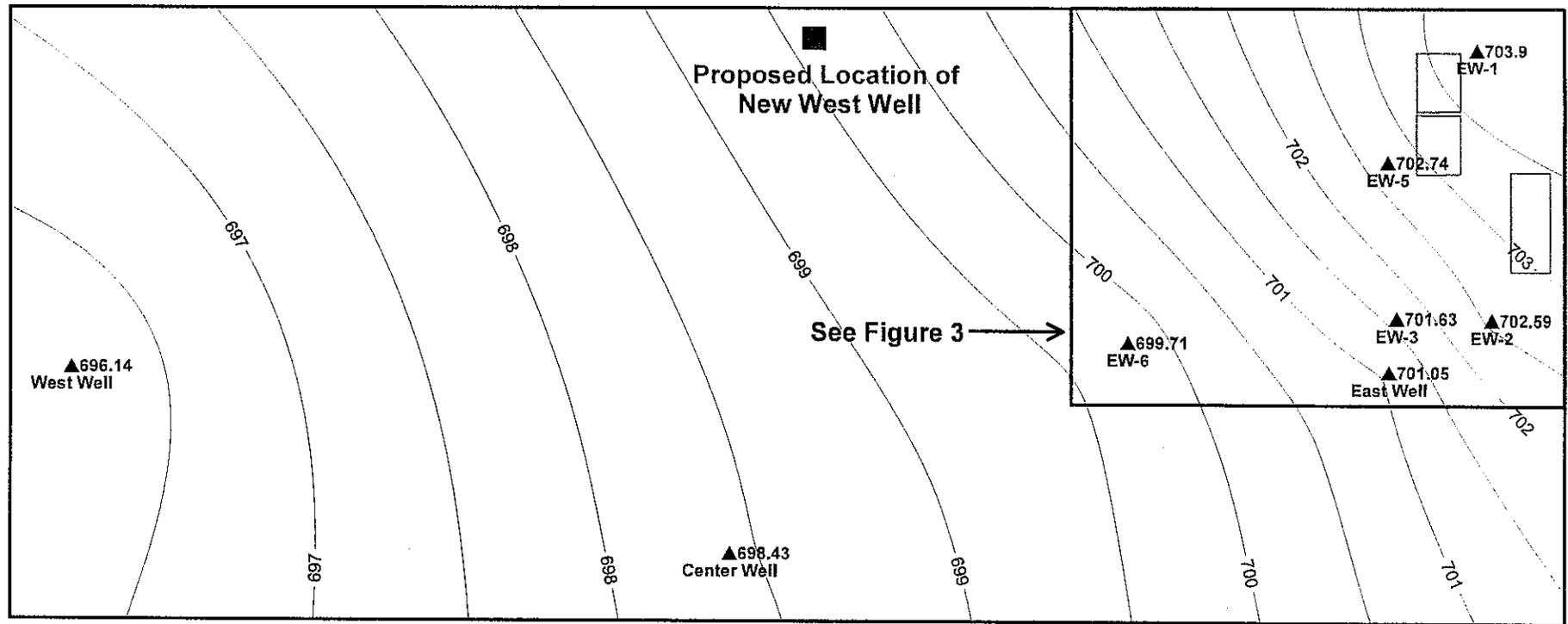


ETIWANDA GENERATING STATION

Site Facilities Map

FIGURE 1

Groundwater Gradient -- 4/8/02 Etiwanda Generating Station

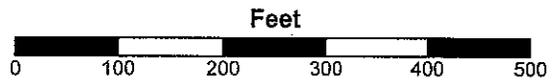
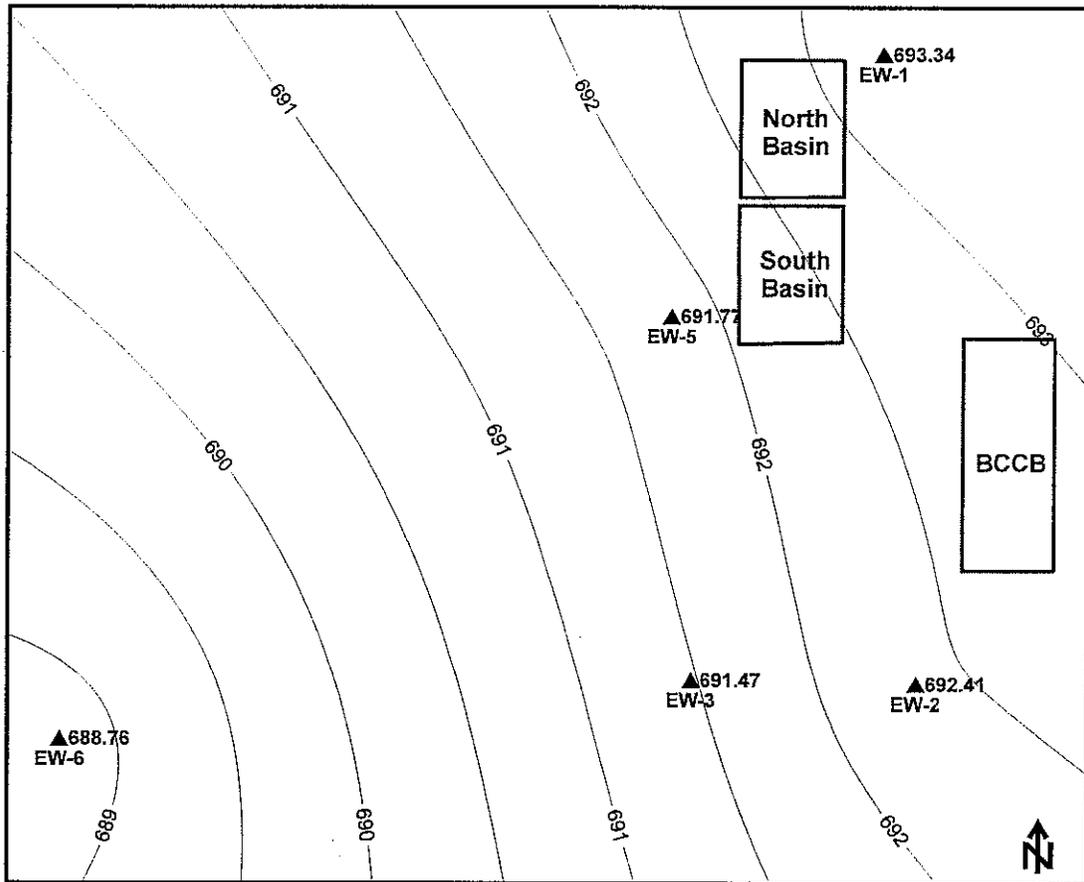


Contour Interval = 0.5 feet

- ▲ Location of Groundwater Monitoring and Pumping Wells
Groundwater Elevation Posted on the Right

Figure 2

Groundwater Gradient -- 3/14/06 Etiwanda Generating Station



Contour Interval = 0.5 foot

Figure 3

▲ Location of Groundwater Monitoring Well
Groundwater Elevation Posted on the Right

July 13, 2006

**SUBJECT: RELOCATION OF WEST WATER WELL
RANCHO VISTA SUBSTATION SITE
ETIWANDA, CALIFORNIA**

The intent of the project is to relocate an existing water well currently owned by Reliant Energy (the "West Well") from the area of the proposed Rancho Vista Substation to an area operated by Reliant Energy. The proposed new well will be constructed in such a manner to provide a new well of essentially equivalent production capacity as is currently produced by the West Well.

EXISTING CONDITIONS

The West Well is currently located within an area designated as the future Rancho Vista Substation. The well itself is approximately 850 feet deep with a casing diameter of about 14 inches. The nominal production of the well is about 1500 gpm. The motor/pump assembly is a submersible unit set at about 600 feet below the ground surface. The surface area of the well site is about 28' by 28'. This area encloses the well head, switch, and transformer. The well head itself is a concrete pad about 6 feet square and a concrete pedestal. A series of flanges, steel plates/rings, piping, electrical connectors and water conditioning equipment make up most of the equipment located within the well site.

Piping to the West Well is standard 14 inch diameter steel pipe buried for most of its length. An exposed section of piping is immediately adjacent to the well head. The buried pipe extends from the West Well toward the Center Well where the piping is joined together and continues on to the East Well. There is apparently only one pipeline connecting all three wells.

The electrical supply to the well is assumed to be approximately 4kV with a transformer/switch assembly adjacent to the well. The electrical service is buried from the control room area to the well site. The electrical panel for the well controls is believed to be at the station control room. This will be verified prior to relocation of the well.

PROPOSED RELOCATION

SCE intends to relocate the well to a location immediately north and west of the new SCE switchyard and on Reliant Energy property. At this location, there are no above ground obstructions and no apparent below ground obstructions. The pipe run to this location from the existing piping is approximately 1000 feet. As well, there should be a very short distance (less than 200 feet) required for the underground electrical. Access for construction of the well is excellent as is the available area for laydown around the proposed well site. Reliant Energy

would have to verify that they have no future development plans for this area.

WELL PRODUCTION

Several discussions have been held with Mr. Pat Hamilton, consulting geologist, regarding the likely production potential for the three proposed areas at the Etiwanda site. He has been responsible for evaluating the environmental conditions of the ground water at the station area for over the past 10 years. In addition, he has constructed a number of deep monitoring wells as well as having been involved in the rehabilitation of the East, Center, and West wells within the past 10 years. It is his opinion, as well as the opinion of the SCE Geotechnical staff, that the proposed location would produce essentially the same volume of water currently produced from the existing well. In addition, the drawdown within the well should not vary significantly from that associated with the existing wells.

It should be noted, however, that when developing any well, there is always the possibility that geological conditions may not be the same at all locations. For this reason, there is always a small chance that once drilled, the well would be unable to produce an adequate volume for replacement of the existing well. In this case, the options would include: moving the well to a new location, deepening the well, or constructing an additional well nearby. This would significantly increase the costs to the project.

At this time, we have no reason to believe that the geological conditions will be significantly different from the conditions at the existing three well sites.

NEW WELL CONSTRUCTION

The new well construction will replace the existing West Well "in-kind". As much of the existing equipment and materials will be used as possible. This will include, but not be limited to: the well motor and pump, the well head assembly, the transformer and switch and any existing piping shown to be salvageable for reuse.

The existing steel pipeline and associated electrical conduits in the area of the proposed Rancho Vista Substation will be removed and the resulting trench backfilled. Recompaction of the trench backfill will occur during grading of the Rancho Vista Substation project. The pipeline will be capped west of its connection with the pipeline from the central well.

ABANDONMENT OF THE WEST WELL

Once the new well has been brought on-line, the West Well will be abandoned/destroyed per the San Bernardino County environment/well abandonment procedures. The abandoned well casing may be used in the future for the installation of the grounding equipment for the proposed Rancho Vista Substation.

SCHEDULE

Based on our discussions with the drilling contractor, he will require up to three weeks prior notice before mobilizing to the selected well site. The contractor will be responsible for securing all drilling and discharge permits.

Once drilling has begun, the drilling contractor will require about three weeks to complete construction of the well including construction of the concrete well pad. In addition, he will require up to two weeks for well development. With this, the first phase of the drilling contractor's work is complete.

Once the new piping/electrical runs are complete, the drilling contractor will pull the existing pump/motor at the West Well, take them to his shop and inspect/rebuild as necessary. This will take at least 1-2 weeks. During this time, the electrical equipment tested and moved from the west well site to the new well site. When the pump is ready, the driller will then install it the new well.

Once the motor/pump are installed in the well, it will be the responsibility of the piping/electrical contractors to hook-up the well in consultation with the drilling contractor.

Removal of the pipeline to the west well can begin as soon as the old well is taken off line. The preliminary project schedule is shown on the attached chart.

OUTAGE

We estimate that the west well will be off-line for a total of between 2 and 4 weeks. This is the time required to move the well pump and associated plumbing and the electrical equipment to the new location. Both the west and center well will be off-line simultaneously for a period of approximately 1 week in order to cap the line going to the old well, and to tie the new pipeline into the old pipeline. These two wells can be isolated from the rest of the system using the new valve installed during the recent pipeline relocation for the Etiwanda Jr. Substation. We do not anticipate a need for the entire system to be offline at any time.

ELECTRICAL SCOPE OF WORK

1.0 Existing Well Pump Motor, Transformer and Oil Switch

- 1.1 The existing well pump motor, transformer and oil switch will be relocated to an area approximately 300 feet north-east of the existing Cutter Stock Tank E.
- 1.2 The existing well pump motor, transformer and oil switch, as indicated on drawing 538989, was installed in 1954, which indicate that the equipment are 50 years old. Removing the electrical equipment and installing at another location would require

verification of the performance of the equipment for safe operation when re-installed since the equipment may have reached their end of life.

- 1.3 The existing oil switch is a load break switch and shall be proof-tested to determine that the equipment is in order, operational and free of current leakage.
- 1.4 As a minimum, the existing transformer shall be verified by taking oil sample from the transformer and performing oil tests. Cleaning and reconditioning shall be performed on the transformer.
- 1.5 The submersible pump motor, when relocated, shall be tested prior to electrical connection and operation. The following tests shall be performed prior to switching to electrical power source: insulation, inductance/resistance imbalance, rotor influence and alignment. Prior to electrical connection, and as a minimum, the power circuit from the 4160V switchgear to the motor shall be tested and verified to be free of current leakage between phases and to ground. The 4160V circuit breaker and controls shall be assumed, with the concurrence of the Etiwanda Station Management, to be in order and in operational condition. Verify pump and motor vibration during startup and shall be in accordance with ANSI AR100 and NEMA MG 1-7.
- 1.6 The existing feeder is a 5kV, 3/C #2, cable. The existing cable was partially replaced in 2000 during the demolition of the fuel oil tanks. The cable was spliced at a Hand-Hole (HH 3-7A, see drawing 5272696-1) with new cable from HH 3-7A to the Well Pump "W" oil switch (see drawing 5272701-1, Section "A-A"). When the well pump is relocated, the portion of the cable that was new and spliced to the old cable and rerouted should be that portion to be re-routed again through an existing Hand-Hole (HH 3-7) to the new pump location. Caution and care shall be exercised when performing cable testing to determine current leakage between phases and to ground. **Proof-testing may damage the cable, especially the old portion of the cable.** There is a possibility that the old cable may fail and may require replacement.
- 1.7 Ground grid and equipment ground shall be installed for the new well pump location and the ground grid shall be tied to the plant's ground grid.
- 1.8 We suggest that a lighting pole and flood light fixture be installed and powered from the plant's outdoor lighting system. At this time, this work is not included in our scope of work because such lighting does not currently exist at the West Well.

MECHANICAL SCOPE OF WORK

This scope of work includes providing engineered construction design drawings to connect the new well to the existing water supply system. This new pipeline will be approximately 1000 feet long, and will extend due south from the new well location to the existing pipeline between the center well and the Etiwanda Jr. Substation.

The well water system has the capability to provide potable water to the station. Therefore, any internal lining of relocated piping system must be compliant with standard for potable water compatibility (NSF 61).

Due to anticipated availability problems in obtaining welded carbon steel pipe, Edison's E&TS PPD dept. recommends use of Ductile Iron Pipe (DIP) for relocation of this underground well water pipeline which is not cathodically protected. DIP will be restrained joints (bell & spigot plain end) in accord with the following description :

Proposed Size	=	15.3 in. OD (bell size)
Prop. Type	=	Ductile Iron Pipe (DIP), 0.28 in. wall thk., SMLS, per AWWA C 110/ A21.1, and C153 / 21.53
Prop. Exterior coating	=	1 mil DFT asphaltic, layer, factory applied
Interior coating	=	cement mortar lining, factory applied
Rating	=	250 psig pressure class, 350 Psig surge pressure, 150 F

Connection of the new pipeline to the existing system will be performed by isolating the west and center wells from the remainder of the well water system using the isolation valve recently installed in the vicinity of the Etiwanda Jr. Substation. As a result, the water supply system can remain on-line throughout the construction and relocation, as described previously.

Welded Carbon Steel tie-in points with mechanical flanged fittings will be installed to transition the pipe material from steel to DIP. Thrust blocks will be installed to restrain the pipeline in position during normal operating pressure, as well as surge conditions. A cementitious sand/slurry mixture will also retain the pipeline in place.

CLOSURE

If you have any questions or additional requirements, please do not hesitate to contact David Goodrich at PAX 47972, or Zaid Ahmad at PAX 47795.



DAVID GOODRICH, CEG
Consulting Engineering Geologist

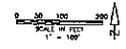


ZAID AHMAD, P.E.
Lead Geotechnical Engineer
E&TS, Civil/Geotechnical Group
Southern California Edison Company

Attachments:
Preliminary Project Schedule

cc: Geotech file

EXISTING RELIANT ENERGY POWER GENERATION



SOUTHERN CALIFORNIA EDISON
RANCHO VISTA 500-KV SUBSTATION
PRELIMINARY ENGINEERING SITE PLAN
JUNE 13, 2006
PRELIMINARY

PROPOSED SCE
RANCHO VISTA
TRAINING FACILITY

EXISTING EHWANDA SUBSTATION

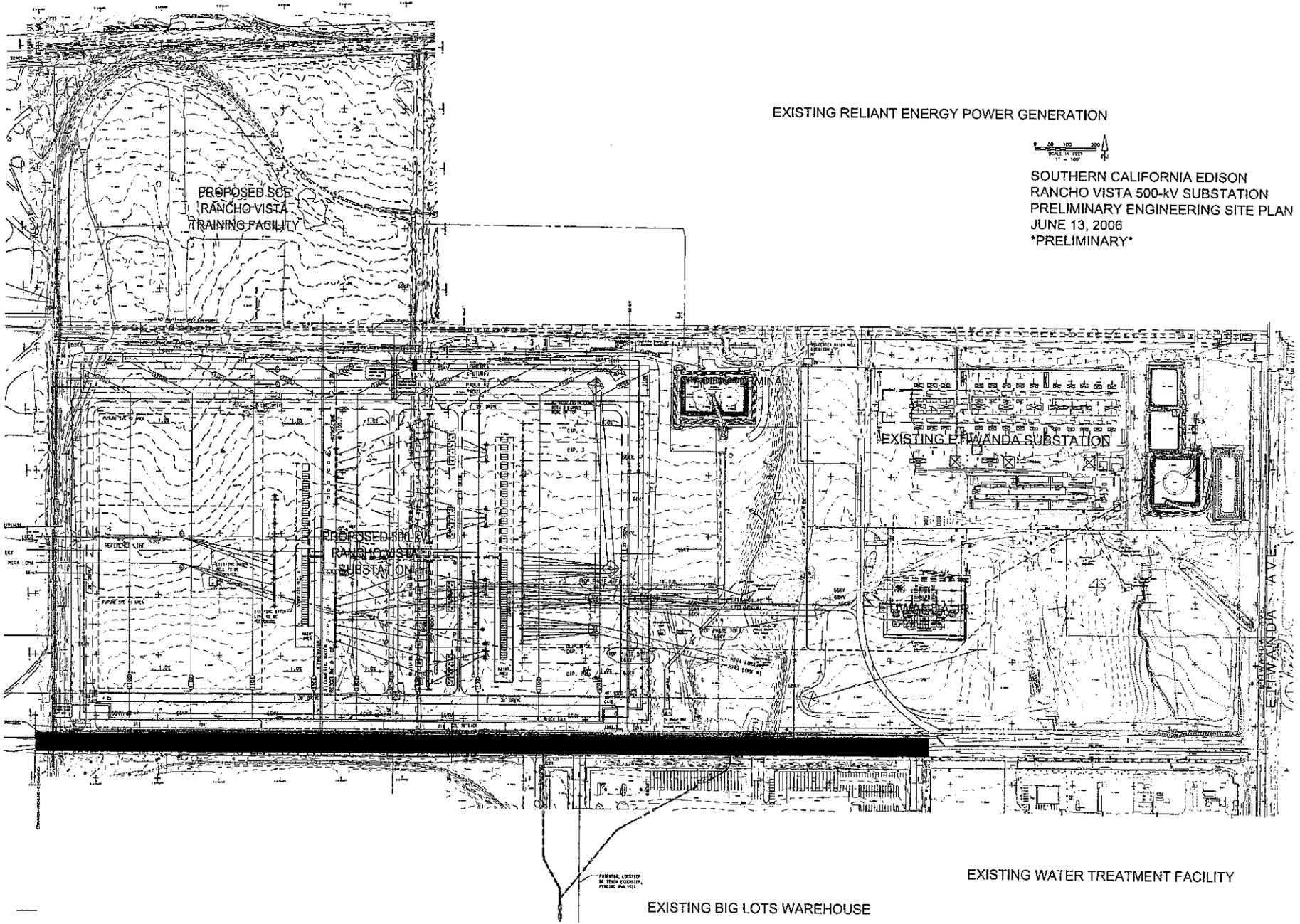
PROPOSED 500-KV
RANCHO VISTA
SUBSTATION

EHWANDA AVE

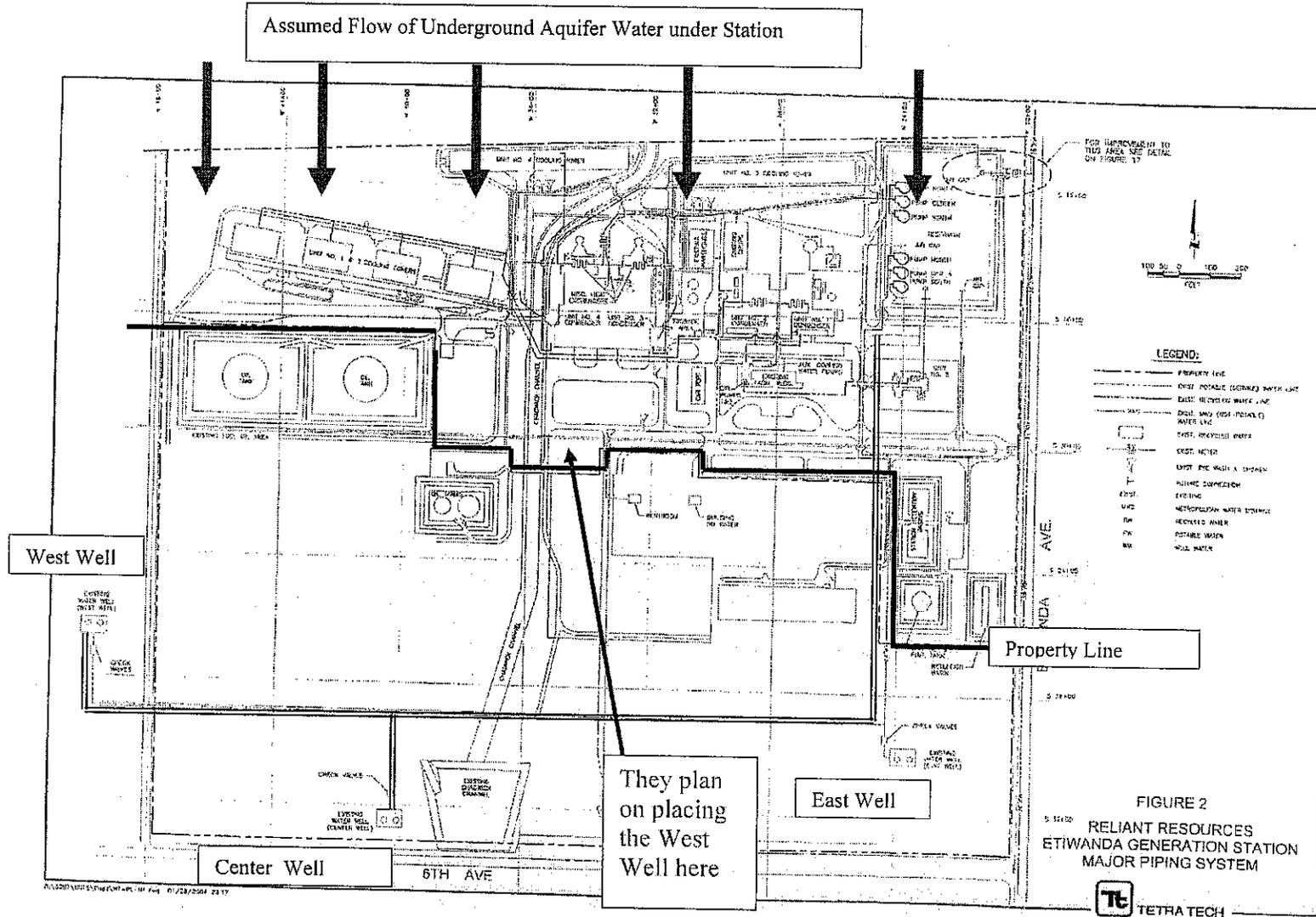
EXISTING LOTION
OF BROWN HOUSE,
PUBLIC ARCHAEO

EXISTING BIG LOTS WAREHOUSE

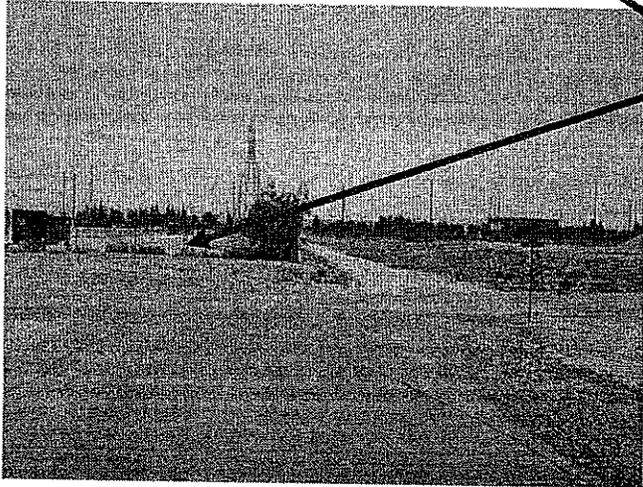
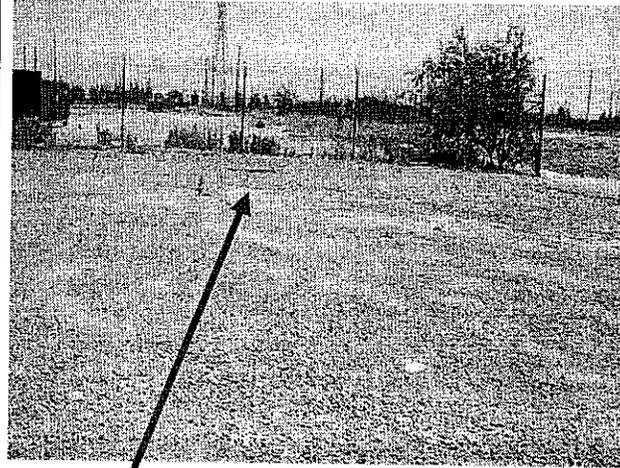
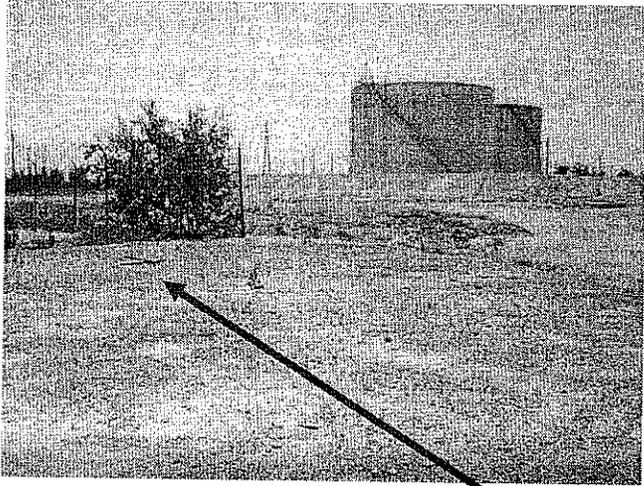
EXISTING WATER TREATMENT FACILITY



Proposed Relocation Points of the three (3) Water Wells (est: 850' depth) that support Etiwanda Generating Station



Note: This drawing does not accurately reflect the exact Well location (reference only) nor the underground pipe route.



The proposed new West Well would be located as seen in the photographs (X). Its just east of Chadwick Channel.

Appendix D
System Impact Study

Please note that the figures are printed in black and white,
but provided in color on the CD.

RELIANT ENERGY

**ETIWANDA CCGT EXPANSION
PROJECT**

SYSTEM IMPACT STUDY

June 4, 2007

Performed by:
California Independent System Operator



California ISO
Your Link to Power

EXECUTIVE SUMMARY

On October 24, 2006, Reliant Energy Etiwanda, Inc. (“Reliant”) applied to the California Independent System Operator (“CAISO”) for interconnection pursuant to Section 3.5 of the Large Generator Interconnection Procedures (“LGIP”) issued under the CAISO Tariff. Reliant Energy Etiwanda, Inc requested to interconnect its proposed 698 MW Etiwanda Combined Cycle Gas Turbine (“CCGT”) Expansion (“Project”) and as an alternate, its proposed 504 MW Etiwanda Simple Cycle Gas Turbine (“SCGT”) Expansion Project, located in Rancho Cucamonga, California to Southern California Edison’s future Rancho Vista Substation at 500 kV. As a result of an interconnection application received from Reliant, CAISO and Southern California Edison (“SCE”) will perform a System Impact Study (SIS) for the proposed Project. Reliant waived the performance of a Feasibility Study. The Project has requested a Commercial Operation Date (COD) of June 1, 2010. A separate SIS will be conducted for the alternate 504 MW Etiwanda SCGT Expansion project.

The SIS in this report indicated that the system is **not adequate** to accommodate the 698 MW of generation without modifications. A Facilities Study will be required for the Project. The results of the SIS will be used as the basis to determine project cost allocation for facility upgrades in the Facilities Study. *The study accuracy and the results for the assessment of the system adequacy are contingent on the accuracy of the technical data provided by Reliant.* Any changes from the attached data could void the study results.

Please be aware that a restudy may be required to reflect the system configuration if a higher queued generation or transmission project that was modeled in the Reliant's SIS withdraws or is modified in accordance with applicable tariff allowances.

POWER FLOW STUDY RESULTS

The power flow study results identified no overloading problems on any transmission lines for single and double contingencies that were attributed to CCGT Expansion Project.

Base case

Under peak and off-peak conditions, the power flow study identified no base case overloads attributed to the CCGT Project.

Single (N-1) and Double (N-2) Contingencies

Under peak and off-peak conditions, the power flow study identified no contingency overloads attributed to the CCGT Project. The study identified pre-project overloads that were aggravated more than 1% by the CCGT Project (detailed description shown in Appendix A).

TRANSIENT & POST TRANSIENT VOLTAGE STABILITY STUDY RESULTS

SCE performed Transient and Post-Transient Stability studies for the Project. The study results identified no Transient or Post-Transient stability criteria violations triggered or impacted by the addition of the Project for both peak and off-Peak conditions.

SHORT CIRCUIT DUTY STUDY

The data provided by Reliant has been used to study the Short Circuit Duty contribution. The addition of the CCGT Project has impacted 54 substations with short circuit duty increases greater than 0.1 kA for the three phase and single line to ground short circuit duty, (Refer to Table 3.1 and Table 3.2 – Short Circuit Duty Results for details).

There are no circuit breaker replacements or upgrades triggered by the CCGT Project on the bulk power system. The CCGT Project has increased the short circuit duty at substations that require 500 kV and 230 kV circuit breaker replacements and/or upgrades triggered by earlier projects ahead of the CCGT Project in the application queue. **Please be aware that a restudy may be required to reflect the system configuration if a higher queued generation or transmission project that was modeled in the Reliant's SIS withdraws or is modified in accordance with applicable tariff allowances.**

SCOPE OF WORK

An Operational Study will also need to be performed as part of the Facilities Study based on in-service year, as opposed to interconnection application queue order. The Operational Study will evaluate the need for having circuit breaker upgrades and mitigation of overloaded facilities in-service prior to Project interconnection, even if these upgrades are assigned to earlier-queued projects that may have later in-service dates.

COST ESTIMATE OF UPGRADES

The total cost for direct assignment facilities required to interconnect the CCGT Project is \$10,395,000 (all costs are in 2010 dollars and not subject to ITCC tax). Refer to Table 4.1 for detailed cost estimates.

The total cost for 500 kV and 230 kV circuit breaker replacements and/or upgrades that are triggered by earlier projects ahead of the CCGT Project in the application queue is \$128,993,000 (all costs are in 2011 dollars and not subject to ITCC tax). Refer to Table 4.2 for detailed cost estimates.

Estimates include the cost of upgrading the Etiwanda, Mira Loma, and Vincent 230 kV switchyards to 80kA rating.

Note: All cost estimates are rough order of magnitude, and are non-binding cost estimates.

Please be aware that a restudy may be required to reflect the system configuration if a higher queued generation or transmission project that was modeled in the Reliant's SIS withdraws or is modified in accordance with applicable tariff allowances.

TABLE OF CONTENTS

	Page
I. INTRODUCTION	1
II. STUDY CONDITIONS AND ASSUMPTIONS	1
A) Planning Criteria	1
B) Reliant's Etiwanda CCGT Expansion Project	5
C) System Conditions	7
D) Power Flow Study	8
E) Transient and Post-Transient Voltage Stability Study	9
F) Short Circuit Duty Study	9
III. POWER FLOW STUDY RESULTS	9
IV. TRANSIENT AND POST-TRANSIENT STABILITY STUDY RESULTS	10
V. SHORT CIRCUIT DUTY STUDY RESULTS	11
VI. CONCLUSIONS	13
VII. SCOPE OF WORK FOR FACILITIES STUDY	14
VIII. COST ESTIMATE OF UPGRADES	15
APPENDIX A- Pre and Post Project Overloads	18
- Pre and Post Project Power Flow Diagrams	
- Stability Plots	

**RELIANT ENERGY ETIWANDA, INC.
ETIWANDA CCGT EXPANSION PROJECT**

SYSTEM IMPACT STUDY

I. INTRODUCTION

On October 24, 2006, Reliant Energy Etiwanda, Inc. (“Reliant”) applied to the California Independent System Operator (“CAISO”) for interconnection pursuant to Section 3.5 of the Large Generator Interconnection Procedures (“LGIP”) issued under the CAISO Tariff. Reliant Energy Etiwanda, Inc requested to interconnect its proposed 698 MW Etiwanda Combined Cycle Gas Turbine (“CCGT”) Expansion (“Project”) and as an alternate, its proposed 504 MW Etiwanda Simple Cycle Gas Turbine (“SCGT”) Expansion Project, located in Rancho Cucamonga, California to Southern California Edison’s future Rancho Vista Substation at 500 kV. As a result of an interconnection application received from Reliant, CAISO and Southern California Edison (“SCE”) will perform a System Impact Study (SIS) for the proposed Project. Reliant waived the performance of a Feasibility Study. The Project has requested a Commercial Operation Date (COD) of June 1, 2010. A separate SIS will be conducted for the alternate 504 MW Etiwanda SCGT Expansion project.

The SIS in this report indicated that the system is **not adequate** to accommodate the 698 MW of generation without modifications. A Facilities Study will be required for the Project.

The results of the SIS will be used as the basis to determine project cost allocation for facility upgrades in the Facilities Study. *The study accuracy and the results for the assessment of the system adequacy are contingent on the accuracy of the technical data provided by Reliant.* Any changes from the attached data could void the study results.

The study was performed for two system conditions representing: (a) 2011 peak load (one in-ten-year heat wave assumption) with maximum study area generation, and (b) off-peak load (65% of 2011 peak load) for the total transmission system. These conditions reflected the most critical expected loading condition for the transmission system in SCE’s eastern area.

II. STUDY CONDITIONS AND ASSUMPTIONS

A. Planning Criteria

The study was conducted by applying the California Independent System Operator (CAISO) Reliability Criteria. More specifically, the main criteria applicable to this study are as follows:

Power Flow Assessment

The following contingencies are considered for transmission or sub-transmission lines and 500/230 kV transformer banks (“AA-Bank”):

Assuming both San Onofre Units 2 and 3 in service and then:

- Single Contingencies (N-1 Line or N-1 AA-Bank)
- Double Contingencies (N-2 Two Lines, N-1 Line and N-1 AA-Bank)
(Outages of two AA-Banks are beyond the Planning Criteria)

The following criteria are used:

Table 1.1

Transmission Lines	Base Case	Limiting Component Normal Rating
	N-1	Limiting Component A-Rating
	N-2	Limiting Component B-Rating
500-230 kV Transformer Banks	Base Case	Normal Loading Rating
	Long & Short Term	As Defined by SCE Operating Bulletins

System upgrades or Special Protection Systems for transmission lines are generally recommended only for base case overloads, single contingency overloads in excess of the A-Rating, and common mode failure double contingencies in excess of the B-Rating.

Congestion Assessment

The following principles, outlined below, were used for interconnecting generation into the SCE transmission system, which fall under CAISO jurisdiction (these principles may be subject to change for future interconnection projects).

- Congestion management, as a means to mitigate base case overloads, can be used if it is determined to be manageable and the CAISO concurs with the implementation.
- Facility upgrades will be required if it is determined that the use of congestion management is unmanageable as defined in the congestion management section that follows.
- Special protection schemes (SPS), in lieu of facility upgrades, will be recommended if the scheme is effective, does not jeopardize system integrity, does not exceed the current CAISO single and double contingency tripping limitations, does not adversely effect existing or proposed special protection schemes in the area, and can be readily implemented.
- Facility upgrades will be required if use of protection schemes is determined to be ineffective, the amount of tripping exceeds the current CAISO single and double contingency tripping limitations, adverse impacts are identified on existing or currently proposed special protection schemes, or the scheme cannot be readily implemented.
- Congestion management in preparation for the next contingency will be required, with CAISO concurrence, if no facility upgrades or special protection schemes are implemented.

The following study method was implemented to assess the extent of possible congestion:

- a) Under Base Case with all transmission facilities in service, the system was evaluated with all existing interconnected generation and all generation requests in the area that have a queue position ahead of this request (pre-project).
- b) Under Base Case with all transmission facilities in service, the system was reevaluated with the inclusion of the Project (post-project).

If the normal loading limits of facilities are exceeded in (a), the overload is identified as an existing overload that was triggered by a project in queue ahead of the Project. If the normal loading limits of facilities are exceeded in (b) and were not exceeded in (a), the overload is identified as triggered by the addition of the Project. The Project, assuming it is a market participant, and other market participants in the area may be subjected to congestion management, potential upgrade cost and/or participation of any proposed special protection scheme if the project addition aggravates or triggers the overload. Additionally, the Project may have to participate in mitigation of overloads triggered by subsequent projects in queue, subject to FERC protocols and policies.

In order for congestion management to be a feasible alternative to system facilities, all of the following factors need to be satisfied:

- Time requirements for necessary coordination and communication between the CAISO operators, scheduling operators and SCE operators.
- Distinct Path/Corridor rating should be well defined so monitoring and detecting congestion and implementing congestion of the contributing generation resources can be performed when limits are exceeded.
- Sufficient amount of market generation in either side of the congested path/corridor should be available to eliminate market power.
- Manageable generation in the affected area is necessary so that operators can implement congestion management if required (i.e. the dispatch schedule is known and controllable).

The results of these studies should identify:

- a. if capacity is available to accommodate the proposed Project and all projects ahead in queue without the need for congestion management, special protection schemes, or facility upgrades
- b. if overloads exist in the area after the addition of all projects in queue ahead of the Project and all facilities in service
- c. if congestion exists in the area with the addition of the Project and all projects ahead in queue under single and double element outage conditions assuming no new special protection schemes are in place

- d. if sufficient capacity is maintained to accommodate all Must-Run and Regulatory Must-Take generation resources with all facilities in service
- e. if sufficient capacity is maintained to accommodate the total output of any one generation resource which is not classified as Must-Run.

Transient Stability Analysis

WECC currently is in the process of adopting The Generator Electrical Grid Fault Ride-Through Capability Criteria. SCE currently supports a Low Voltage Ride-Through Criteria to ensure continued reliable service. A proposed Criteria that SCE supports, is as follows:

1. Generator is to remain in-service during system faults (three phase faults with normal clearing and single-line-to-ground with delayed clearing) unless clearing the fault effectively disconnects the generator from the system.
2. During the transient period, generator is required to remain in-service for the low voltage and frequency excursions specified in WECC Table W-1 (provided below) as applied to load bus constraint. These performance criteria are applied to the generator interconnection point, not the generator terminals.
3. Generators may be tripped after the fault period if this action is intended as part of a special protection scheme.
4. This Standard will not apply to individual units or to a site where the sum of the installed capabilities of all machines is less than 10 MVA, unless it can be proven that reliability concerns exist.
5. The performance criteria of this Standard may be satisfied with performance of the generators or by installing equipment to satisfy the performance criteria.
6. The performance criterion of this Standard applies to any generation independent of the interconnected voltage level.
7. No exemption from this Standard will be given because of minor impact to the interconnected system.
8. Existing generators that go through any refurbishments or any replacements are then required to meet this Standard.

In addition to the Low Voltage Ride-Through Criteria, the following criterion was applied for the transient stability analysis:

- a) All machines in the system shall remain in synchronism as demonstrated by their relative rotor angles.
- b) All stability simulation cases will be run for a minimum of 10 seconds.
- c) Generators with a base load flag of zero will not respond to contingencies.
- d) System stability is evaluated based on the damping of the relative rotor angles and the damping of the voltage magnitude swings.

Other transient voltage dips must meet the following CAISO Reliability Criteria:

Performance Level	Disturbance	Transient Voltage Dip Criteria
B	N-1	<u>Transient Voltage Dip</u> : Not to exceed 25% at load buses or 30% at non-load buses. Also, not to exceed 20% for more than 20 cycles at load buses. <u>Minimum Transient Frequency</u> : Not below 59.6 Hz for 6 cycles or more at a load bus.
C	N-2	<u>Transient Voltage Dip</u> : Not to exceed 30% at any bus. Also, not to exceed 20% for more than 40 cycles at load buses. <u>Minimum Transient Frequency</u> : Not below 59.0 Hz for 6 cycles or more at a load bus.
D	N-3	Not Specified

Post Transient Voltage Study

Those contingencies that show significant voltage deviations in the power flow analysis are selected for further analysis using governor power flow analysis. Typically, voltage deviations of 5% or more in the power flow analysis are flagged for the post transient voltage study. The voltage deviations are compared to the SCE guidelines of 7% for single contingency outages and 10% for double contingency outages.

Short-Circuit Analysis

The following study assumptions were used for conducting the short-circuit analysis:

- a) Shunt capacitor banks will be omitted at all stations. Normally, shunt capacitors produce a minimal effect on fault currents. When they are large enough to be significant, their effect is to reduce total fault current. Results are more conservative to neglect them altogether.
- b) Shunt reactors will also be neglected since their contribution is minimal.
- c) Reactors connected to autotransformer delta tertiary windings will be neglected since they cannot contribute fault current to the system.
- d) Phase shifting transformers will be by-passed as this would be the worst case from the fault current standpoint.
- e) If zero sequence data is not available, the assumption will be made that $X0=3*X1$ and $R0=3*R1$.

Circuit breakers exposed to fault currents in excess of 100 percent of their interrupting capacities will be replaced or upgraded, whichever is appropriate.

B. Reliant’s Etiwanda CCGT Expansion Project

The proposed CCGT Project is geographically located in the City of Rancho Cucamonga in San Bernardino County. Reliant proposes to connect a 698 MW, 2 on 1 combined cycle

generating plant for delivery of energy to ISO Grid at SCE's proposed Rancho Vista 500 kV Substation.

Etiwanda CCGT Expansion Project

2 Combustion Turbine Generators (188 MW each)	376 MW
1 Steam Turbine Generator	338 MW
Auxiliary Load	16 MW
Net Plant Output	698 MW

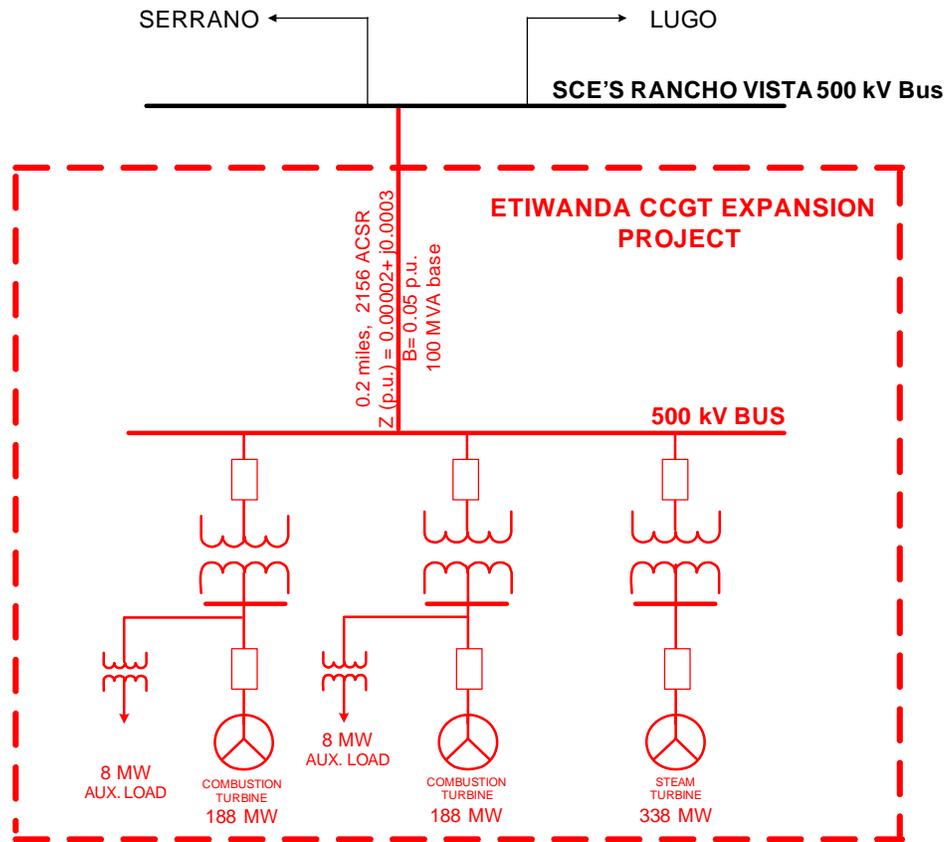
With the interconnection application submitted, Reliant proposed two 500 kV transmission lines to be connected from the Rancho Vista 500 kV bus to the CCGT Project. After review, Reliant authorized SCE and the CAISO to conduct the study assuming one 500 kV transmission line that would consist of 0.2 miles of bundled 2156 ACSR conductor from the Rancho Vista 500 kV bus to the CCGT Project.

Figure 1, below, displays the equivalent single line diagram that SCE used to model the new generation.

FIGURE 1

RELIANT ENERGY ETIWANDA, INC.
ETIWANDA CCGT EXPANSION PROJECT

SINGLE LINE DIAGRAM



C. System Conditions

To simulate the SCE transmission system for analysis, the study selected the databases that were used to conduct the annual CAISO Controlled Transmission Expansion Assessment. Load flow studies considered the existing system arrangement as well as the planned transmission projects in queue ahead of the CCGT Project:

- Existing Devers – Harquahala (DPV2) 500 kV Transmission Line in service
- Rancho Vista 500/230 kV Substation in service
- West-of-Devers upgrades in service
- Devers – Mirage 115 kV System in “split” configuration
- Jurupa 220/66kV Substation in service
- El Casco 230/115 kV Substation in service
- New Vincent-Mira Loma 500 kV Transmission Line in service
- Devers-Coachella 230 kV Line Loop-in to Mirage Substation in service

- New Devers-Mirage 230 kV Transmission Line in service
- New Devers-Valley No. 2 500 kV Transmission Line in service

The bulk power study considered scenarios that evaluated maximum east of river/ west of river (“EOR/WOR”) imports and maximum generation from Qualified Facilities in the eastern area. These conditions were evaluated to identify critical case scenarios that would stress the SCE 500 kV transmission system network in the eastern area. In addition, the study considered two system load conditions: representing 2011 peak load and 2011 off-peak load.

D. Power Flow Study

Power flow studies were conducted under 2011 peak load and 2011 off-peak load conditions with and without the Project. Further descriptions of the base case assumptions are as follows:

- a) 2011 Peak Load: The Pre-Project case is **without** the Reliant CCGT Project and Post-Project case is **with** the Reliant CCGT Project. Each case scenario was studied with maximum generation in SCE’s eastern area electrical system and maximum EOR/WOR power flow. Generation included: all market and all regulatory must-take units. Generation patterns were maximized in the eastern area to fully stress the system in order to identify extent of potential congestion on the bulk power system with the addition of the Project. A power flow plot is provided in Appendix A.
- b) 2011 Off-Peak Load: The Pre-Project case is **without** the Reliant CCGT Project and Post-Project case is **with** the Reliant CCGT Project. Each case scenario was studied with 2011 off-peak load (65% of peak load for the total system) and maximum generation in SCE’s eastern area and maximum EOR/WOR power flow. Generation included: all market and all regulatory must-take units. Generation patterns were maximized in the eastern area to fully stress the system in order to identify the extent of potential congestion on the bulk power system with the addition of the Project. A power flow plot is provided in Appendix A.

With the addition of the Project, SCE’s area total generation, imports, loads, and losses for each case are summarized in table below:

Table 2.1

SCE AREA TOTAL GENERATION, IMPORT, LOAD AND LOSSES (MW)				
	2011 Peak Load		2011 Off-Peak Load	
	Pre-Project	Post-Project	Pre-Project	Post-Project
Generation	20,874	20,888	14,729	14,764
Imports	7,591	7,591	3,831	3,831
Load	27,366	27,382	17,468	17,484
Losses	526	524	518	537

Simulations

For each of the four cases, load flow simulations of the bulk power system were conducted for the base case, single contingencies and double contingencies for lines and 500-230 kV transformer banks to determine impacts to the SCE system. A total of 70 single and 80 double contingencies in the SCE system were studied with system performance monitored for criteria violations on the SCE 500 kV and 230 kV systems.

The study focused on identifying system thermal overloads within the SCE service territory. Reported thermal overloads were limited to the condition where a modeled transmission component was loaded over 100% of its appropriate normal rating (as entered in the power flow database). In addition, only incremental element loadings greater than 1% between the pre and post-project cases were reported.

E. Transient and Post-Transient Voltage Stability

Those contingencies that show significant voltage deviations in the power flow analysis are selected for further analysis using governor power flow analysis. Typically, voltage deviations of 5% or more in the power flow analysis are flagged for the post-transient voltage study. The voltage deviations are compared to the SCE guidelines of 7% for single contingency outages and 10% for double contingency outages.

F. Short Circuit Duty

The symmetrical three-phase and single line to ground short circuit duty analysis was performed as part of this study.

III. POWER FLOW STUDY RESULTS

A. 2011 Off-Peak Load Results

Base Case

The power flow study identified no base case overloads attributed to the CCGT Project.

Single (N-1) Contingencies

The power flow study identified no single contingency overloads attributed to the CCGT Project in the 2011 off-peak load case. The study identified pre-project overloads that were aggravated more than 1% by the CCGT Project (highest line loadings shown in Appendix A, Table 1.A, all others shown in Table 1.B). Since these overloads are within the corresponding emergency line rating limits, no mitigation is required.

Double (N-2) Contingencies

The power flow study identified no double contingency overloads attributed to the CCGT Project in the 2011 off-peak load case. The study identified pre-project overloads that were aggravated more than 1% by the CCGT Project (highest line loadings shown in Appendix A,

Table 2.A). Since these overloads are within the corresponding emergency line rating limits, no mitigation is required.

The study identified one N-2 contingency overload, aggravated by the CCGT Project, above its emergency line rating limit on the Barre-Ellis No. 1 230 kV line. The Barre-Ellis No. 1 230 kV line loading increased 87 Amps (3.5%) from 3350 Amps (135.1%) to 3437 Amps (138.6%) of its normal rating.

B. 2011 Peak Load Results

Base Case

The power flow study identified no base case overloads attributed to the CCGT Project.

Single (N-1) Contingencies

The power flow study identified no N-1 contingency overloads attributed to the Project in the 2011 peak load case.

Double (N-2) Contingencies

The power flow study identified no N-2 contingency overloads attributed to the CCGT Project in the 2011 peak load case. The study identified pre-project overloads that were aggravated more than 1% by the CCGT Project (detailed description shown in Appendix A, Table 2). Since these overloads are within the corresponding emergency line rating limits, no mitigation is required.

IV. TRANSIENT AND POST-TRANSIENT VOLTAGE STABILITY STUDY RESULTS

The transient and post transient studies did not show any violations of criteria. The post-transient voltage analysis was performed for the following contingencies:

Devers-San Bernardino & Devers-Oak Valley 230-kV DLO

Devers-Mirage 230-kV DLO

Devers-Valley 500-kV DLO

Lugo-Rancho Vista & Lugo-Mira Loma 500-kV DLO

Lugo-Serrano & Lugo-Mira Loma 500-kV DLO

Devers-San Bernardino & Devers-Vista 230-kV DLO

Rancho Vista-Mira Loma 500-kV DLO

Lugo-Mira Loma 500-kV DLO

Vincent-Mira Loma 500-kV SLO

Devers-Palo Verde 500-kV SLO

Devers-Valley 500-kV SLO

Rancho Vista-Serrano 500-kV SLO

Devers-San Bernardino 230-kV SLO

V. SHORT CURCUIT DUTY STUDY RESULTS

Short Circuit Duty Study

The symmetrical three-phase short circuit duty study results indicated that the CCGT Project increases short-circuit duties at 34 bulk power substations by 0.1kA or more as shown in the following Table 3.1. The single line to ground short circuit duty study results indicated that the CCGT Project increases short-circuit duties at 20 bulk power substations by 0.1kA or more as shown in the following Table 3.2.

The additional 698 MW Project has increased the short circuit duty at the substation facilities listed below for further review. However, study results may change due to other projects ahead of the queue in the area. A new study may be required when those projects are revised.

Table 3.1

Three Phase (3PH) Short Circuit Duty Study Results

Bus Name	Bus kV	PRE CASE		POST CASE		DELTA KA
		X/R	KA	X/R	KA	
ANTELOPE	500	20.7	32.2	20.7	32.3	0.1
DEVERS	500	17.8	26	17.8	26.1	0.1
ELDORADO	500	19.7	46.9	19.7	47	0.1
LEELAKE	500	23.9	22.8	23.9	23	0.2
LUGO	500	23.4	52	23.9	53.3	1.3
MIRALOMA	500	25.1	40.5	25.6	41.5	1
PISGAH	500	20.4	22.8	20.4	22.9	0.1
RANCHO VISTA	500	30.4	28.7	33.9	32.1	3.4
SERRANO	500	25.8	33.9	26.2	35	1.1
VINCENT	500	18.7	44.8	18.8	45	0.2
ALMITOSE	230	16.9	31	16.9	31.1	0.1
ALMITOSW	230	23.7	35.6	23.7	35.7	0.1
ANTELOPE	230	23	36	23.1	36.1	0.1
BARRE	230	19.1	51.9	19.1	52.2	0.3
CENTER S	230	16.2	43.2	16.2	43.3	0.1
CHINO	230	17	51.6	17.1	52.2	0.6
DELAMO	230	16.1	45.8	16.1	45.9	0.1
DEVERS	230	22.2	47.4	22.2	47.5	0.1
EAGLE ROCK	230	13.7	23.5	13.7	23.6	0.1
ELLIS	230	17.8	42.1	17.8	42.2	0.1
ETIWANDA	230	28.2	64.8	29.6	66.8	2
HINSON	230	23.4	53.9	23.3	54	0.1
HUNTBCHB	230	14.6	30.4	14.6	30.5	0.1

Table 3.1 (cont.)**Three Phase (3PH) Short Circuit Duty Study Results (cont.)**

Bus Name	Bus KV	PRE CASE		POST CASE		DELTA KA
		X/R	KA	X/R	KA	
JURUPA	230	12.8	25.1	12.8	25.2	0.1
LA FRESA	230	26.9	50.2	26.9	50.3	0.1
LEWIS	230	21.7	46.7	21.9	47.1	0.4
LUGO	230	35.3	50.3	36	50.6	0.3
MESA CAL	230	16.9	52.9	16.9	53	0.1
MIRA LOMA E	230	24	67.7	24.5	69.1	1.4
MIRA LOMA W	230	20.6	54.3	20.7	54.9	0.6
PADUA	230	15.2	21.6	15.3	21.8	0.2
RANCHO VISTA	230	28.3	65.3	29.7	67.2	1.9
S.ONOFRE	230	29.8	41.5	29.7	41.6	0.1
SANBRDNO	230	20.7	40.9	20.7	41	0.1
SANTIAGO	230	19.6	27.7	19.5	27.8	0.1
SERRANO	230	26.4	56.3	26.8	57	0.7
SYLMAR S	230	19.3	60.1	19.3	60.2	0.1
VILLA PK	230	22.9	48.8	23.1	49.3	0.5
VINCENT	230	23.8	60.7	23.9	60.9	0.2
VISTA	230	19.2	50.5	19.2	50.9	0.4

Table 3.2**Single Line to Ground (SLG) Short Circuit Duty Study Results**

Bus Name	Bus KV	PRE CASE		POST CASE		DELTA KA
		X/R	KA	X/R	KA	
LUGO	525	13.1	42.5	12.7	43.6	1.1
MIRA LOMA	525	10.8	36.9	9.8	37.8	0.9
PISGAH	525	21.7	21.2	21.7	21.3	0.1
RANCHO VISTA	525	8.6	25.9	12.5	31.4	5.5
SERRANO	525	13.5	29.1	13.5	29.8	0.7
VINCENT	525	14.4	33.8	14.3	33.9	0.1
ANTELOPE	230	26.3	39.6	26.4	39.7	0.1
BARRE	230	13.9	46	13.9	46.2	0.2
CHINO	230	12.4	41	12.3	41.3	0.3
DEVERS	230	19.9	50.3	19.9	50.4	0.1
ETIWANDA	230	18.7	65.4	22.1	68.1	2.7
JOHANNA	230	15.6	23.2	15.6	23.3	0.1
LEWIS	230	17	43.8	17	44.1	0.3
LUGO	230	25.2	51.7	25.1	52.1	0.4
MIRA LOMA A	230	13.2	57.9	12.9	58.5	0.6
MIRA LOMA B	230	11.6	65.5	11.3	66.8	1.3
PADUA	230	16.9	19.3	17	19.4	0.1
RANCHO VISTA	230	18.2	66.6	22.2	69.7	3.1
SAN BRDNO	230	26.9	40.4	26.9	40.5	0.1
SAN ONOFRE	230	21.8	33.4	21.8	33.5	0.1
SERRANO	230	18.8	57.9	18.9	58.5	0.6

Table 3.2 (cont.)

Single Line to Ground (SLG) Short Circuit Duty Study Results

Bus Name	Bus KV	PRE CASE		POST CASE		DELTA KA
		X/R	KA	X/R	KA	
VILLA PARK	230	16	44.7	16	45	0.3
VINCENT A	230	18.3	57.7	18.3	57.8	0.1
VISTA	230	16	43.6	16	43.8	0.2
CAPWIND	115	6.6	4.8	6.6	4.9	0.1
VALLEY AB	115	43	25	43.1	25.1	0.1

POST-PROJECT CASE

No short-circuit duty violations were triggered by the Project.

PRE-PROJECT CASE

As previously discussed, the Project should be advised that there are pre-project overloads on numerous circuit breakers at multiple Substations which the Project contributes to. **Please be aware that a restudy may be required to reflect the system configuration if a higher queued generation or transmission project that was modeled in the Reliant’s SIS withdraws or is modified in accordance with applicable tariff allowances.**

Refer to the Cost Estimate of Upgrades section for all breaker replacements that will be required.

VI. CONCLUSIONS

The study results show that the existing system is **not adequate** to accommodate the CCGT Project without upgrades. **Please be aware that a restudy may be required to reflect the system configuration if a higher queued generation or transmission project that was modeled in the Reliant’s SIS withdraws or is modified in accordance with applicable tariff allowances.**

A. Power Flow Study Conclusions

Load flow studies were conducted under conditions representing 2011 peak load and 2011 off-peak load with and without the Project.

Base case

Under peak and off-peak conditions, the power flow study identified no base case overloads attributed to the CCGT Project.

Single (N-1) and Double (N-2) Contingencies

Under peak and off-peak conditions, the power flow study identified no contingency overloads attributed to the CCGT Project. The study identified pre-project overloads that

were aggravated more than 1% by the CCGT Project (detailed description shown in Appendix A). No mitigation is required for overloads within the corresponding emergency line rating limits.

The study identified one N-2 contingency overload under off-peak conditions, aggravated by the CCGT Project, above its emergency line rating limit on the Barre-Ellis No. 1 230 kV line. This overload is caused by insufficient generation dispatch in South Orange County during off-peak load conditions. This overloading issue will need to be addressed by committing RMR generation or by the SCE Annual Transmission Expansion Planning Process.

B. Transient and Post-Transient Voltage Stability Study Conclusions

SCE performed Transient and Post-Transient Stability studies for the CCGT Project. There were no Transient or Post-Transient stability criteria violations impacted or triggered by the addition of the Project.

C. Short Circuit Duty Study Conclusions

The data provided by Reliant has been used to study the Short Circuit Duty contribution. The addition of the CCGT Project has impacted 34 substations with short circuit duty increases greater than 0.1 kA for the three phase short circuit duty and 20 substations for the single line to ground short circuit duty.

There are no circuit breaker replacements or upgrades triggered by the CCGT Project on the bulk power system. The CCGT Project has increased the short circuit duty at substations that require 500 kV and 230 kV circuit breaker replacements and/or upgrades triggered by earlier projects ahead of the CCGT Project in the application queue.

VII. SCOPE OF WORK FOR FACILITIES STUDY

A Facilities Study is required for the Project. The transmission upgrades required to address pre-project overloads triggered by the projects in queue ahead of the CCGT Project are described below in Table 4.2.

The following overloads are caused by insufficient generation dispatch in South Orange County during Off-Peak load conditions. These overloading problems need to be addressed by committing RMR generation or by the SCE Annual Transmission Expansion Planning Process.

These overloads are:

- a. Overload on the Barre-Lewis 230 kV T/L
- b. Overload on the Barre-Ellis 230 kV T/L
- c. Overload on the Barre-Villa Park 230 kV T/L

An Operational Study will also need to be performed as part of the Facilities Study based on in-service year, as opposed to interconnection application queue order. The Operational Study will evaluate the need for having circuit breaker upgrades and mitigation of overloaded facilities in-service prior to Project interconnection, even if these upgrades are assigned to earlier-queued projects that may have later in-service dates.

VIII. COST ESTIMATE OF UPGRADES

As specified in the Large Generator Interconnection Procedures (LGIP) Section 7.3, the SIS will include a non-binding, good-faith estimate of cost and time to construct the Interconnection Facilities and Network Upgrades.

CASE A reflects those facilities that are required exclusively by the Project (e.g., interconnection facilities and system upgrades, including Special Protection Schemes, required to mitigate planning criteria violations triggered by the Project. Reliant is responsible for all costs associated with CASE A.

All cost estimates are non-binding rough order of magnitude, and are non-binding cost estimates.

- a. Direct assignment facilities required to interconnect the CCGT Project:
 - Equip one double breaker, double bus 220kV line position to terminate the generation tie line at Rancho Vista Substation.

Total Costs: \$10,395,000

(All costs are in 2010 dollars and not subject to ITCC tax)

Refer to Table 4.1 for detailed scope of facility upgrades and cost estimates identified and necessary to accommodate the CCGT Project.

Additional transmission upgrades are required to address pre-project overloads triggered by the projects in queue ahead of the Project.

CASE B reflects those additional facilities that have been identified to mitigate planning criteria violations triggered by projects queued ahead of the Reliant Project and which are expected to be implemented by such earlier queued projects. However, in the event of a change in the queue ahead of the Etiwanda CCGT Expansion Project, such additional facilities may then be triggered by the Etiwanda CCGT Expansion Project (as determined by a restudy). In that event, Reliant would have cost responsibility for those additional Case B facilities (some or all depending on restudy conclusions) that have been triggered by the Etiwanda CCGT Expansion Project as a result of such change in queue. Case B (together with Case A) is intended to provide Reliant an estimate of the Project's maximum cost exposure.

All cost estimates are non-binding rough order of magnitude, and are non-binding cost estimates.

- a. Upgrades/Replacements triggered by earlier projects ahead of the CCGT Project:
 - Upgrade and/or replace 500 kV and 230 kV circuit breakers

Total Costs: \$128,993,000

(All costs are in 2011 dollars and not subject to ITCC tax).

Refer to Table 4.2 for detailed scope of facility upgrades and cost estimates identified and necessary to accommodate the CCGT Project.

Table 4.1
Interconnection Facilities Required for the
CCGT Expansion Project (Case A)
Based on the System Impact Study

ELEMENT	INTERCONNECTION FACILITIES Subject to O&M	RELIABILITY UPGRADES Not Subject to O&M	Income Tax Component of Contribution *	ONE TIME PAYMENT
Rancho Vista Substation - Install a double breaker, double bus position	\$ 7,700,000	\$ -	\$ 2,695,000	\$ 10,395,000
TOTAL				\$ 10,395,000

* ITCC tax (calculated at 35%) is collected via Letter of Credit.

* Pursuant to FERC Order 2003A, there will be no ITCC collected on Reliability Upgrades.
(All costs are in 2010 dollars and not subject to ITCC tax).

Table 4.2
Circuit Breaker Replacement and Upgrades NOT Triggered
by the CCGT Expansion Project (Case B)
Based on the System Impact Study

CASE B - Triggered by earlier Projects ahead of CCGT Project in Application Queue

STATION	Replace	Upgrade	Sets of TRV's Required	Cost of CB	Cost of TRV (Set of 3)	Sub-Total CB	Sub-Total TRV	GRAND TOTAL
Lugo		3	6		\$ 280,000	\$ -	\$ 1,680,000	\$ 1,680,000
Mira Loma**		6				\$ -	\$ -	\$ 30,000
Vincent	4			\$ 2,039,000		\$ 8,156,000	\$ -	\$ 8,156,000
Vincent**		4				\$ -	\$ -	\$ 20,000
Antelope	8	4	4	\$ 563,000	\$ 164,000	\$ 4,504,000	\$ 656,000	\$ 5,160,000
Chino		1	1		\$ 164,000	\$ -	\$ 164,000	\$ 164,000
Devers	9	8	10	\$ 563,000	\$ 164,000	\$ 5,067,000	\$ 1,640,000	\$ 6,707,000
Etiwanda*	24			\$ 703,000		\$ 16,872,000	\$ -	\$ 16,872,000
Hinson	4	6	8	\$ 563,000	\$ 164,000	\$ 2,252,000	\$ 1,312,000	\$ 3,564,000
Lugo	3	2	4	\$ 563,000	\$ 164,000	\$ 1,689,000	\$ 656,000	\$ 2,345,000
Mesa		2	3		\$ 164,000	\$ -	\$ 492,000	\$ 492,000
Mira Loma*	12			\$ 703,000		\$ 8,436,000	\$ -	\$ 8,436,000
Villa Park		2	2		\$ 164,000	\$ -	\$ 328,000	\$ 328,000
Vincent*	20			\$ 703,000		\$ 14,060,000	\$ -	\$ 14,060,000
Vista		22	14		\$ 164,000	\$ -	\$ 2,296,000	\$ 2,296,000
	84	60				\$ 61,036,000	\$ 6,928,000	\$ 68,014,000

** Change nameplate and certification by vendor estimated at \$5,000 per CB

* Requires upgrade of 220 kV switchyard to 80 kV Rating

Additional Costs (Not included in Table 4.2 above)

Etiwanda Gen.Substation - Upgrade 220 kV switchyard to 80 kA rating	(\$ 22,174,000)
Mira Loma Substation - Upgrade 220 kV switchyard to 80 kA rating	(\$ 16,631,000)
Vincent Substation - Upgrade 220 kV switchyard to 80 kA rating	(\$ 22,174,000)
Subtotal	(\$ 60,979,000)

(All costs are in 2011 dollars and not subject to ITCC tax).

Please be aware that a restudy may be required to reflect the system configuration if a higher queued generation or transmission project that was modeled in the Reliant's SIS withdraws or is modified in accordance with applicable tariff allowances.

APPENDIX A

TABLE 1.A
Off-Peak Pre-Project Overloads Aggravated by the CCGT Expansion Project
 (Only highest loadings shown, all others detailed in Table 1.B)

<i>Overloaded Line</i>	<i>Normal Rating</i>	<i>Emergency Rating</i>	<i>PRE Loading</i>	<i>POST Loading</i>	<i>Pre (% of Normal)</i>	<i>Post (% of Normal)</i>	<i>Pre (% of Emerg.)</i>	<i>Post (% of Emerg.)</i>	<i>% Diff</i>	<i>Contingency</i>
										N-1
MOENKOPI-ELDORADO No.1 500 kV	1900	2750	2317.6	2344	122.0%	123.4%	84.3%	85.2%	1.4	LEELAKE-VALLEYSC No. 1 500 kV
BARRE-LEWIS No.1 230 kV	3000	4049	3626.4	3810.8	120.9%	127.0%	89.6%	94.1%	6.1	BARRE - VILLA PK No. 1 230 kV
BARRE-VILLA PK No.1 230 kV	3000	4049	3266.2	3430.7	108.9%	114.4%	80.7%	84.7%	5.5	BARRE- LEWIS No. 1 230 kV
DEVERS-TAP804 No.1 115 kV	1089	1471	1146.6	1164.8	105.3%	106.9%	77.9%	79.2%	1.6	LEELAKE-VALLEYSC No. 1 500 kV
SERRANO-VILLA PK No.2 230 kV	3000	3999	3079.9	3186.6	102.7%	106.2%	77.0%	79.7%	3.5	SERRANO-VILLA PK No. 1 230 kV
										N-2
MOENKOPI-ELDORADO No.1 500 kV	1900	2750	2672.9	2721	140.7%	143.2%	97.2%	98.9%	2.5	PALOVORDE - MIDPOINTS No. 1 500 kV & HARQUAHALA - MIDPOINTS No. 2 500 kV
SERRANO-VILLA PK No.2 230 kV	3000	3999	3774.6	3907.3	125.8%	130.3%	94.4%	97.7%	4.5	SERRANO - VILLA PK No. 1 230 kV & LEWIS - SERRANO No. 1 or 2 230 kV
BARRE-LEWIS No.1 230 kV	3000	4049	3760.7	3905.4	125.4%	130.2%	92.9%	96.5%	4.8	S.ONOFRE - SANTIAGO No. 1 & 2 230 kV
SERRANO-VILLA PK No.1 230 kV	3231	3999	3774.6	3907.3	116.8%	120.9%	94.4%	97.7%	4.1	SERRANO - VILLA PK No. 2 230 kV & LEWIS - SERRANO No. 1 or 2 230 kV
MIRA LOMA-JURUPA No. 1 230 kV	2299	3110	2384.6	2428.3	103.7%	105.8%	76.7%	78.0%	2.1	MIRA LOMA - VISTA No. 1 230 kV & LEELAKE-VALLEYSC No. 1 230 kV
VISTA-JURUPA No. 1 230 kV	2299	3110	2611.9	2657.8	113.6%	115.6%	84.0%	85.4%	2.0	MIRA LOMA - VISTA No. 1 230 kV & LEELAKE-VALLEYSC No. 1 230 kV
LEWIS-VILLA PK No.1 230 kV	2400	2568	2481.3	2579.1	103.4%	107.5%	96.6%	100.4%	4.1	LEWIS - SERRANO No. 1 & No. 2 230 kV

TABLE 1.B
Off-Peak Pre-Project Overloads Aggravated by the CCGT Expansion Project
(Highest loadings detailed in Table 1.A)

<i>Overloaded Line</i>	<i>Normal Rating</i>	<i>Emergency Rating</i>	<i>PRE Loading</i>	<i>POST Loading</i>	<i>Pre (% of Normal)</i>	<i>Post (% of Normal)</i>	<i>Pre (% of Emerg.)</i>	<i>Post (% of Emerg.)</i>	<i>% Diff</i>	<i>Contingency</i>
										N-1
MOENKOPI-ELDORADO No.1 500 kV	1900	2750	1920.4	1948.1	101.1%	102.5%	69.8%	70.8%	1.4	LUGO - RANCHVST No. 1 500 kV
VISTA-SAN BERNARDINO No.2 230 kV	2400	2400	2581.2	2613.7	107.6%	108.9%	107.6%	108.9%	1.3	SERRANO - LEELAKE No. 1 500 kV
										N-2
SERRANO-VILLA PK No.2 230 kV	3000	3999	2941.2	3046.8	98.0%	101.6%	73.6%	76.2%	3.6	LEWIS - SERRANO No. 1 & No. 2 230 kV
BARRE-LEWIS No.1 230 kV	3000	4049	3427.5	3602.5	114.3%	120.1%	84.7%	89.0%	5.8	BARRE - VILLA PK No. 1 230 kV & LEWIS - VILLA PK No. 1 230 kV
BARRE-LEWIS No.1 230 kV	3000	4049	2998.2	3162.8	99.9%	105.4%	74.0%	78.1%	5.5	MIRALOMA - OLINDA No. 1 230 kV & MIRALOMA - WALNUT No. 1 230 kV
BARRE-LEWIS No.1 230 kV	3000	4049	2888.1	3051.2	96.3%	101.7%	71.3%	75.4%	5.4	CENTER S - OLINDA No. 1 230 kV & MESA - WALNUT No. 1 230 kV
BARRE-LEWIS No.1 230 kV	3000	4049	2852.1	3015.1	95.1%	100.5%	70.4%	74.5%	5.4	LUGO - VINCENT No. 1 & 2 500 kV

TABLE 2.A
Peak Pre-Project Overloads Aggravated by the CCGT Expansion Project
(Only highest loadings shown, all others detailed in Table 2.B)

<i>Overloaded Line</i>	<i>Normal Rating</i>	<i>Emergency Rating</i>	<i>PRE Loading</i>	<i>POST Loading</i>	<i>Pre (% of Normal)</i>	<i>Post (% of Normal)</i>	<i>Pre (% of Emerg.)</i>	<i>Post (% of Emerg.)</i>	<i>% Diff</i>	<i>Contingency</i>
										N-2
SERRANO-VILLA PK No.2 230 kV	3000	3999	3084	3196.2	102.8%	106.6%	77.1%	79.9%	3.8%	SERRANO- VILLA PK No. 1 230 kV & LEWIS - SERRANO No. 1 or 2 230 kV
BARRE-ELLIS No.1 230 kV	2480	3211	2807.5	2881.1	113.2%	116.2%	87.4%	89.7%	3.0%	S.ONOFRE - SANTIAGO No. 1 & 2 230 kV

APPENDIX B

POWER FLOW DIAGRAMS

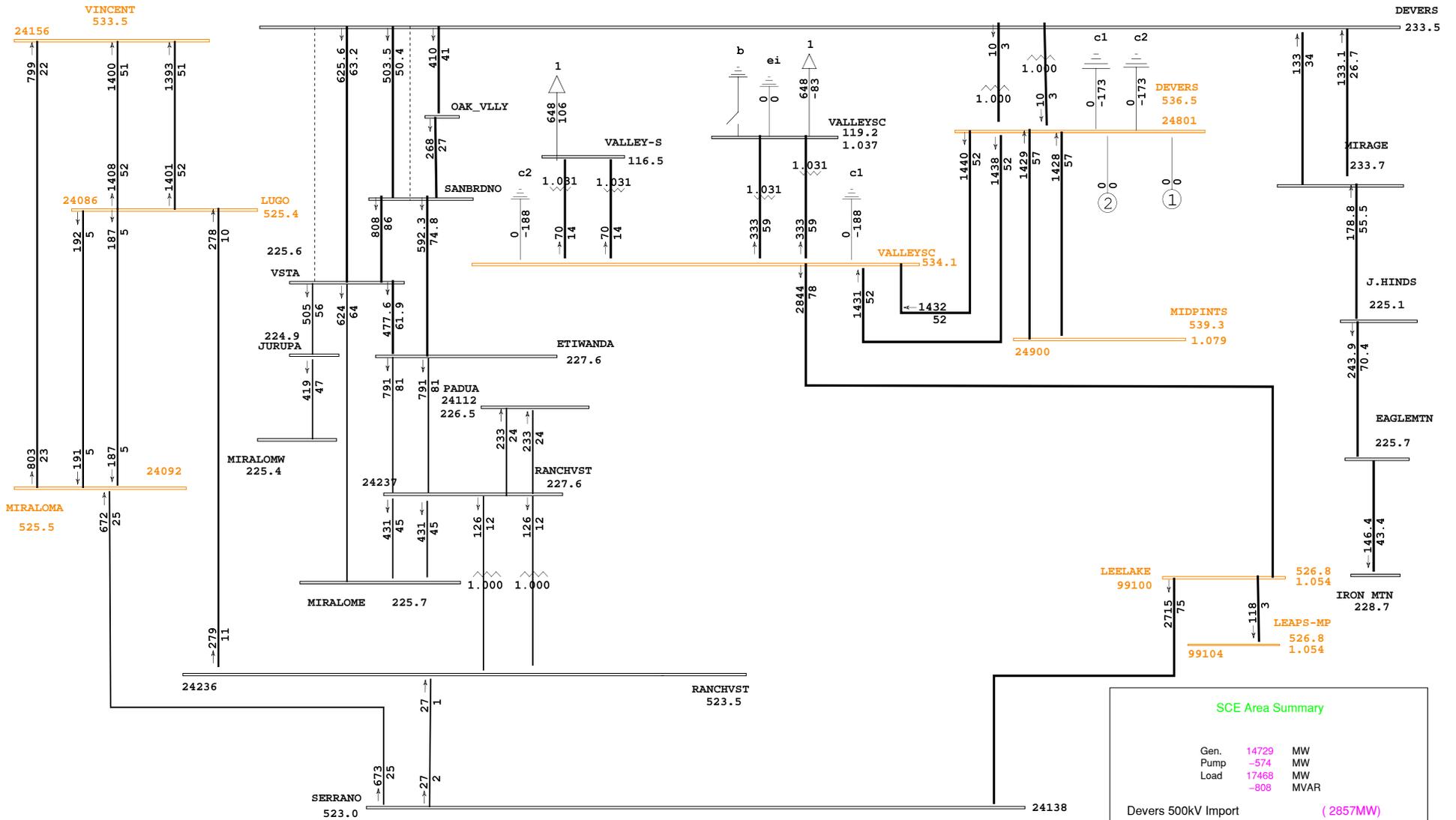
2011 Off-Peak load Pre-Project Case

2011 Off-Peak load Post Project Case

2011 Peak load Pre-Project Case

2011 Peak load Post Project Case

Etiwanda CCGT Expansion Project (Pre-Project)



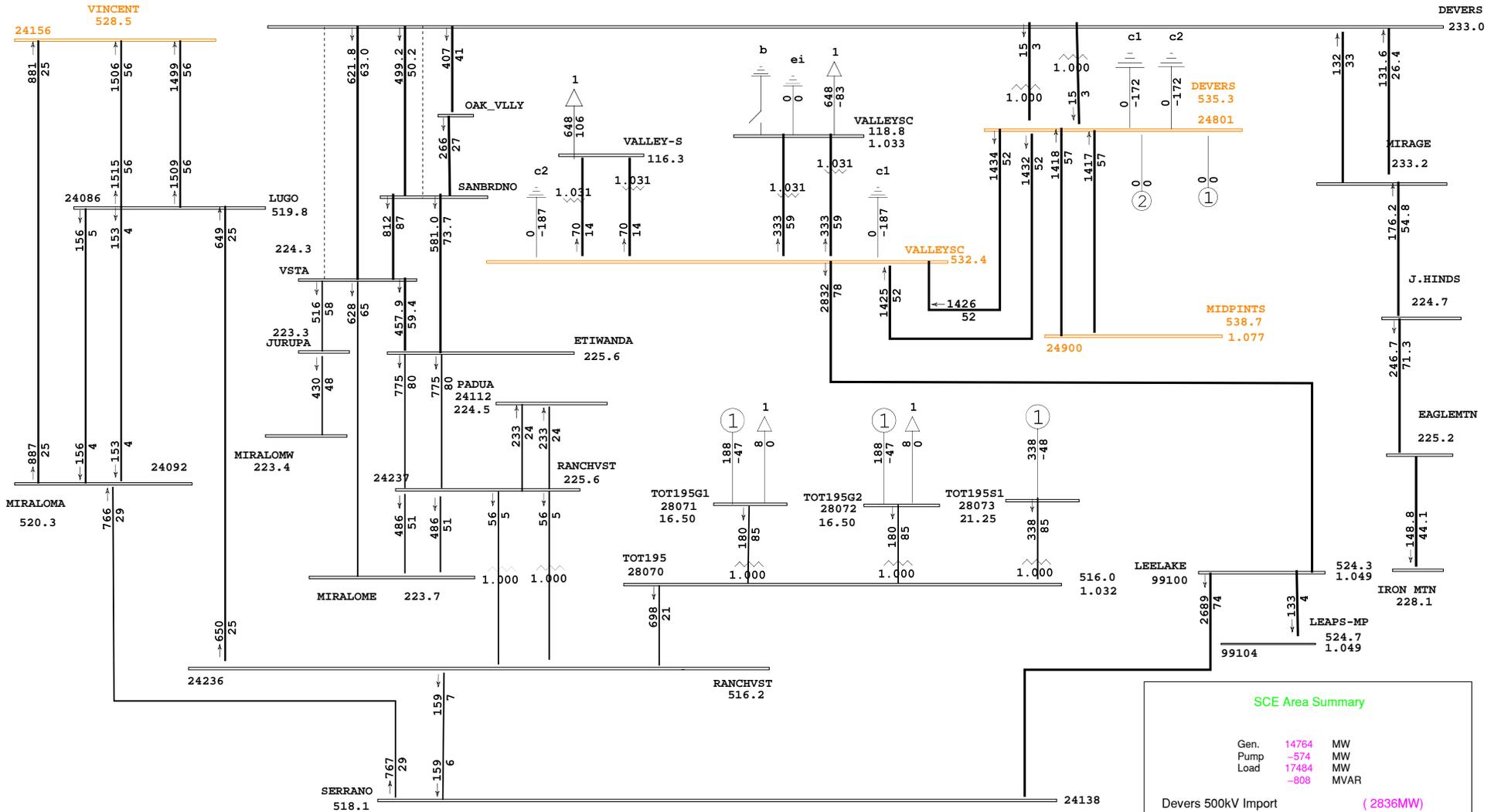
SCE Area Summary

Gen.	14729	MW
Pump	-574	MW
Load	17468	MW
	-808	MVAR

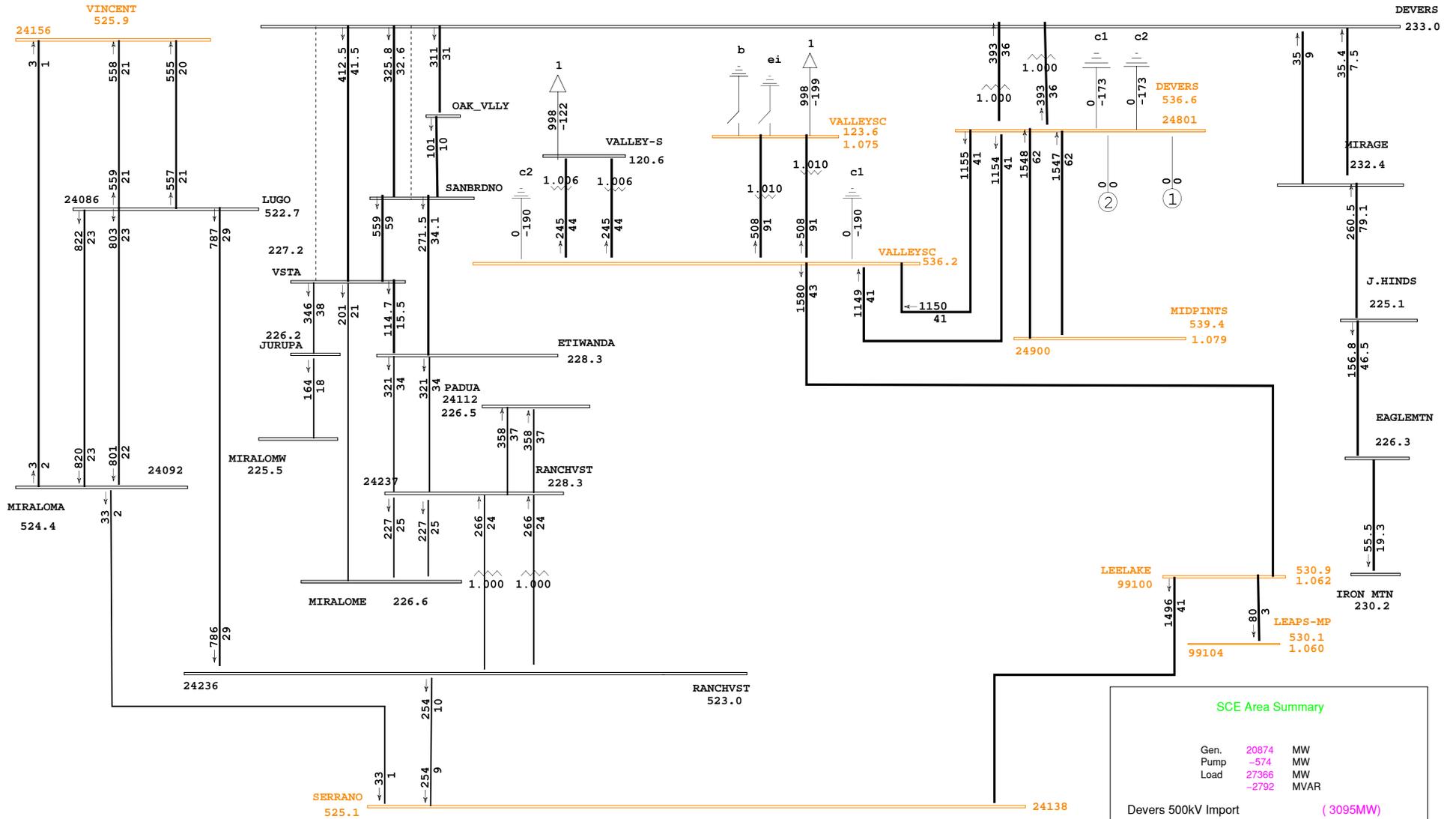
Devers 500kV Import	(2857MW)
West of Devers Flow	2559MW
East of River Flow	(9087MW)
West of River Flow	(9673MW)
N. Basin Import	(-14MW)



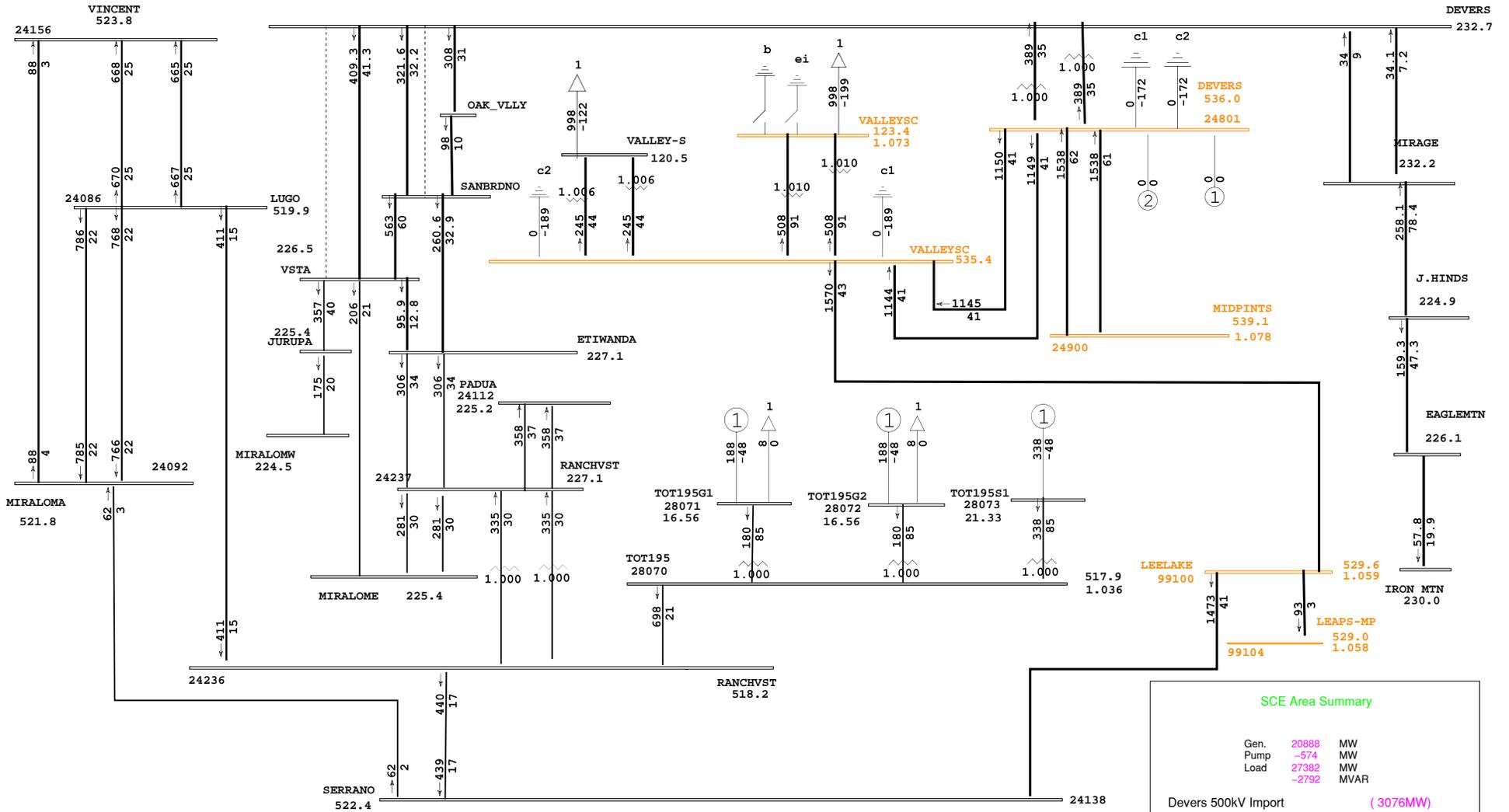
Etiwanda CCGT Expansion Project (Post-Project)



Etiwanda CCGT Expansion Project (Pre-Project)



Etiwanda CCGT Expansion Project (Post-Project)



SCE Area Summary		
Gen.	20888	MW
Pump	-574	MW
Load	27382	MW
	-2792	MVAR
Devers 500kV Import		(3076MW)
West of Devers Flow		2185MW
East of River Flow		(8194MW)
West of River Flow		(9257MW)
N. Basin Import		(2879MW)



APPENDIX B (cont.)

STABILITY PLOTS

2011 Off-Peak load Pre-Project Case

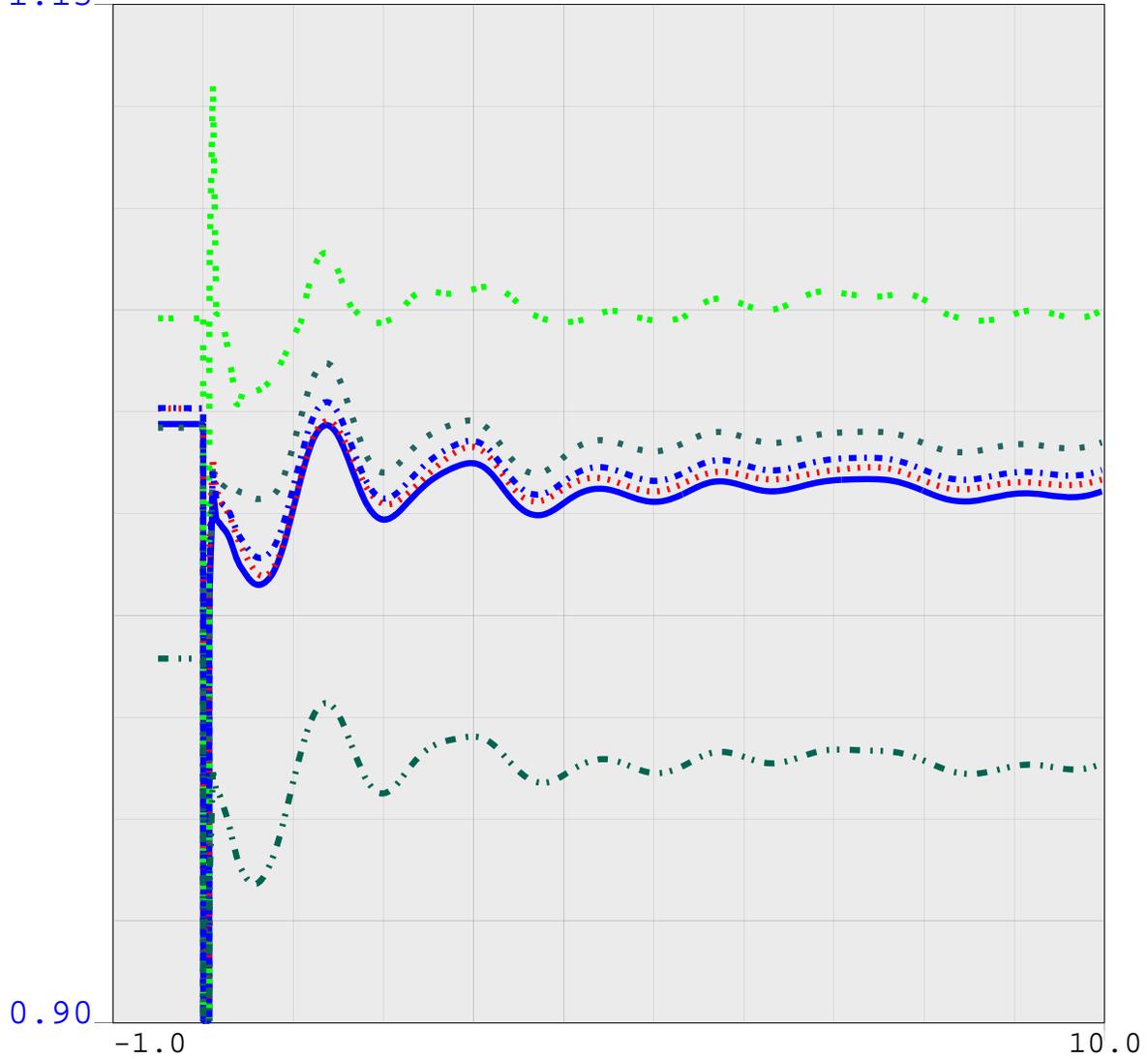
2011 Off-Peak load Post Project Case

2011 Peak load Pre-Project Case

2011 Peak load Post Project Case

BUS_VOLT_MAG

1.15

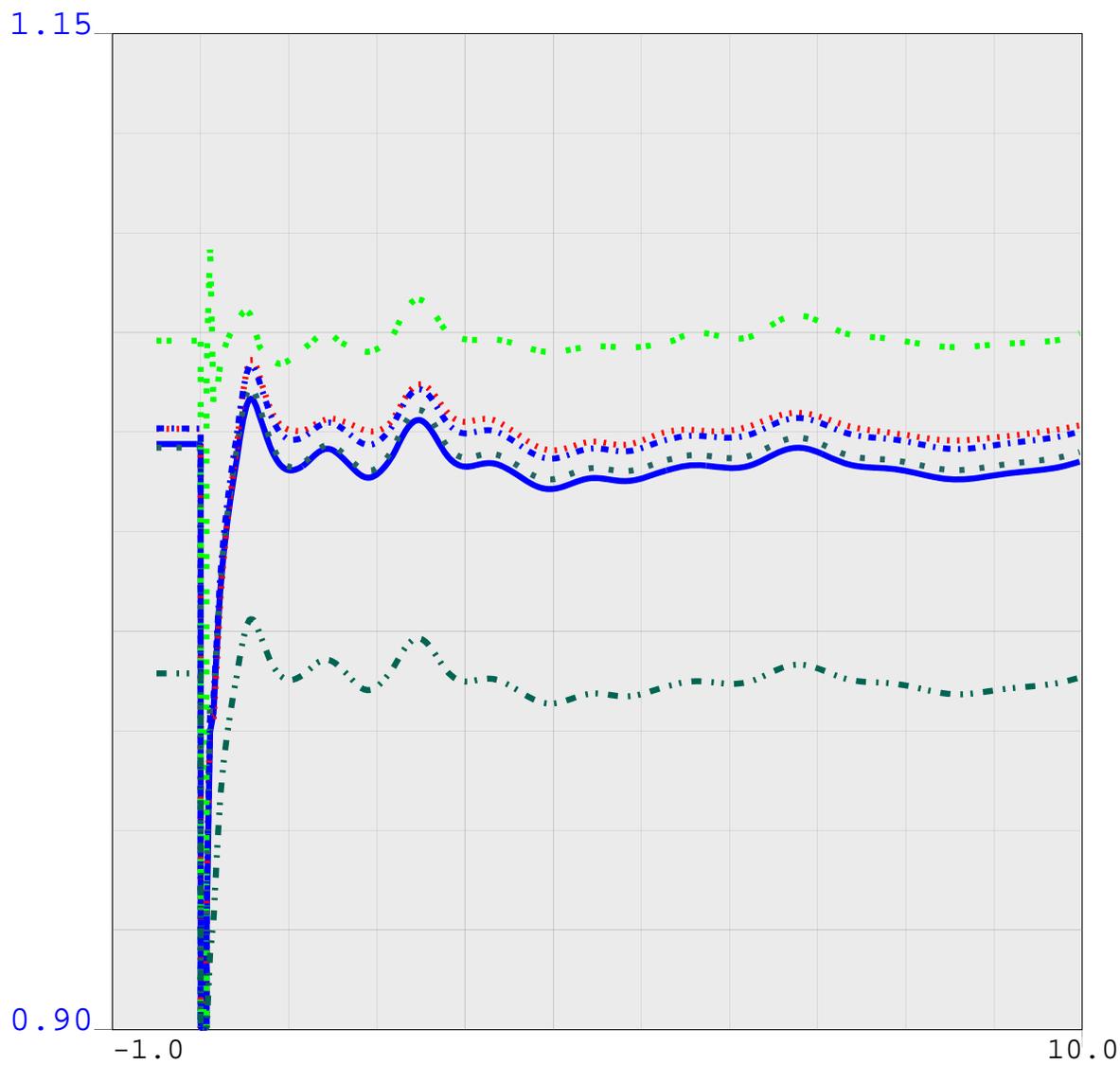


Line Style	Voltage (kV)	Bus Name	Location	Initial Voltage (kV)	Phase 1	Phase 2	Final Voltage (kV)
—	0.9	500 vbus 24236	RANCHVST	500.0	1	1	1.15
....	0.9	500 vbus 24086	LUGO	500.0	1	1	1.15
- - -	0.9	500 vbus 24138	SERRANO	500.0	1	1	1.15
- . - .	0.9	500 vbus 24801	DEVERS	500.0	1	1	1.15
- - -	0.9	500 vbus 24092	MIRALOMA	500.0	1	1	1.15
- . - .	0.9	230 vbus 24237	RANCHVST	230.0	1	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Off-Peak Pre-Project
CASE NAME:ccgt\offpk\1loffpk_pre_ccgt.sav
SCE [LOAD 17468 XCHGE -3831 GEN 14729][AA 1295V 247M -20D 807VA]MW
[S.LUGO 100MW][N.LUGO 706MW][N.SONGS 2019MW][S.SONGS 121MW]
[SYLMAR 638][VIC-LUGO 239][EL-LUGO 925][MHV-LUGO 919][DV IMPORT 2857]MW



BUS_VOLT_MAG



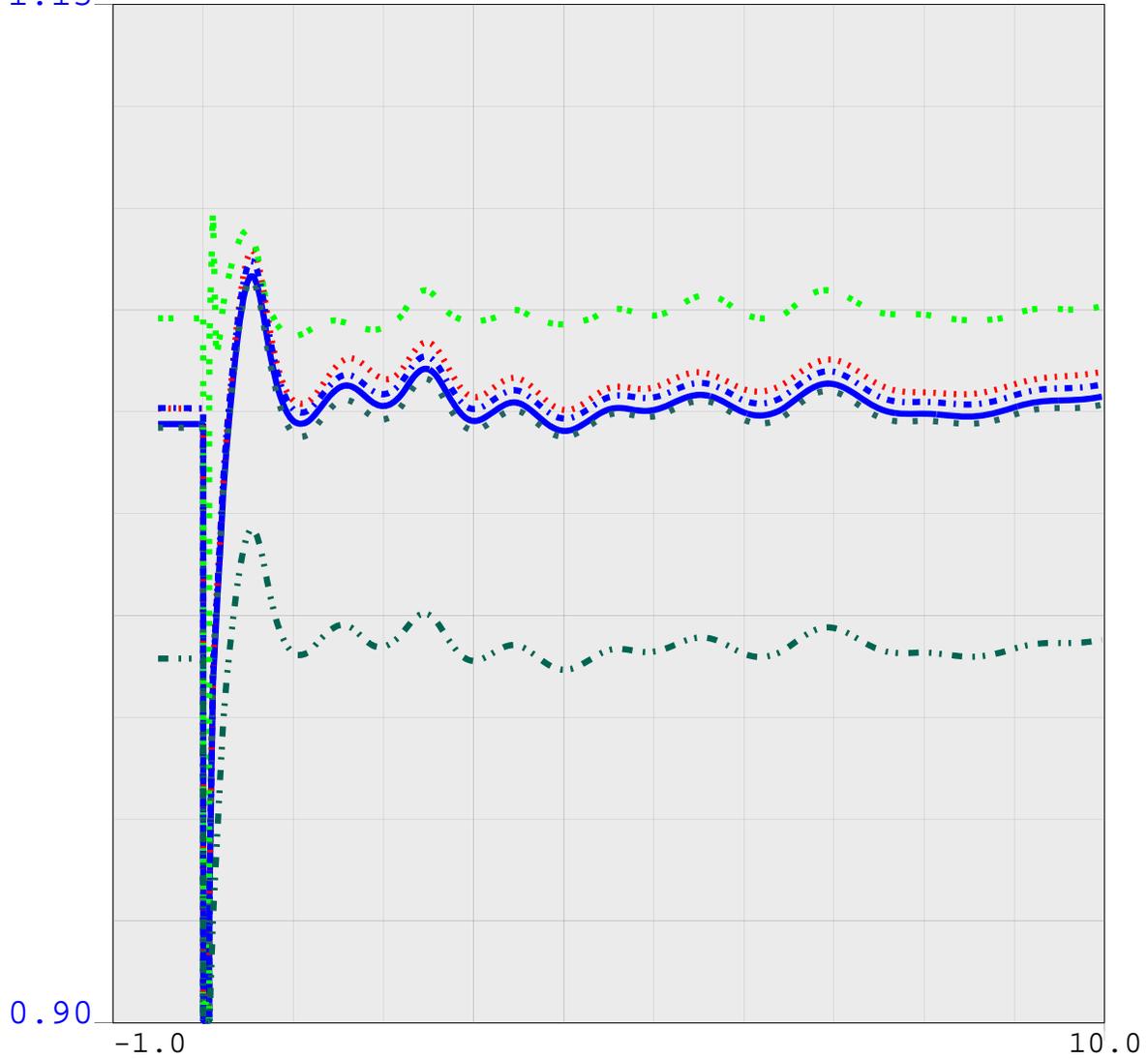
Line Style	Value	Bus ID	Location	Value	Count 1	Count 2	Value
—	0.9	500 vbus 24236	RANCHVST	500.0	1	1	1.15
....	0.9	500 vbus 24086	LUGO	500.0	1	1	1.15
- -	0.9	500 vbus 24138	SERRANO	500.0	1	1	1.15
- . - .	0.9	500 vbus 24801	DEVERS	500.0	1	1	1.15
- - -	0.9	500 vbus 24092	MIRALOMA	500.0	1	1	1.15
- . - .	0.9	230 vbus 24237	RANCHVST	230.0	1	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Off-Peak Pre-Project
CASE NAME:ccgt\offpk\1loffpk_pre_ccgt.sav
SCE [LOAD 17468 XCHGE -3831 GEN 14729][AA 1295V 247M -20D 807VA]MW
[S.LUGO 100MW][N.LUGO 706MW][N.SONGS 2019MW][S.SONGS 121MW]
[SYLMAR 638][VIC-LUGO 239][EL-LUGO 925][MHV-LUGO 919][DV IMPORT 2857]MW



BUS_VOLT_MAG

1.15



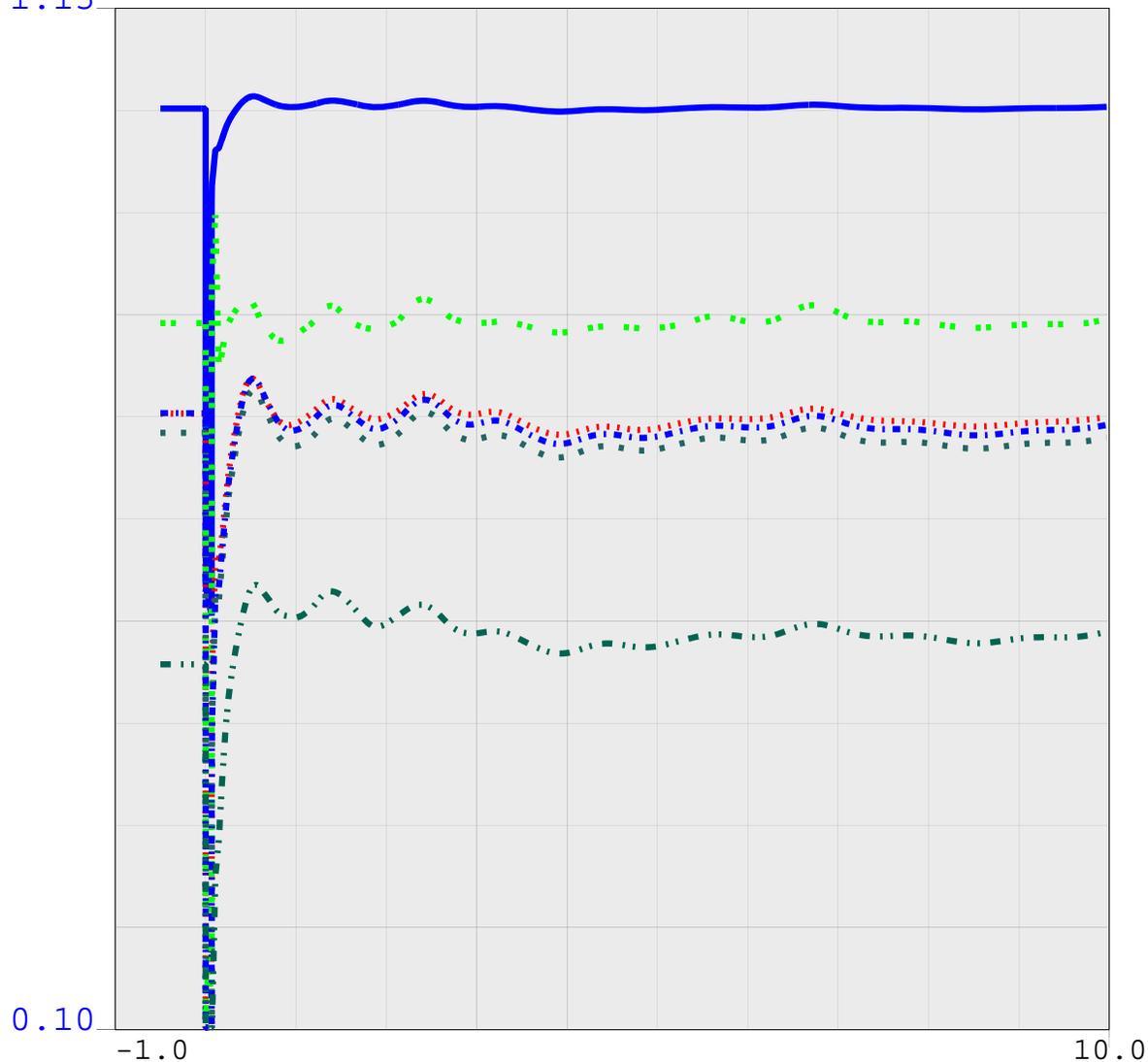
Line Style	Color	Vbus	Location	V	1	1	Value
Solid	Blue	24236	RANCHVST	500.0	1	1	1.15
Dotted	Red	24086	LUGO	500.0	1	1	1.15
Dash-dot	Black	24138	SERRANO	500.0	1	1	1.15
Dashed	Green	24801	DEVERS	500.0	1	1	1.15
Long-dash	Blue	24092	MIRALOMA	500.0	1	1	1.15
Short-dash	Green	24237	RANCHVST	230.0	1	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Off-Peak Pre-Project
CASE NAME:ccgt\offpk\1loffpk_pre_ccgt.sav
SCE [LOAD 17468 XCHGE -3831 GEN 14729][AA 1295V 247M -20D 807VA]MW
[S.LUGO 100MW][N.LUGO 706MW][N.SONGS 2019MW][S.SONGS 121MW]
[SYLMAR 638][VIC-LUGO 239][EL-LUGO 925][MHV-LUGO 919][DV IMPORT 2857]MW



BUS_VOLT_MAG

1.15



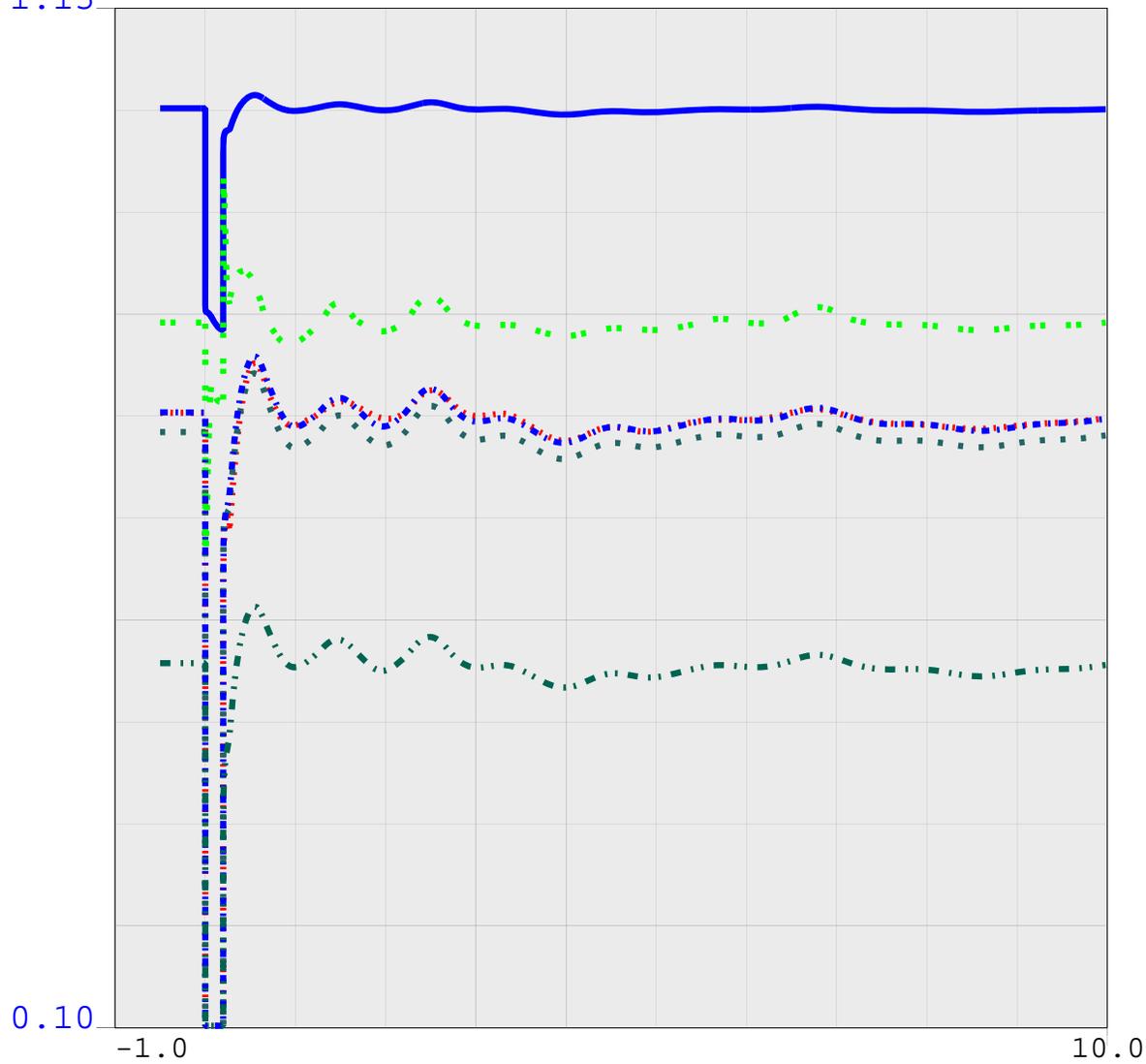
Line Style	Value	Bus	Location	Value	1	1	Value
—	0.1	500 vbus 24236	RANCHVST	500.0	1	1	1.15
....	0.9	500 vbus 24086	LUGO	500.0	1	1	1.15
--	0.9	500 vbus 24138	SERRANO	500.0	1	1	1.15
-. .	0.9	500 vbus 24801	DEVERS	500.0	1	1	1.15
---	0.9	500 vbus 24092	MIRALOMA	500.0	1	1	1.15
...	0.9	230 vbus 24237	RANCHVST	230.0	1	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Off-Peak Pre-Project
CASE NAME:ccgt\offpk\1loffpk_pre_ccgt.sav
SCE [LOAD 17468 XCHGE -3831 GEN 14729][AA 1295V 247M -20D 807VA]MW
[S.LUGO 100MW][N.LUGO 706MW][N.SONGS 2019MW][S.SONGS 121MW]
[SYLMAR 638][VIC-LUGO 239][EL-LUGO 925][MHV-LUGO 919][DV IMPORT 2857]MW



BUS_VOLT_MAG

1.15



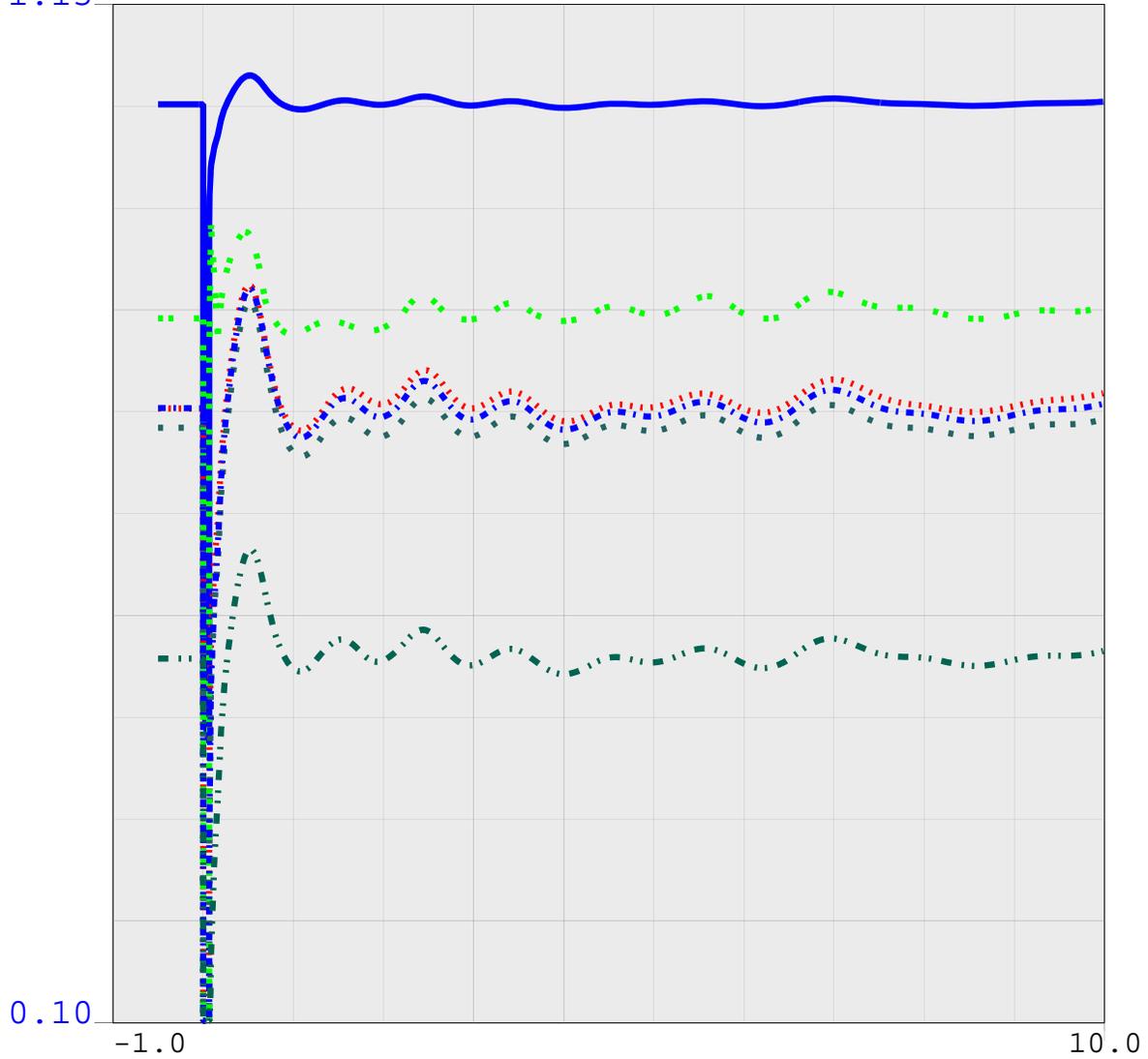
Line Style	Color	Vbus ID	Location	Voltage (kV)	Phase	Mode	Value
—	Blue	500 vbus 24236	RANCHVST	500.0	1	1	1.15
....	Red	500 vbus 24086	LUGO	500.0	1	1	1.15
- - -	Black	500 vbus 24138	SERRANO	500.0	1	1	1.15
- . - .	Green	500 vbus 24801	DEVERS	500.0	1	1	1.15
- - -	Blue	500 vbus 24092	MIRALOMA	500.0	1	1	1.15
- - -	Green	230 vbus 24237	RANCHVST	230.0	1	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Off-Peak Pre-Project
CASE NAME:ccgt\offpk\1loffpk_pre_ccgt.sav
SCE [LOAD 17468 XCHGE -3831 GEN 14729][AA 1295V 247M -20D 807VA]MW
[S.LUGO 100MW][N.LUGO 706MW][N.SONGS 2019MW][S.SONGS 121MW]
[SYLMAR 638][VIC-LUGO 239][EL-LUGO 925][MHV-LUGO 919][DV IMPORT 2857]MW



BUS_VOLT_MAG

1.15



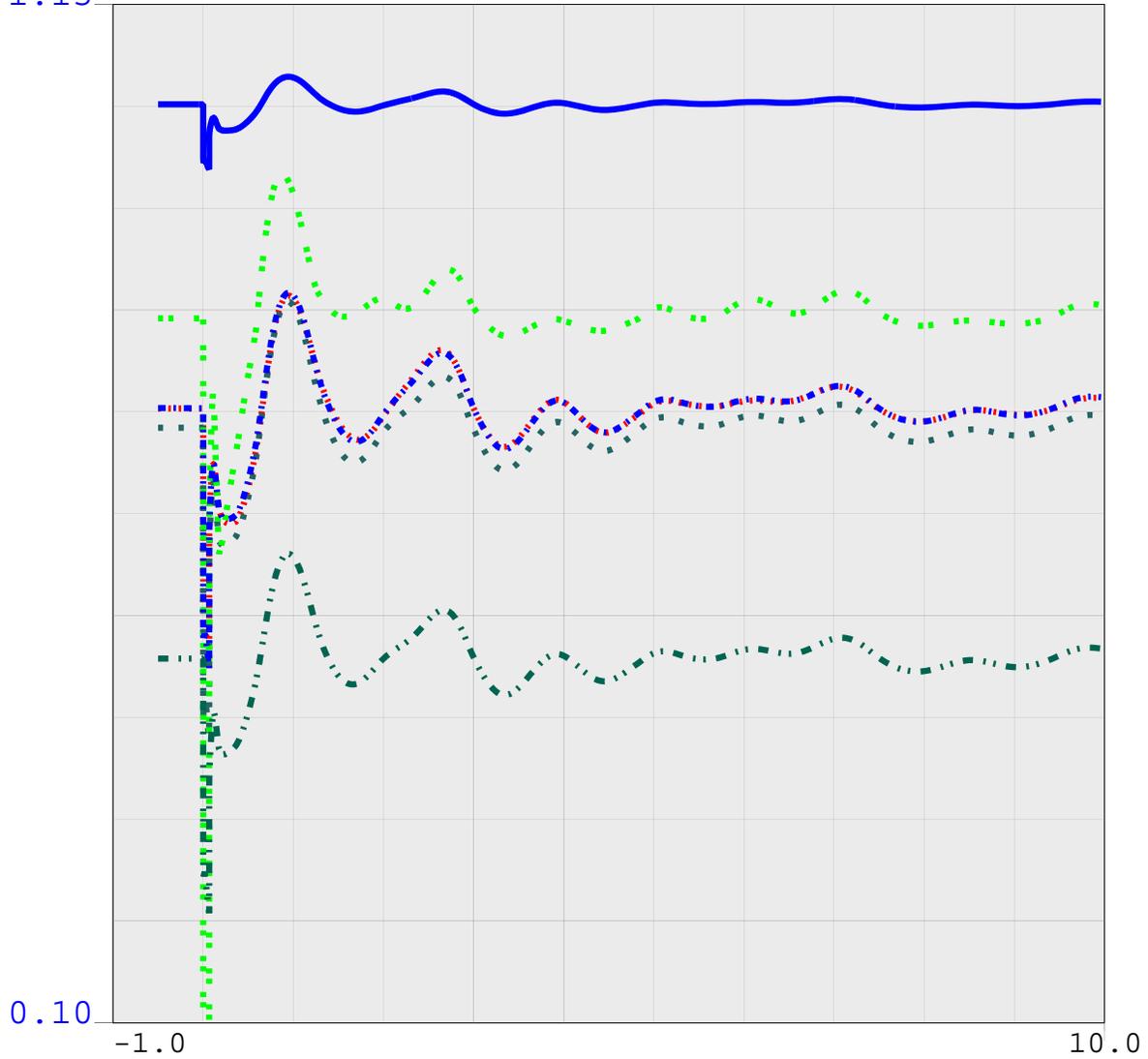
Line Style	Value	Vbus	Location	V	1	1	1.15	
—	0.1	500	vbus 24236	RANCHVST	500.0	1	1	1.15
....	0.9	500	vbus 24086	LUGO	500.0	1	1	1.15
- -	0.9	500	vbus 24138	SERRANO	500.0	1	1	1.15
- . - .	0.9	500	vbus 24801	DEVERS	500.0	1	1	1.15
- - -	0.9	500	vbus 24092	MIRALOMA	500.0	1	1	1.15
- - -	0.9	230	vbus 24237	RANCHVST	230.0	1	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Off-Peak Pre-Project
CASE NAME:ccgt\offpk\1loffpk_pre_ccgt.sav
SCE [LOAD 17468 XCHGE -3831 GEN 14729][AA 1295V 247M -20D 807VA]MW
[S.LUGO 100MW][N.LUGO 706MW][N.SONGS 2019MW][S.SONGS 121MW]
[SYLMAR 638][VIC-LUGO 239][EL-LUGO 925][MHV-LUGO 919][DV IMPORT 2857]MW



BUS_VOLT_MAG

1.15



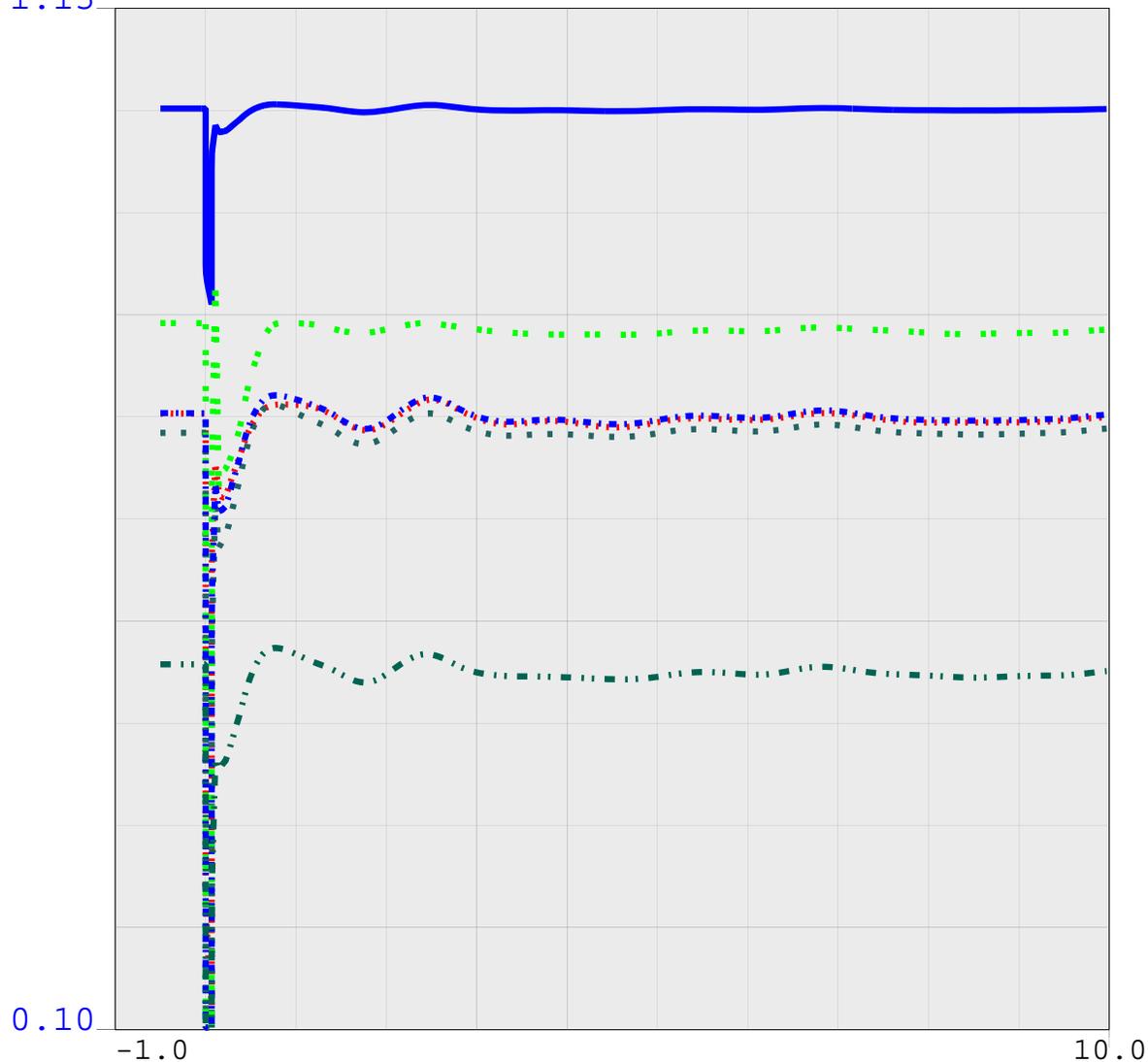
Line Style	Value	Bus ID	Location	Voltage (kV)	Phase	Phase	Time (sec)
—	0.1	500 vbus 24236	RANCHVST	500.0	1	1	1.15
....	0.9	500 vbus 24086	LUGO	500.0	1	1	1.15
--	0.9	500 vbus 24138	SERRANO	500.0	1	1	1.15
-.-.	0.9	500 vbus 24801	DEVERS	500.0	1	1	1.15
---	0.9	500 vbus 24092	MIRALOMA	500.0	1	1	1.15
- - -	0.9	230 vbus 24237	RANCHVST	230.0	1	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Off-Peak Pre-Project
CASE NAME:ccgt\offpk\1loffpk_pre_ccgt.sav
SCE [LOAD 17468 XCHGE -3831 GEN 14729][AA 1295V 247M -20D 807VA]MW
[S.LUGO 100MW][N.LUGO 706MW][N.SONGS 2019MW][S.SONGS 121MW]
[SYLMAR 638][VIC-LUGO 239][EL-LUGO 925][MHV-LUGO 919][DV IMPORT 2857]MW



BUS_VOLT_MAG

1.15

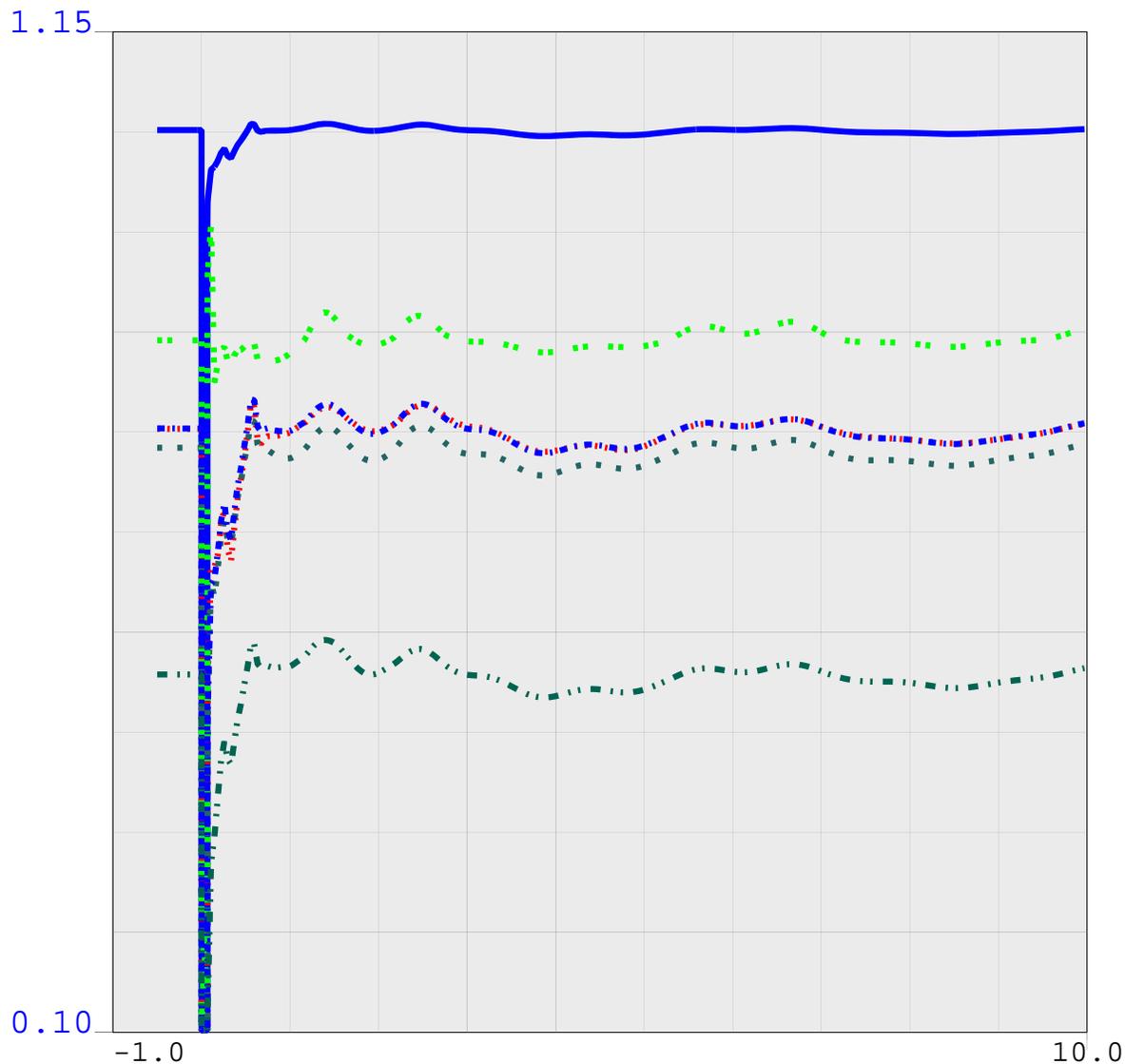


Line Style	Value	Bus ID	Location	Voltage	Phase	Phase	Value
—	0.1	500 vbus 24236	RANCHVST	500.0	1	1	1.15
....	0.9	500 vbus 24086	LUGO	500.0	1	1	1.15
- -	0.9	500 vbus 24138	SERRANO	500.0	1	1	1.15
- . - .	0.9	500 vbus 24801	DEVERS	500.0	1	1	1.15
- - -	0.9	500 vbus 24092	MIRALOMA	500.0	1	1	1.15
- - -	0.9	230 vbus 24237	RANCHVST	230.0	1	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Off-Peak Pre-Project
CASE NAME:ccgt\offpk\1loffpk_pre_ccgt.sav
SCE [LOAD 17468 XCHGE -3831 GEN 14729][AA 1295V 247M -20D 807VA]MW
[S.LUGO 100MW][N.LUGO 706MW][N.SONGS 2019MW][S.SONGS 121MW]
[SYLMAR 638][VIC-LUGO 239][EL-LUGO 925][MHV-LUGO 919][DV IMPORT 2857]MW



BUS_VOLT_MAG



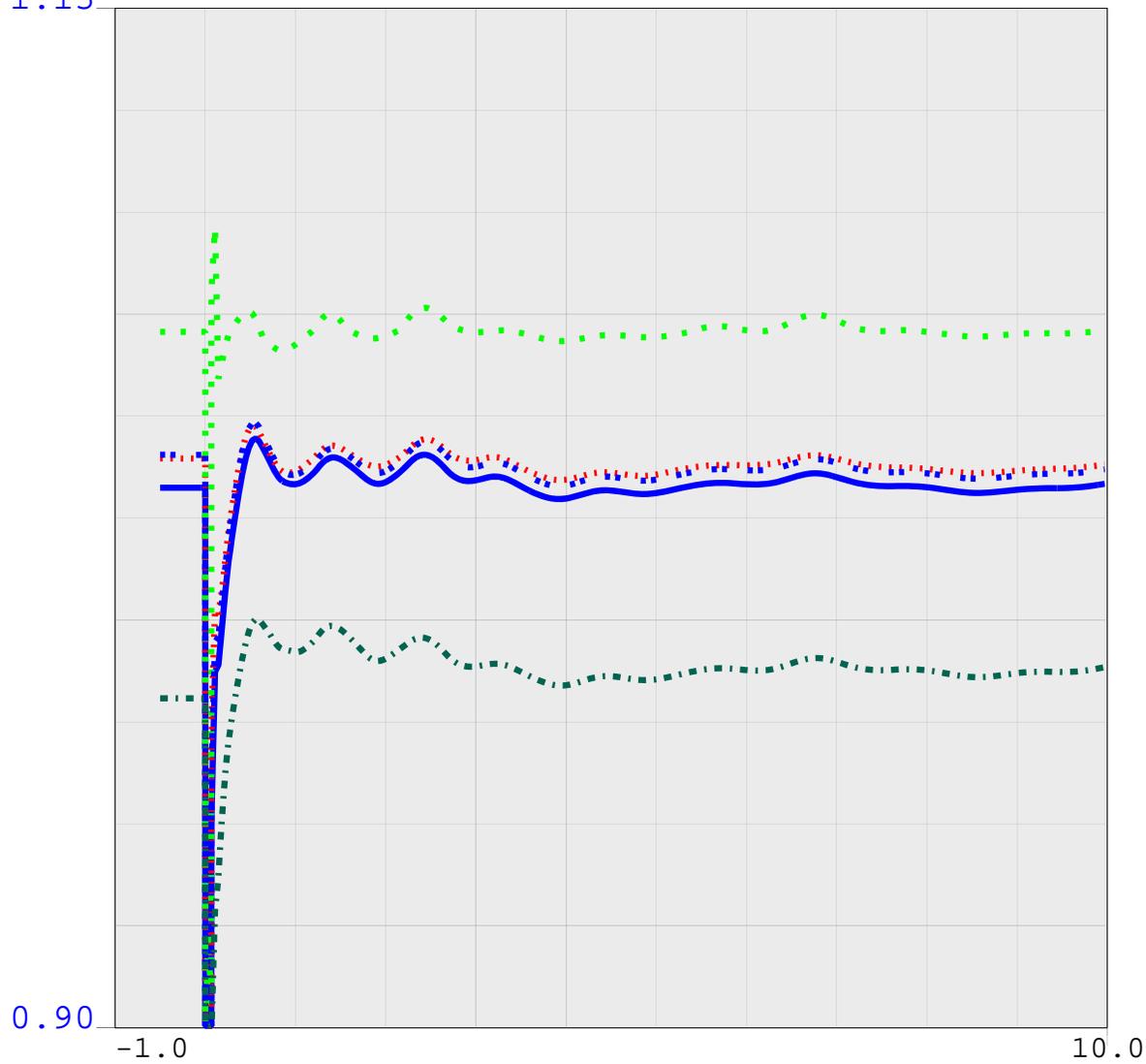
Line Style	Value	Bus ID	Location	Voltage	Phase	Phase	Value	
—	0.1	500	vbus 24236	RANCHVST	500.0	1	1	1.15
....	0.9	500	vbus 24086	LUGO	500.0	1	1	1.15
--	0.9	500	vbus 24138	SERRANO	500.0	1	1	1.15
-.-.	0.9	500	vbus 24801	DEVERS	500.0	1	1	1.15
-.-.-	0.9	500	vbus 24092	MIRALOMA	500.0	1	1	1.15
-.-.-	0.9	230	vbus 24237	RANCHVST	230.0	1	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Off-Peak Pre-Project
CASE NAME:ccgt\offpk\1loffpk_pre_ccgt.sav
SCE [LOAD 17468 XCHGE -3831 GEN 14729][AA 1295V 247M -20D 807VA]MW
[S.LUGO 100MW][N.LUGO 706MW][N.SONGS 2019MW][S.SONGS 121MW]
[SYLMAR 638][VIC-LUGO 239][EL-LUGO 925][MHV-LUGO 919][DV IMPORT 2857]MW



BUS_VOLT_MAG

1.15



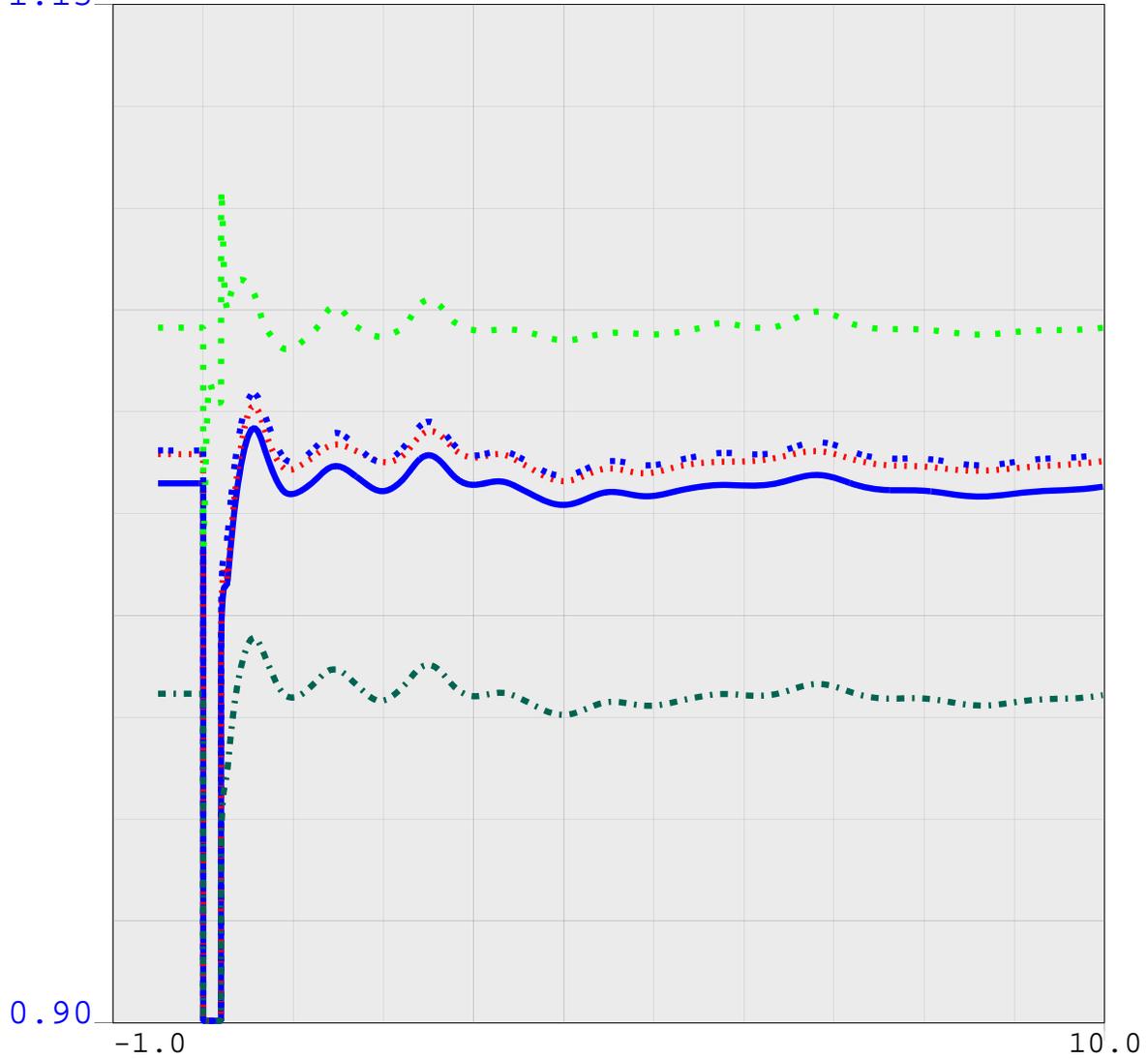
Line Style	0.9	500	vbus	Location	500.0	1	1	1.15
—	0.9	500	vbus 24236	RANCHVST	500.0	1	1	1.15
....	0.9	500	vbus 24086	LUGO	500.0	1	1	1.15
- - -	0.9	500	vbus 24801	DEVERS	500.0	1	1	1.15
- . .	0.9	500	vbus 24092	MIRALOMA	500.0	1	1	1.15
- - -	0.9	230	vbus 24237	RANCHVST	230.0	1	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Off-Peak Post-Project
CASE NAME:ccgt\offpk\1loffpk_pre_ccgt.sav
SCE [LOAD 17484 XCHGE -3831 GEN 14764][AA 1456V 188M -31D 807VA]MW
[S.LUGO -339MW][N.LUGO 705MW][N.SONGS 2037MW][S.SONGS 103MW]
[SYLMAR 875][VIC-LUGO 44][EL-LUGO 911][MHV-LUGO 906][DV IMPORT 2836]MW



BUS_VOLT_MAG

1.15



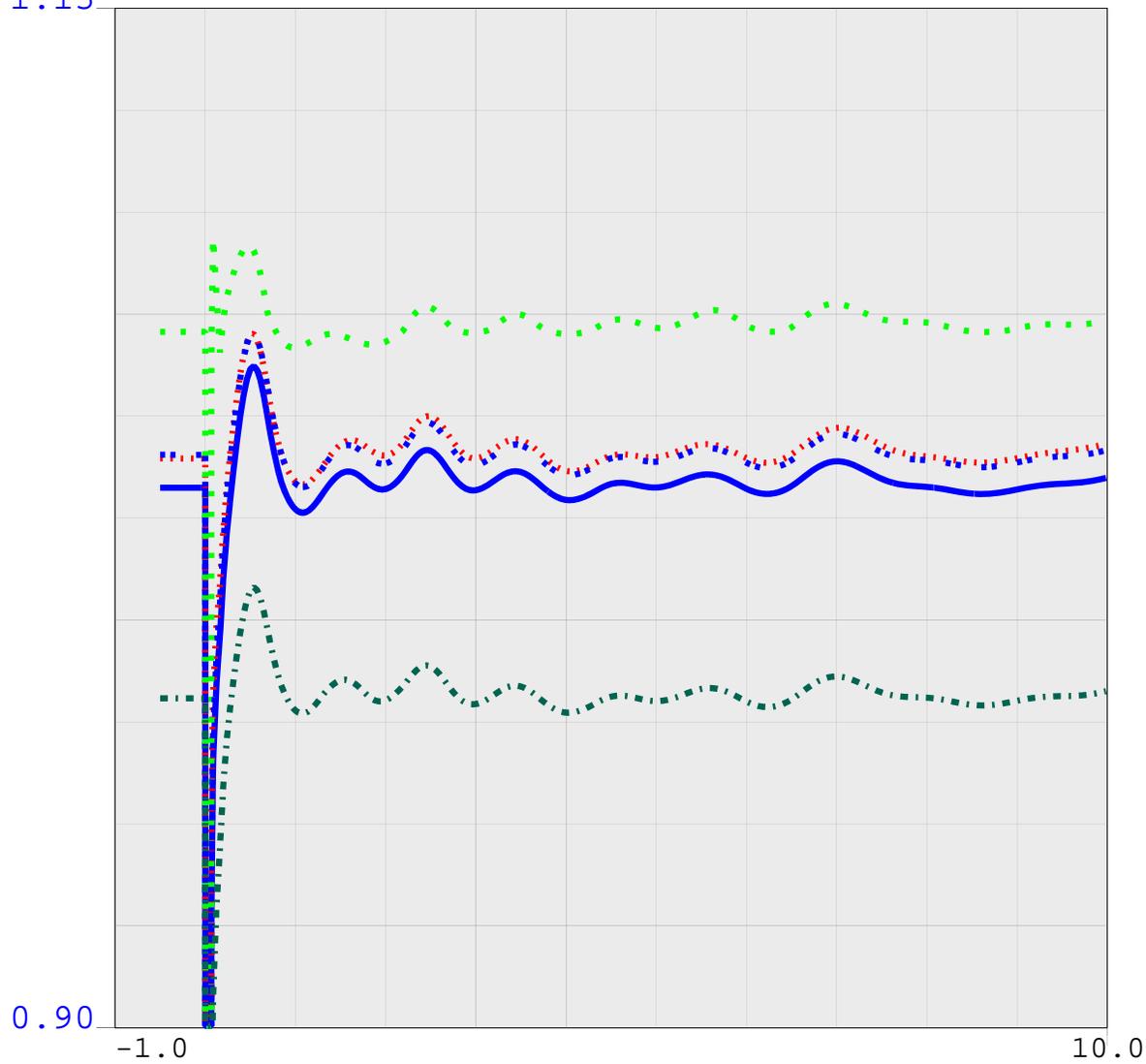
Line Style	Color	Voltage	Bus ID	Location	V1	V2	V3
—	Blue	0.9	500	vbus 24236	RANCHVST	500.0	1 1 1.15
....	Red	0.9	500	vbus 24086	LUGO	500.0	1 1 1.15
- - -	Green	0.9	500	vbus 24801	DEVERS	500.0	1 1 1.15
- . -	Blue	0.9	500	vbus 24092	MIRALOMA	500.0	1 1 1.15
- - -	Green	0.9	230	vbus 24237	RANCHVST	230.0	1 1 1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Off-Peak Post-Project
CASE NAME:ccgt\offpk\1loffpk_pre_ccgt.sav
SCE [LOAD 17484 XCHGE -3831 GEN 14764][AA 1456V 188M -31D 807VA]MW
[S.LUGO -339MW][N.LUGO 705MW][N.SONGS 2037MW][S.SONGS 103MW]
[SYLMAR 875][VIC-LUGO 44][EL-LUGO 911][MHV-LUGO 906][DV IMPORT 2836]MW



BUS_VOLT_MAG

1.15



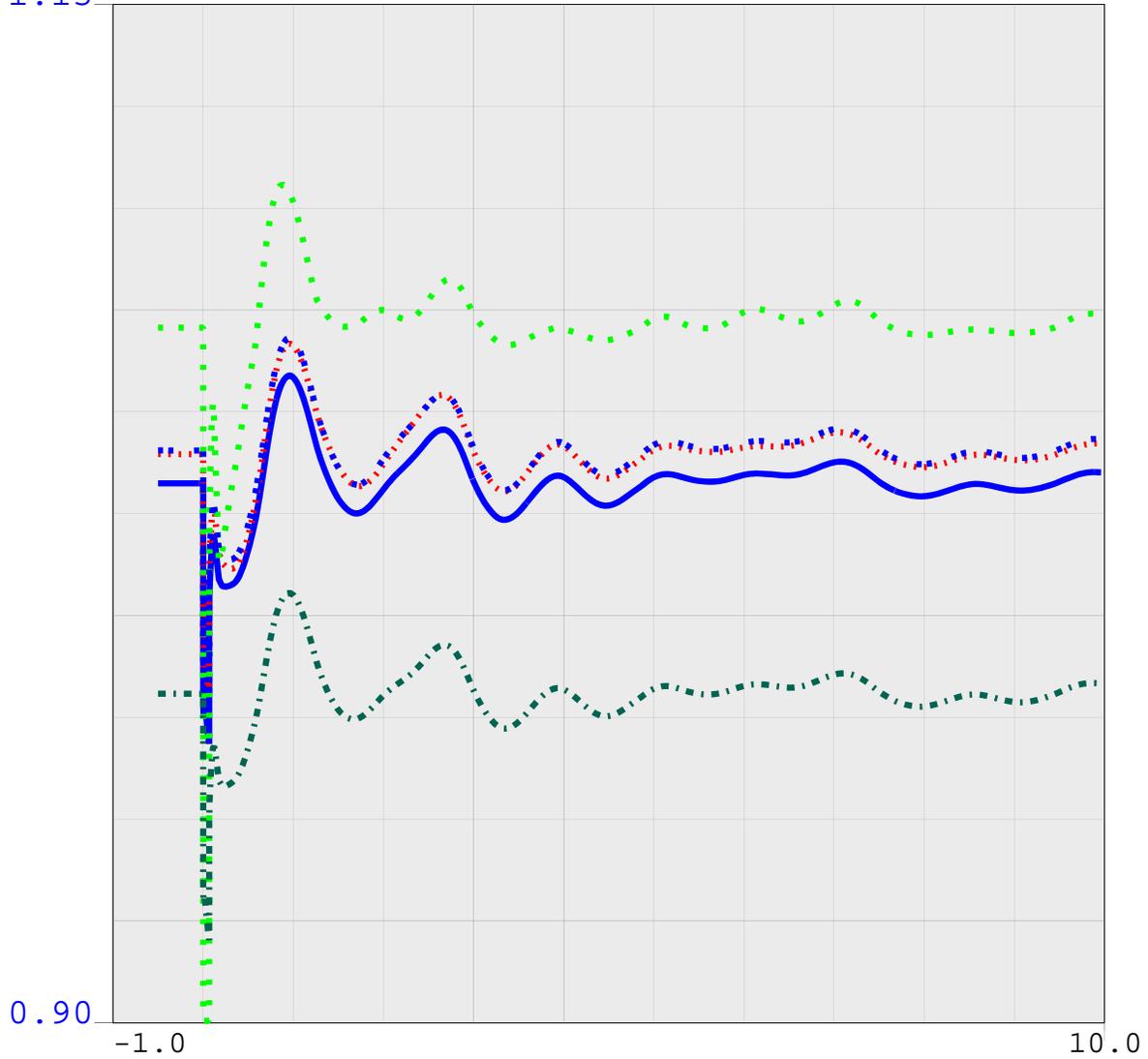
Line Style	Value	Bus ID	Bus Name	Voltage (kV)	Phase	Phase	Value	
—	0.9	500	vbus 24236	RANCHVST	500.0	1	1	1.15
....	0.9	500	vbus 24086	LUGO	500.0	1	1	1.15
- - -	0.9	500	vbus 24801	DEVERS	500.0	1	1	1.15
- - .	0.9	500	vbus 24092	MIRALOMA	500.0	1	1	1.15
- - -	0.9	230	vbus 24237	RANCHVST	230.0	1	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Off-Peak Post-Project
CASE NAME:ccgt\offpk\1loffpk_pre_ccgt.sav
SCE [LOAD 17484 XCHGE -3831 GEN 14764][AA 1456V 188M -31D 807VA]MW
[S.LUGO -339MW][N.LUGO 705MW][N.SONGS 2037MW][S.SONGS 103MW]
[SYLMAR 875][VIC-LUGO 44][EL-LUGO 911][MHV-LUGO 906][DV IMPORT 2836]MW



BUS_VOLT_MAG

1.15



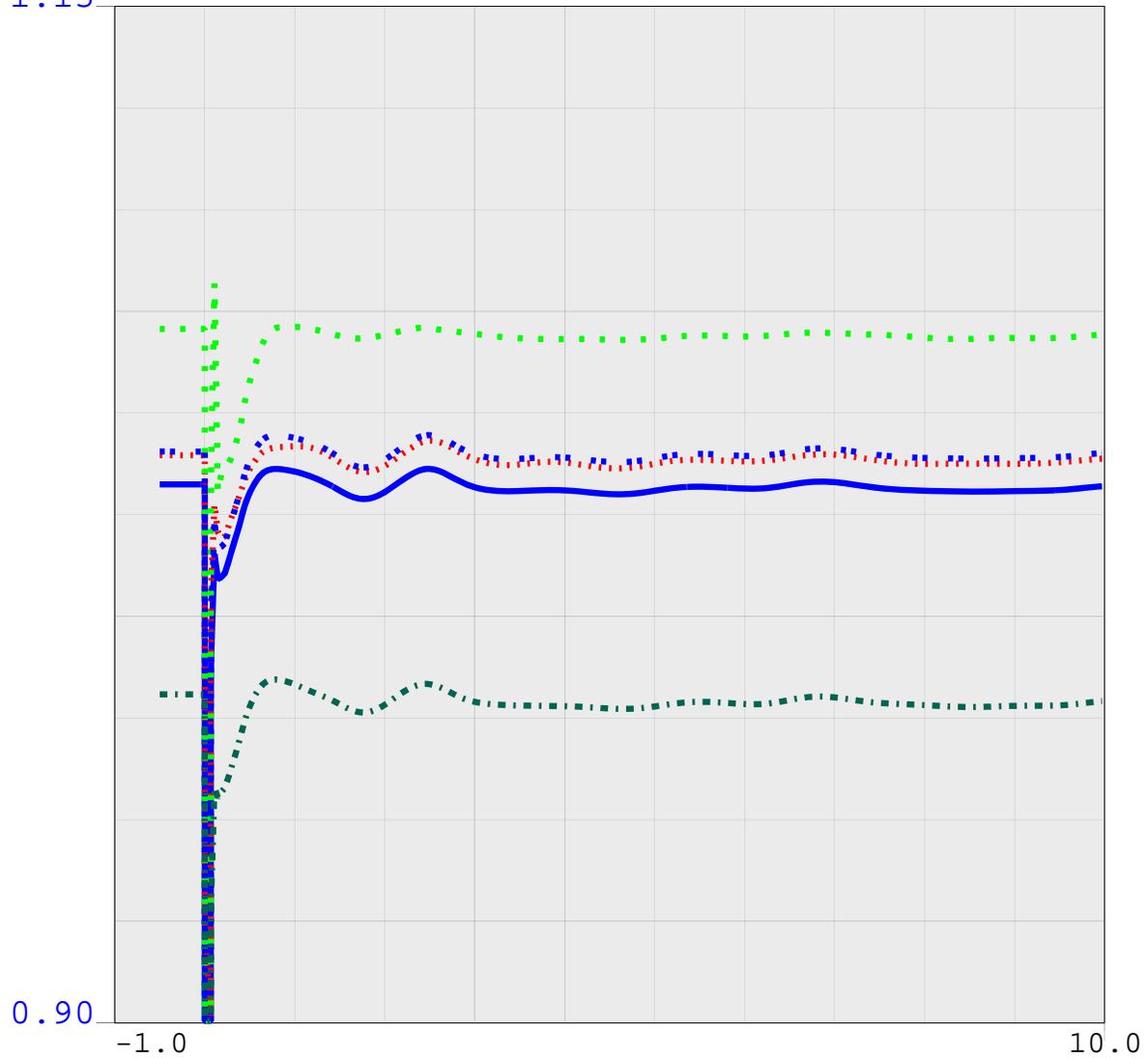
Line Style	Value	Bus	Location	Value	Phase	Phase	Value
—	0.9	500	vbus 24236	RANCHVST	500.0	1	1.15
....	0.9	500	vbus 24086	LUGO	500.0	1	1.15
- - -	0.9	500	vbus 24801	DEVERS	500.0	1	1.15
- . -	0.9	500	vbus 24092	MIRALOMA	500.0	1	1.15
- . .	0.9	230	vbus 24237	RANCHVST	230.0	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Off-Peak Post-Project
CASE NAME:ccgt\offpk\1loffpk_pre_ccgt.sav
SCE [LOAD 17484 XCHGE -3831 GEN 14764][AA 1456V 188M -31D 807VA]MW
[S.LUGO -339MW][N.LUGO 705MW][N.SONGS 2037MW][S.SONGS 103MW]
[SYLMAR 875][VIC-LUGO 44][EL-LUGO 911][MHV-LUGO 906][DV IMPORT 2836]MW



BUS_VOLT_MAG

1.15



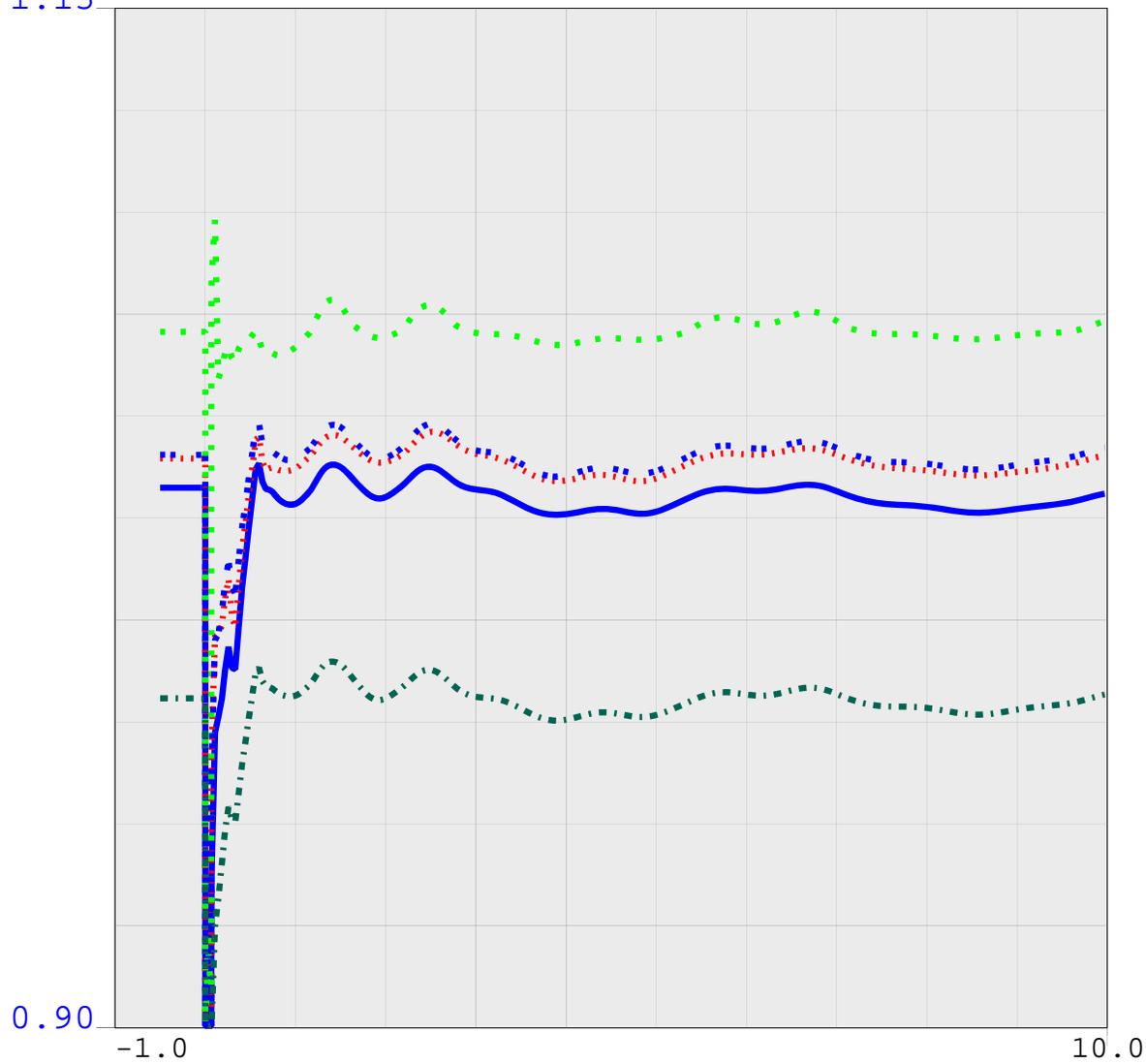
Line Style	0.9	500	vbus	Location	500.0	1	1	1.15
—	0.9	500	vbus 24236	RANCHVST	500.0	1	1	1.15
....	0.9	500	vbus 24086	LUGO	500.0	1	1	1.15
- - -	0.9	500	vbus 24801	DEVERS	500.0	1	1	1.15
- . .	0.9	500	vbus 24092	MIRALOMA	500.0	1	1	1.15
- . . .	0.9	230	vbus 24237	RANCHVST	230.0	1	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Off-Peak Post-Project
CASE NAME:ccgt\offpk\1loffpk_pre_ccgt.sav
SCE [LOAD 17484 XCHGE -3831 GEN 14764][AA 1456V 188M -31D 807VA]MW
[S.LUGO -339MW][N.LUGO 705MW][N.SONGS 2037MW][S.SONGS 103MW]
[SYLMAR 875][VIC-LUGO 44][EL-LUGO 911][MHV-LUGO 906][DV IMPORT 2836]MW



BUS_VOLT_MAG

1.15



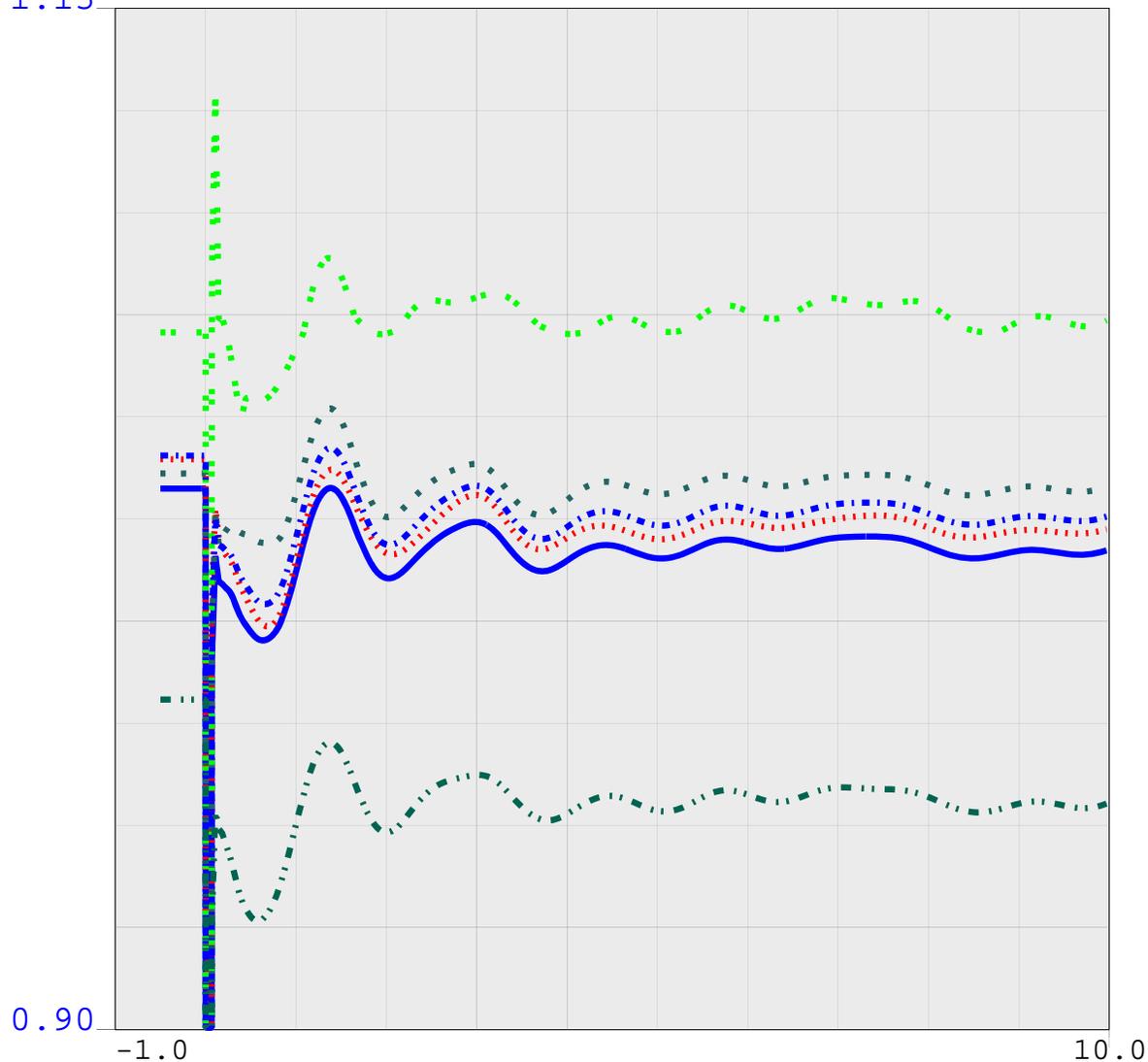
Time(sec)								
—	0.9	500	vbus 24236	RANCHVST	500.0	1	1	1.15
....	0.9	500	vbus 24086	LUGO	500.0	1	1	1.15
- - -	0.9	500	vbus 24801	DEVERS	500.0	1	1	1.15
- . .	0.9	500	vbus 24092	MIRALOMA	500.0	1	1	1.15
- - -	0.9	230	vbus 24237	RANCHVST	230.0	1	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Off-Peak Post-Project
CASE NAME:ccgt\offpk\1loffpk_pre_ccgt.sav
SCE [LOAD 17484 XCHGE -3831 GEN 14764][AA 1456V 188M -31D 807VA]MW
[S.LUGO -339MW][N.LUGO 705MW][N.SONGS 2037MW][S.SONGS 103MW]
[SYLMAR 875][VIC-LUGO 44][EL-LUGO 911][MHV-LUGO 906][DV IMPORT 2836]MW



BUS_VOLT_MAG

1.15



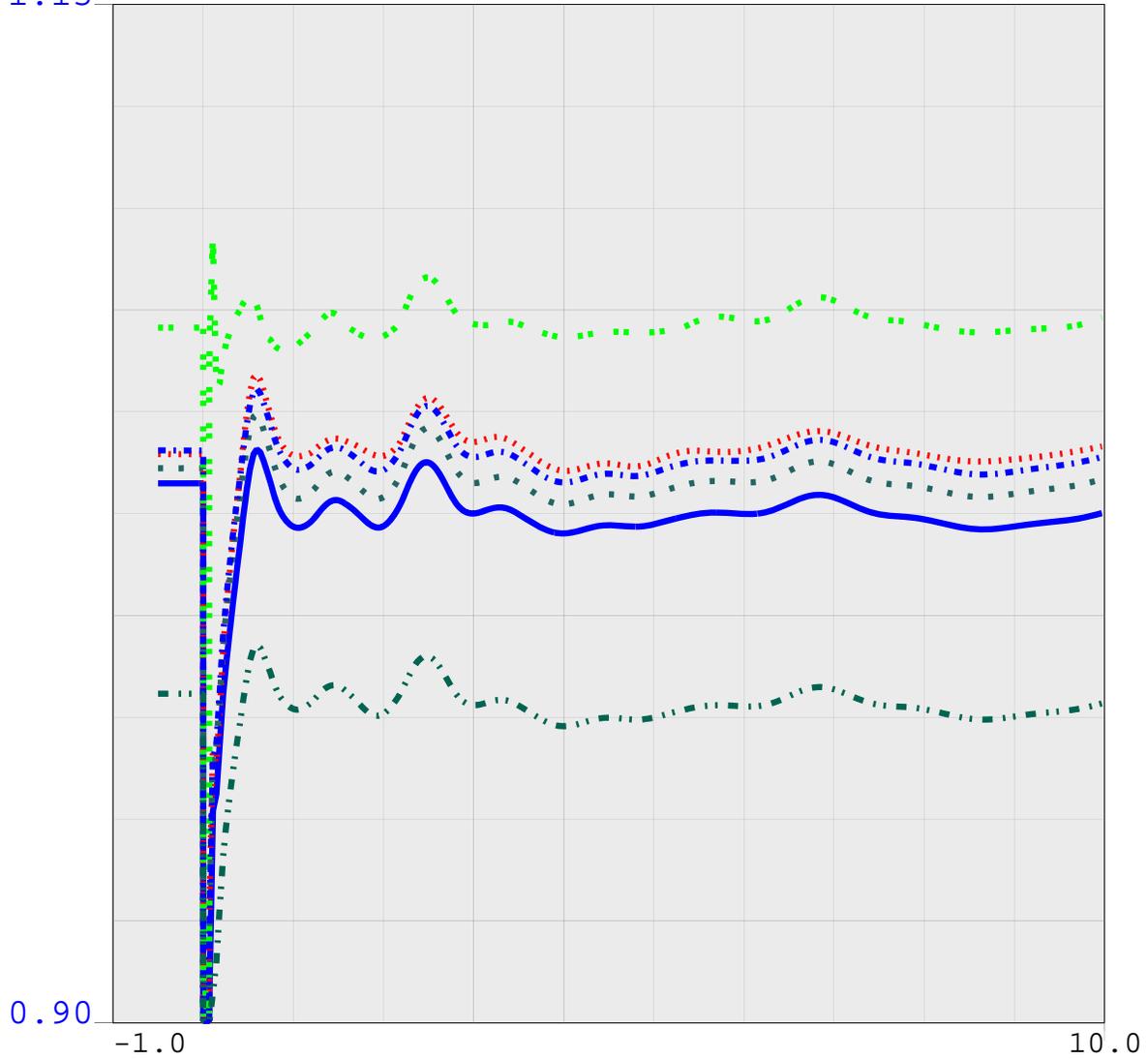
Line Style	Color	Vbus	Bus Name	V	1	1	1.15	
—	0.9	500	vbus 24236	RANCHVST	500.0	1	1	1.15
....	0.9	500	vbus 24086	LUGO	500.0	1	1	1.15
- - -	0.9	500	vbus 24138	SERRANO	500.0	1	1	1.15
- . - .	0.9	500	vbus 24801	DEVERS	500.0	1	1	1.15
- - -	0.9	500	vbus 24092	MIRALOMA	500.0	1	1	1.15
- . - .	0.9	230	vbus 24237	RANCHVST	230.0	1	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Off-Peak Post-Project
CASE NAME:ccgt\offpk\1loffpk_pre_ccgt.sav
SCE [LOAD 17484 XCHGE -3831 GEN 14764][AA 1456V 188M -31D 807VA]MW
[S.LUGO -339MW][N.LUGO 705MW][N.SONGS 2037MW][S.SONGS 103MW]
[SYLMAR 875][VIC-LUGO 44][EL-LUGO 911][MHV-LUGO 906][DV IMPORT 2836]MW



BUS_VOLT_MAG

1.15



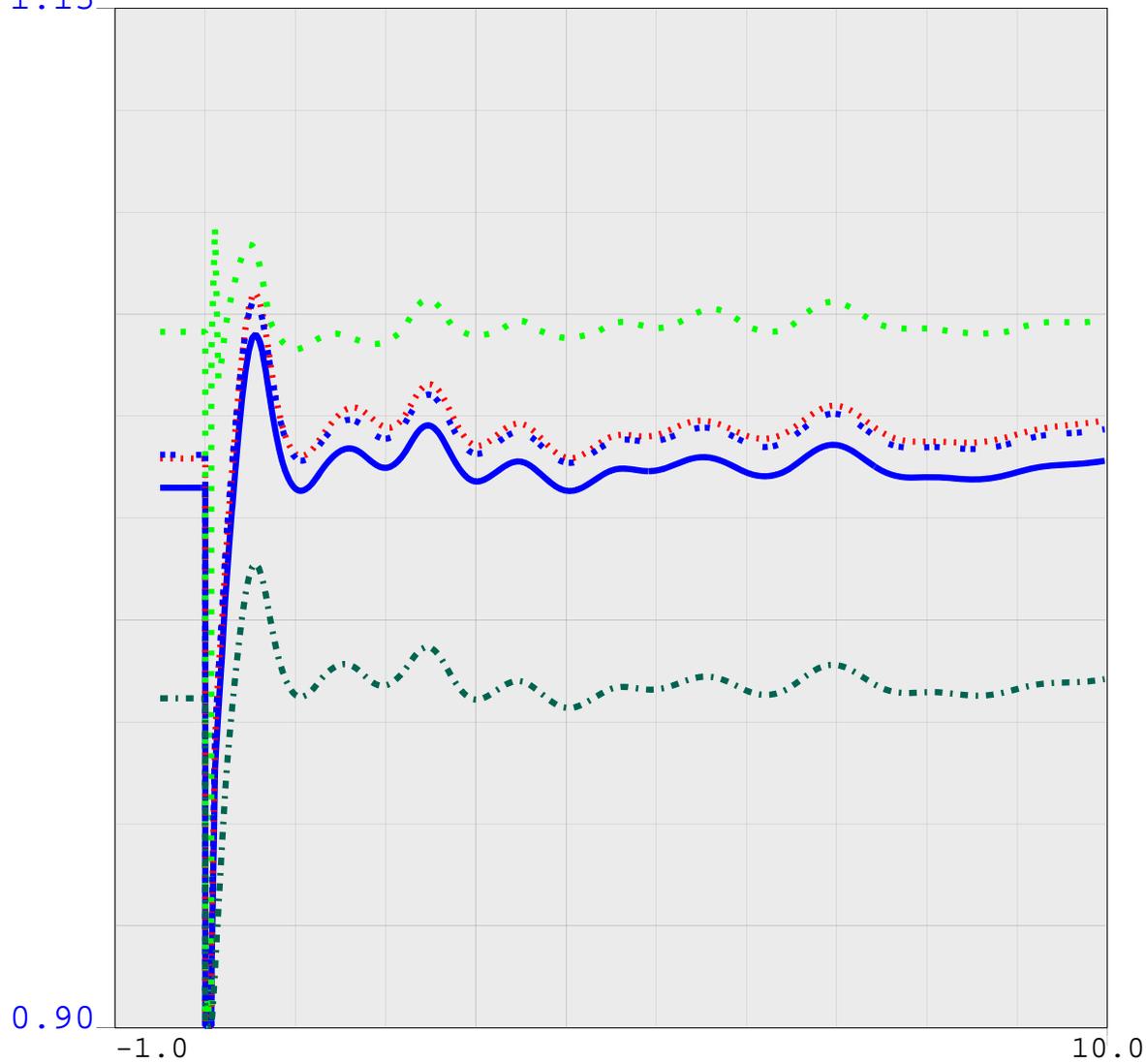
Line Style	Value	Bus	Location	Value	Phase	Phase	Value
—	0.9	500	vbus 24236	RANCHVST	500.0	1	1.15
....	0.9	500	vbus 24086	LUGO	500.0	1	1.15
- -	0.9	500	vbus 24138	SERRANO	500.0	1	1.15
- . - .	0.9	500	vbus 24801	DEVERS	500.0	1	1.15
- - -	0.9	500	vbus 24092	MIRALOMA	500.0	1	1.15
- . - .	0.9	230	vbus 24237	RANCHVST	230.0	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Off-Peak Post-Project
CASE NAME:ccgt\offpk\1loffpk_pre_ccgt.sav
SCE [LOAD 17484 XCHGE -3831 GEN 14764][AA 1456V 188M -31D 807VA]MW
[S.LUGO -339MW][N.LUGO 705MW][N.SONGS 2037MW][S.SONGS 103MW]
[SYLMAR 875][VIC-LUGO 44][EL-LUGO 911][MHV-LUGO 906][DV IMPORT 2836]MW



BUS_VOLT_MAG

1.15

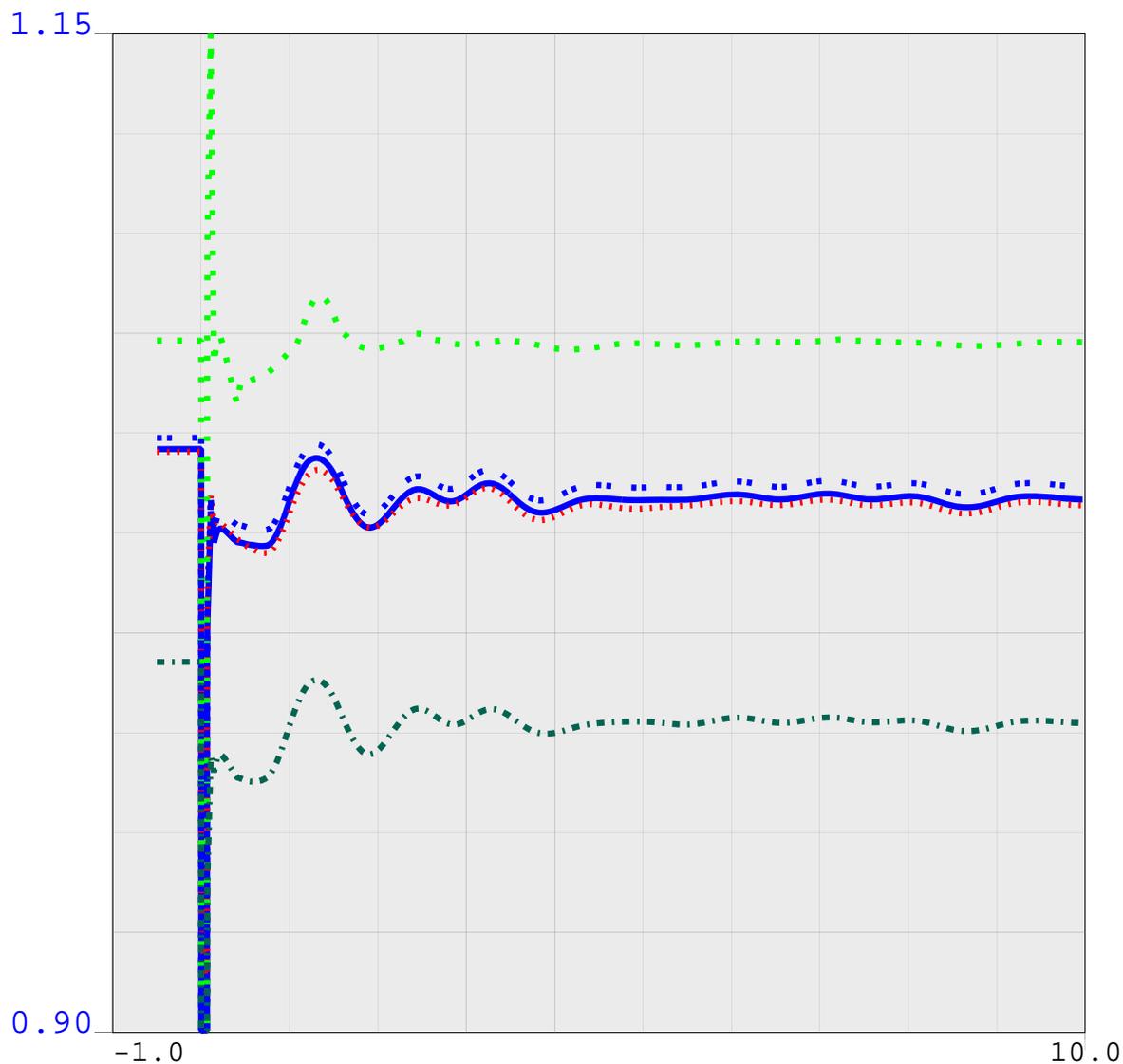


Line Style	Color	Vbus ID	Location	V	1	2	3
—	Blue	500 vbus 24236	RANCHOVST	500.0	1	1	1.15
....	Red	500 vbus 24086	LUGO	500.0	1	1	1.15
- - -	Green	500 vbus 24801	DEVERS	500.0	1	1	1.15
- - -	Blue	500 vbus 24092	MIRALOMA	500.0	1	1	1.15
- - -	Dark Green	230 vbus 24237	RANCHOVST	230.0	1	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Off-Peak Post-Project
CASE NAME:ccgt\offpk\1loffpk_pre_ccgt.sav
SCE [LOAD 17484 XCHGE -3831 GEN 14764][AA 1456V 188M -31D 807VA]MW
[S.LUGO -339MW][N.LUGO 705MW][N.SONGS 2037MW][S.SONGS 103MW]
[SYLMAR 875][VIC-LUGO 44][EL-LUGO 911][MHV-LUGO 906][DV IMPORT 2836]MW



BUS_VOLT_MAG



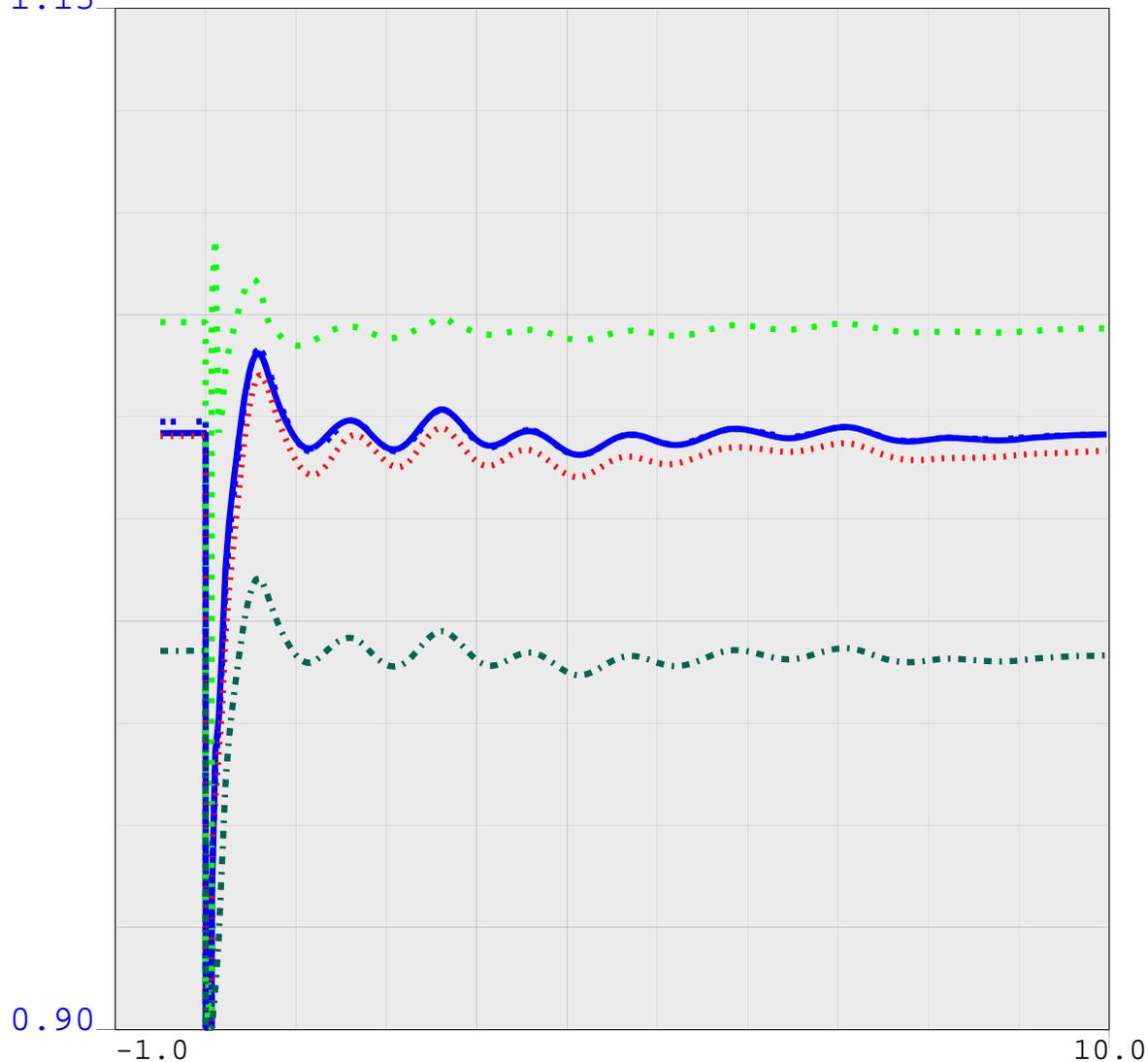
Line Style	Color	V	Bus	Location	V	1	2	Peak
—	0.9	500	vbus 24236	RANCHVST	500.0	1	1	1.15
....	0.9	500	vbus 24086	LUGO	500.0	1	1	1.15
- - -	0.9	500	vbus 24801	DEVERS	500.0	1	1	1.15
- . -	0.9	500	vbus 24092	MIRALOMA	500.0	1	1	1.15
- - -	0.9	230	vbus 24237	RANCHVST	230.0	1	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Peak Pre-Project
CASE NAME:ccgt\pk\11pk_pre_ccgt.sav
SCE [LOAD 27366 XCHGE -7591 GEN 20874][AA 1465V 1585M 787D 1507VA]MW
[S.LUGO 2411MW][N.LUGO 563MW][N.SONGS 1577MW][S.SONGS 573MW]
[SYLMAR -329][VIC-LUGO 1072][EL-LUGO 891][MHV-LUGO 877][DV IMPORT 3095]MW



BUS_VOLT_MAG

1.15



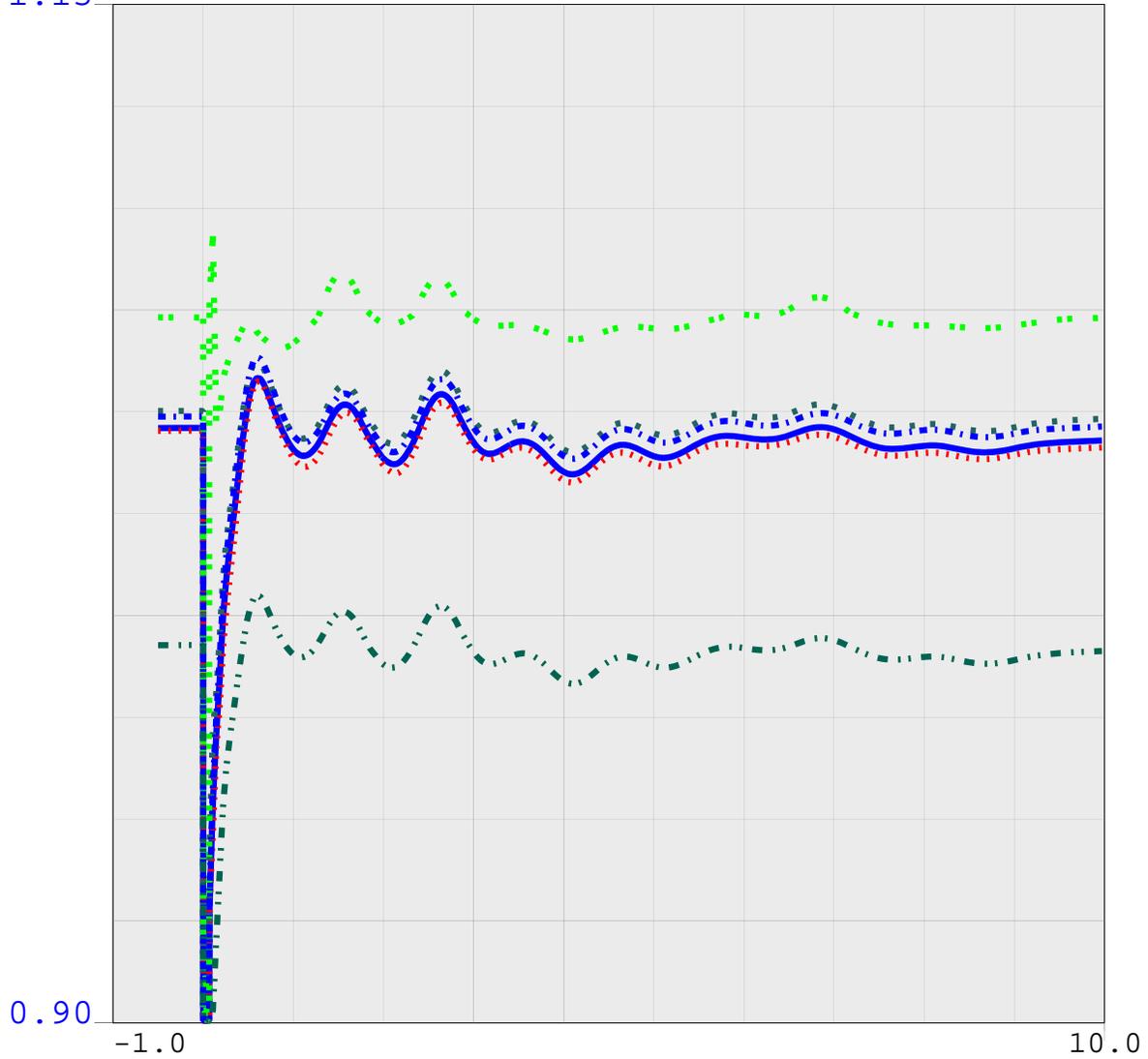
Line Style	Color	V	Bus	Location	V	1	1	Value	
—	Blue	0.9	500	vbus 24236	RANCHVST	500.0	1	1	1.15
....	Red	0.9	500	vbus 24086	LUGO	500.0	1	1	1.15
- - -	Green	0.9	500	vbus 24801	DEVERS	500.0	1	1	1.15
- . -	Blue	0.9	500	vbus 24092	MIRALOMA	500.0	1	1	1.15
- - -	Green	0.9	230	vbus 24237	RANCHVST	230.0	1	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Peak Pre-Project
CASE NAME:ccgt\pk\11pk_pre_ccgt.sav
SCE [LOAD 27366 XCHGE -7591 GEN 20874][AA 1465V 1585M 787D 1507VA]MW
[S.LUGO 2411MW][N.LUGO 563MW][N.SONGS 1577MW][S.SONGS 573MW]
[SYLMAR -329][VIC-LUGO 1072][EL-LUGO 891][MHV-LUGO 877][DV IMPORT 3095]MW



BUS_VOLT_MAG

1.15



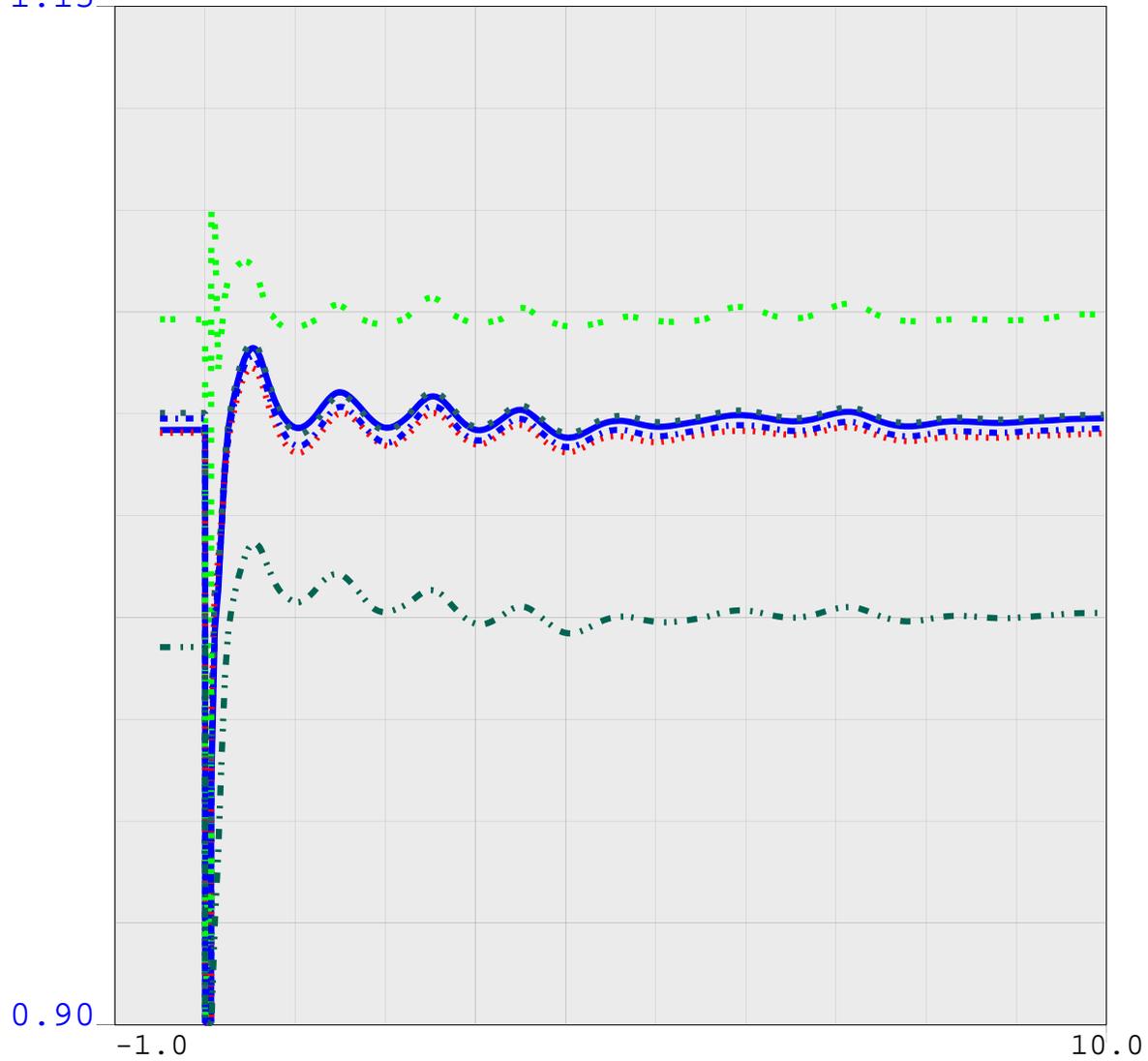
Line Style	Voltage (kV)	Bus Name	Location	Rating (kV)	Phase	Count	Value
—	0.9	vbus 24236	RANCHVST	500.0	1	1	1.15
....	0.9	vbus 24086	LUGO	500.0	1	1	1.15
- -	0.9	vbus 24138	SERRANO	500.0	1	1	1.15
- . - .	0.9	vbus 24801	DEVERS	500.0	1	1	1.15
- - -	0.9	vbus 24092	MIRALOMA	500.0	1	1	1.15
- - -	0.9	vbus 24237	RANCHVST	230.0	1	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Peak Pre-Project
CASE NAME:ccgt\pk\11pk_pre_ccgt.sav
SCE [LOAD 27366 XCHGE -7591 GEN 20874][AA 1465V 1585M 787D 1507VA]MW
[S.LUGO 2411MW][N.LUGO 563MW][N.SONGS 1577MW][S.SONGS 573MW]
[SYLMAR -329][VIC-LUGO 1072][EL-LUGO 891][MHV-LUGO 877][DV IMPORT 3095]MW



BUS_VOLT_MAG

1.15

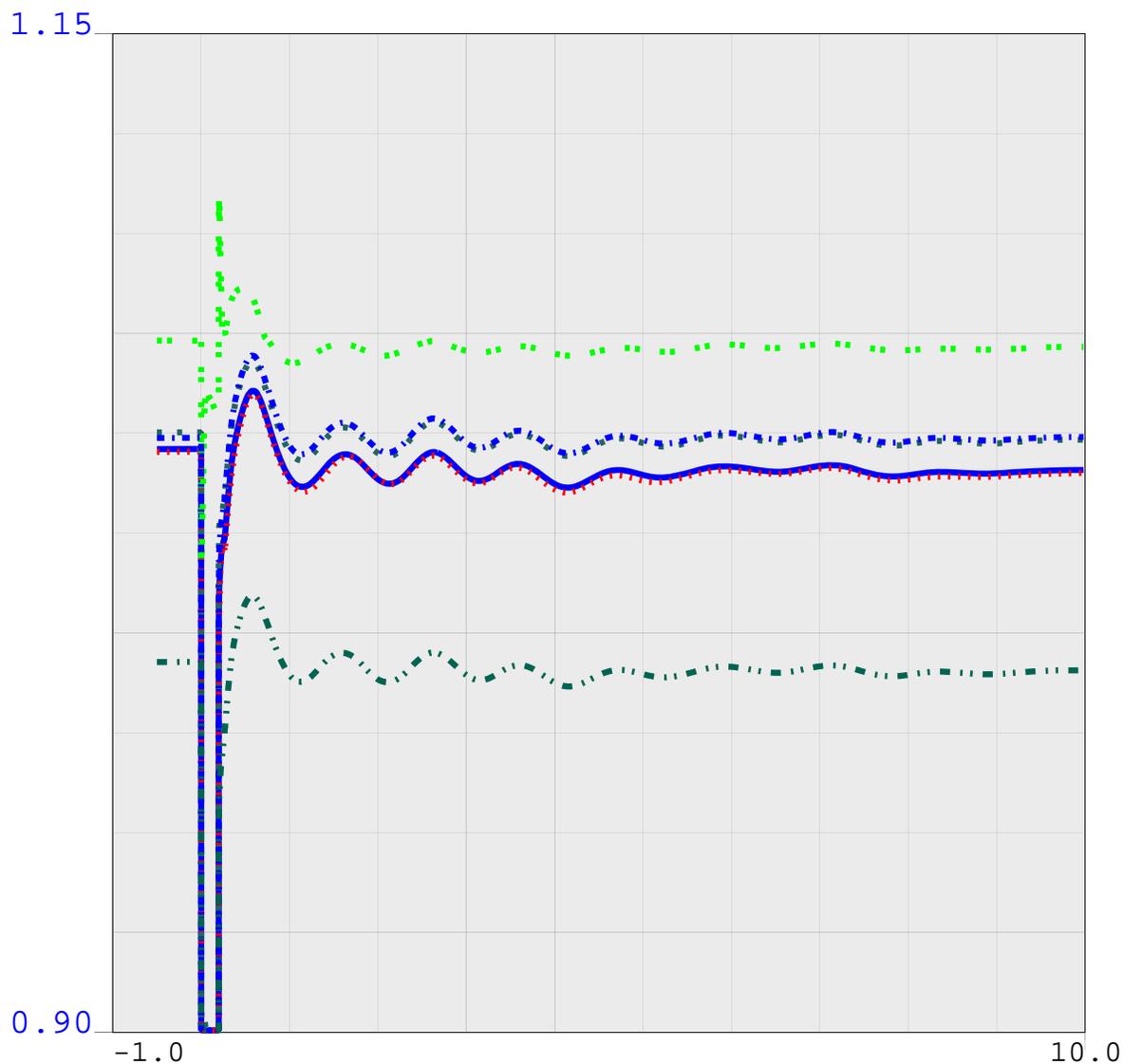


Line Style	Value	Bus ID	Bus Name	Value	Peak	Peak	Peak	
—	0.9	500	vbus 24236	RANCHVST	500.0	1	1	1.15
....	0.9	500	vbus 24086	LUGO	500.0	1	1	1.15
- -	0.9	500	vbus 24138	SERRANO	500.0	1	1	1.15
- . - .	0.9	500	vbus 24801	DEVERS	500.0	1	1	1.15
- - -	0.9	500	vbus 24092	MIRALOMA	500.0	1	1	1.15
- . .	0.9	230	vbus 24237	RANCHVST	230.0	1	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Peak Pre-Project
CASE NAME:ccgt\pk\11pk_pre_ccgt.sav
SCE [LOAD 27366 XCHGE -7591 GEN 20874][AA 1465V 1585M 787D 1507VA]MW
[S.LUGO 2411MW][N.LUGO 563MW][N.SONGS 1577MW][S.SONGS 573MW]
[SYLMAR -329][VIC-LUGO 1072][EL-LUGO 891][MHV-LUGO 877][DV IMPORT 3095]MW



BUS_VOLT_MAG



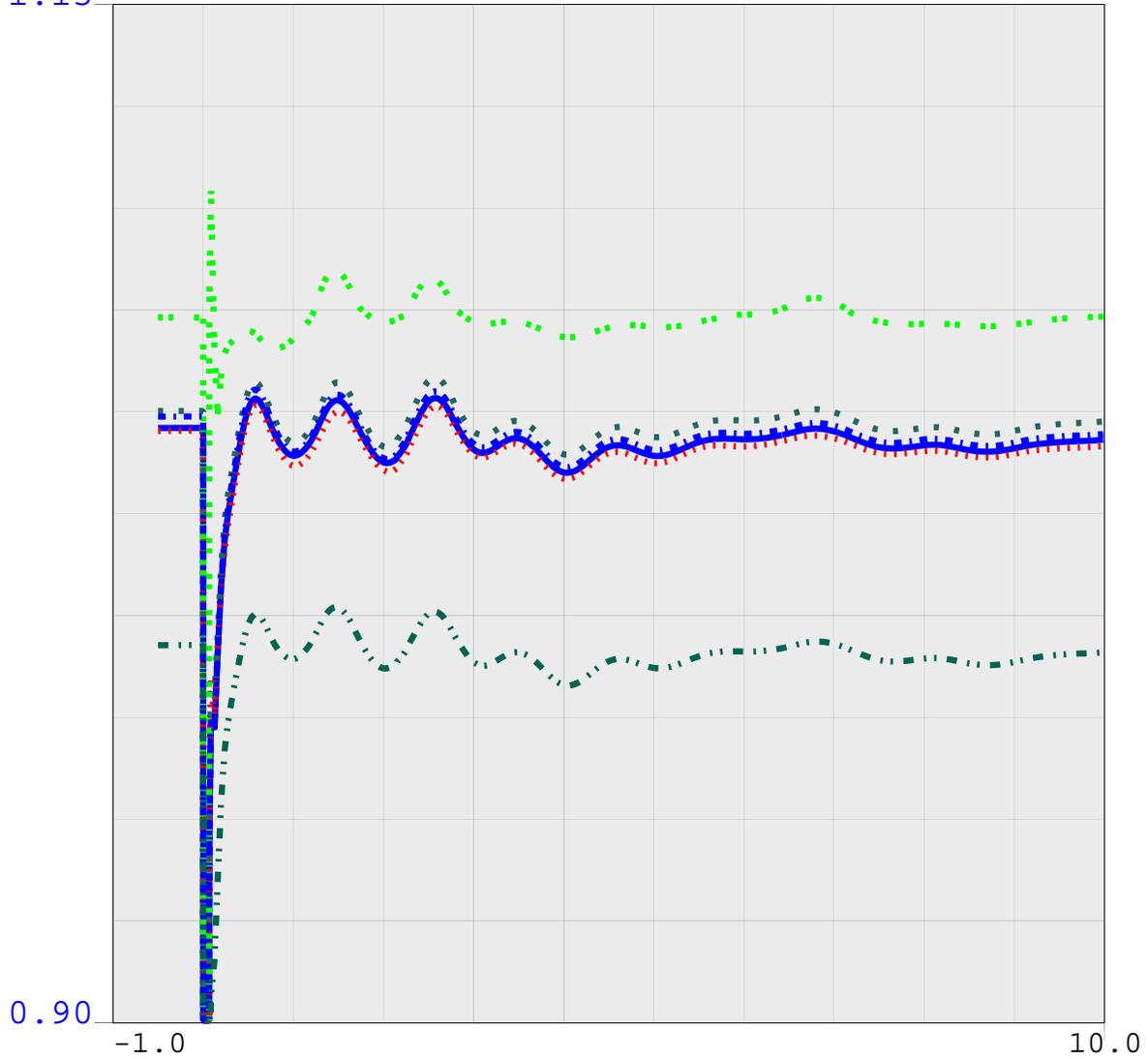
Line Style	Voltage	Bus ID	Bus Name	Value 1	Value 2	Value 3	Value 4	
—	0.9	500	vbus 24236	RANCHVST	500.0	1	1	1.15
....	0.9	500	vbus 24086	LUGO	500.0	1	1	1.15
- -	0.9	500	vbus 24138	SERRANO	500.0	1	1	1.15
- . - .	0.9	500	vbus 24801	DEVERS	500.0	1	1	1.15
- - -	0.9	500	vbus 24092	MIRALOMA	500.0	1	1	1.15
- . - .	0.9	230	vbus 24237	RANCHVST	230.0	1	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Peak Pre-Project
CASE NAME:ccgt\pk\11pk_pre_ccgt.sav
SCE [LOAD 27366 XCHGE -7591 GEN 20874][AA 1465V 1585M 787D 1507VA]MW
[S.LUGO 2411MW][N.LUGO 563MW][N.SONGS 1577MW][S.SONGS 573MW]
[SYLMAR -329][VIC-LUGO 1072][EL-LUGO 891][MHV-LUGO 877][DV IMPORT 3095]MW



BUS_VOLT_MAG

1.15



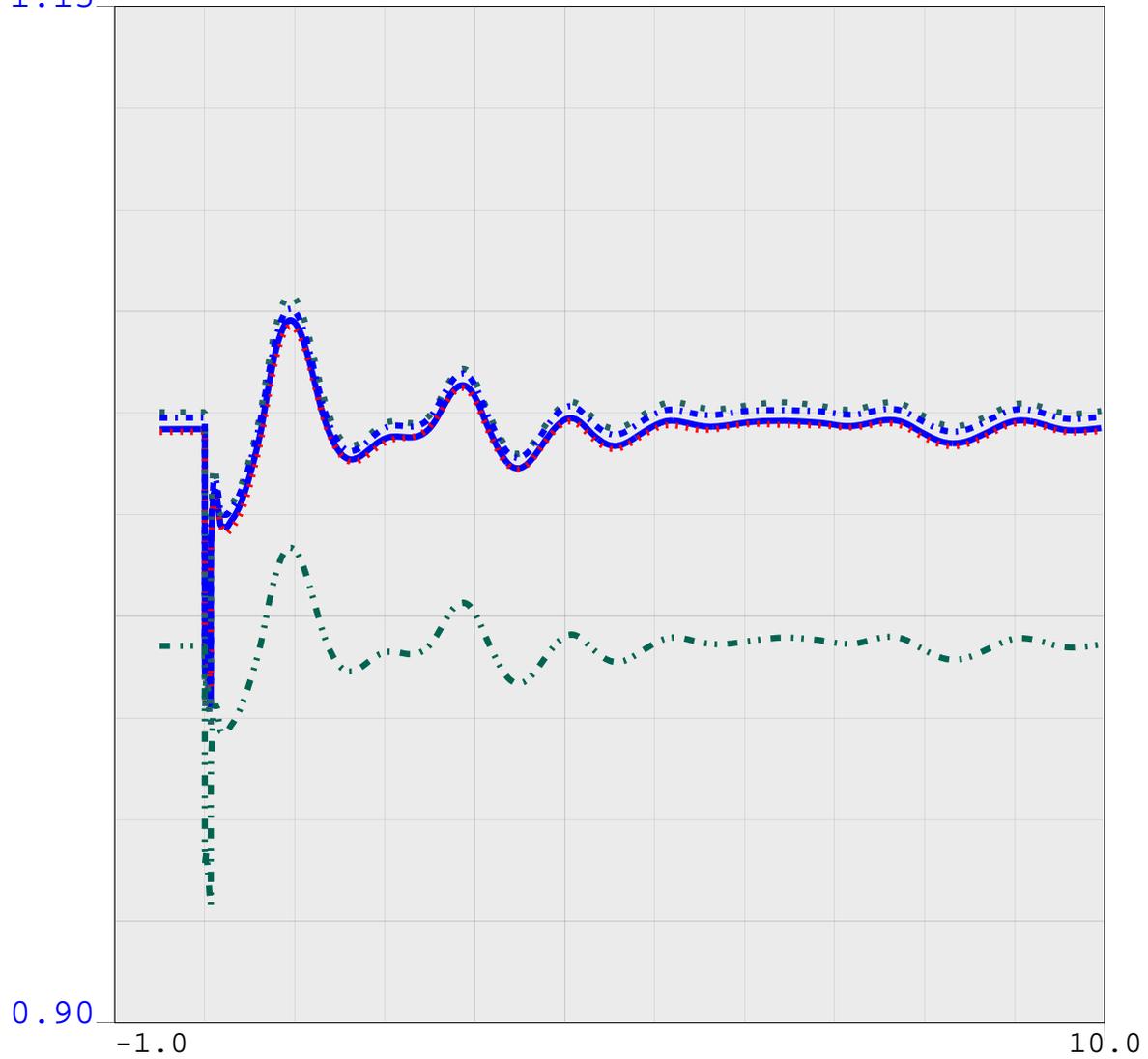
Line Style	Value	Bus ID	Location	Value	Col 6	Col 7	Value	
—	0.9	500	vbus 24236	RANCHOVST	500.0	1	1	1.15
....	0.9	500	vbus 24086	LUGO	500.0	1	1	1.15
- -	0.9	500	vbus 24138	SERRANO	500.0	1	1	1.15
- . - .	0.9	500	vbus 24801	DEVERS	500.0	1	1	1.15
- - -	0.9	500	vbus 24092	MIRALOMA	500.0	1	1	1.15
- . .	0.9	230	vbus 24237	RANCHOVST	230.0	1	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Peak Pre-Project
CASE NAME:ccgt\pk\11pk_pre_ccgt.sav
SCE [LOAD 27366 XCHGE -7591 GEN 20874][AA 1465V 1585M 787D 1507VA]MW
[S.LUGO 2411MW][N.LUGO 563MW][N.SONGS 1577MW][S.SONGS 573MW]
[SYLMAR -329][VIC-LUGO 1072][EL-LUGO 891][MHV-LUGO 877][DV IMPORT 3095]MW



BUS_VOLT_MAG

1.15



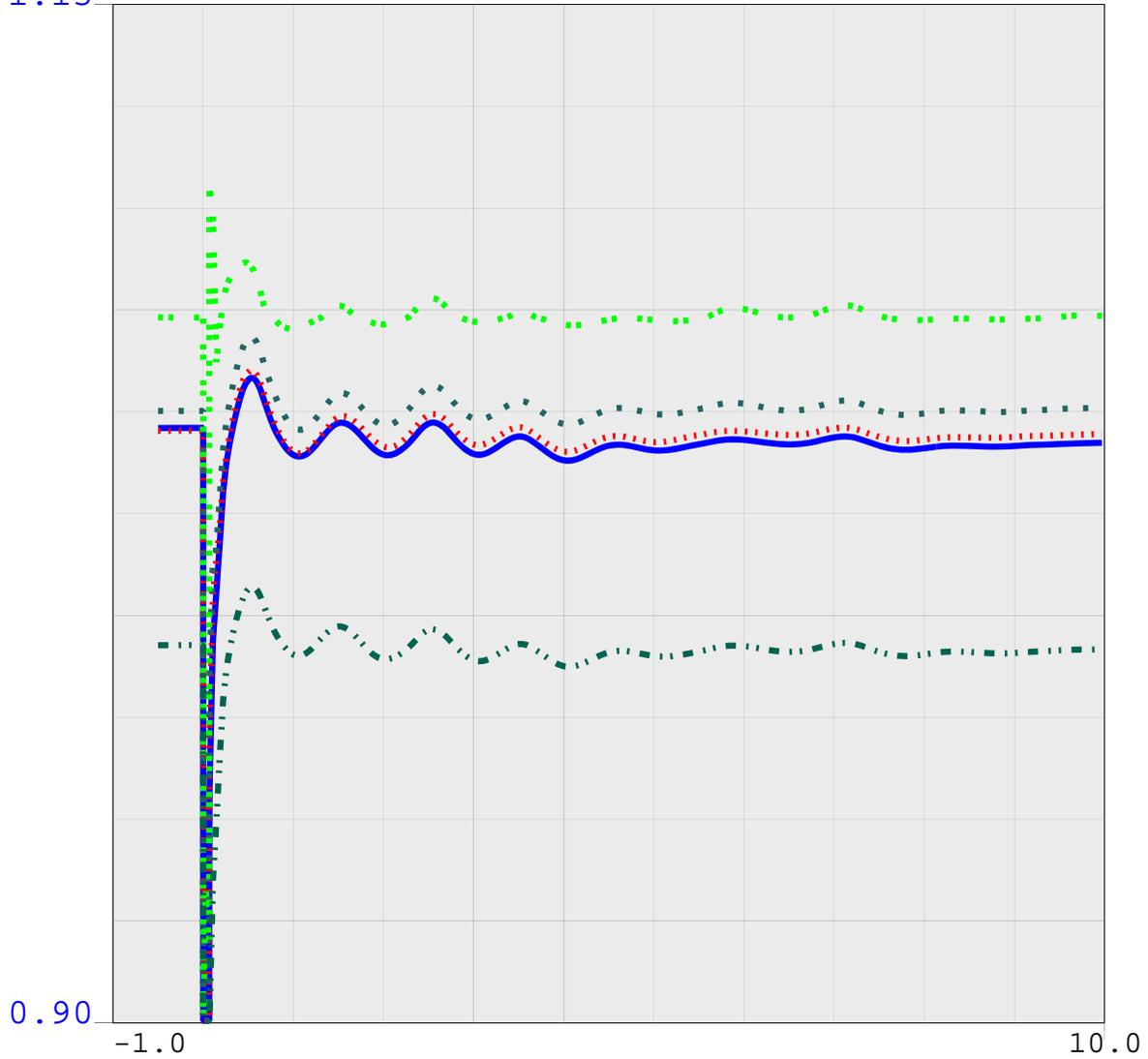
Line Style	V	Bus	Location	V	1	1	1.15	
—	0.9	500	vbus 24236	RANCHVST	500.0	1	1	1.15
....	0.9	500	vbus 24086	LUGO	500.0	1	1	1.15
- - -	0.9	500	vbus 24138	SERRANO	500.0	1	1	1.15
- . - .	0.9	500	vbus 24801	DEVERS	500.0	1	1	1.15
- - -	0.9	500	vbus 24092	MIRALOMA	500.0	1	1	1.15
- - -	0.9	230	vbus 24237	RANCHVST	230.0	1	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Peak Pre-Project
CASE NAME:ccgt\pk\11pk_pre_ccgt.sav
SCE [LOAD 27366 XCHGE -7591 GEN 20874][AA 1465V 1585M 787D 1507VA]MW
[S.LUGO 2411MW][N.LUGO 563MW][N.SONGS 1577MW][S.SONGS 573MW]
[SYLMAR -329][VIC-LUGO 1072][EL-LUGO 891][MHV-LUGO 877][DV IMPORT 3095]MW



BUS_VOLT_MAG

1.15

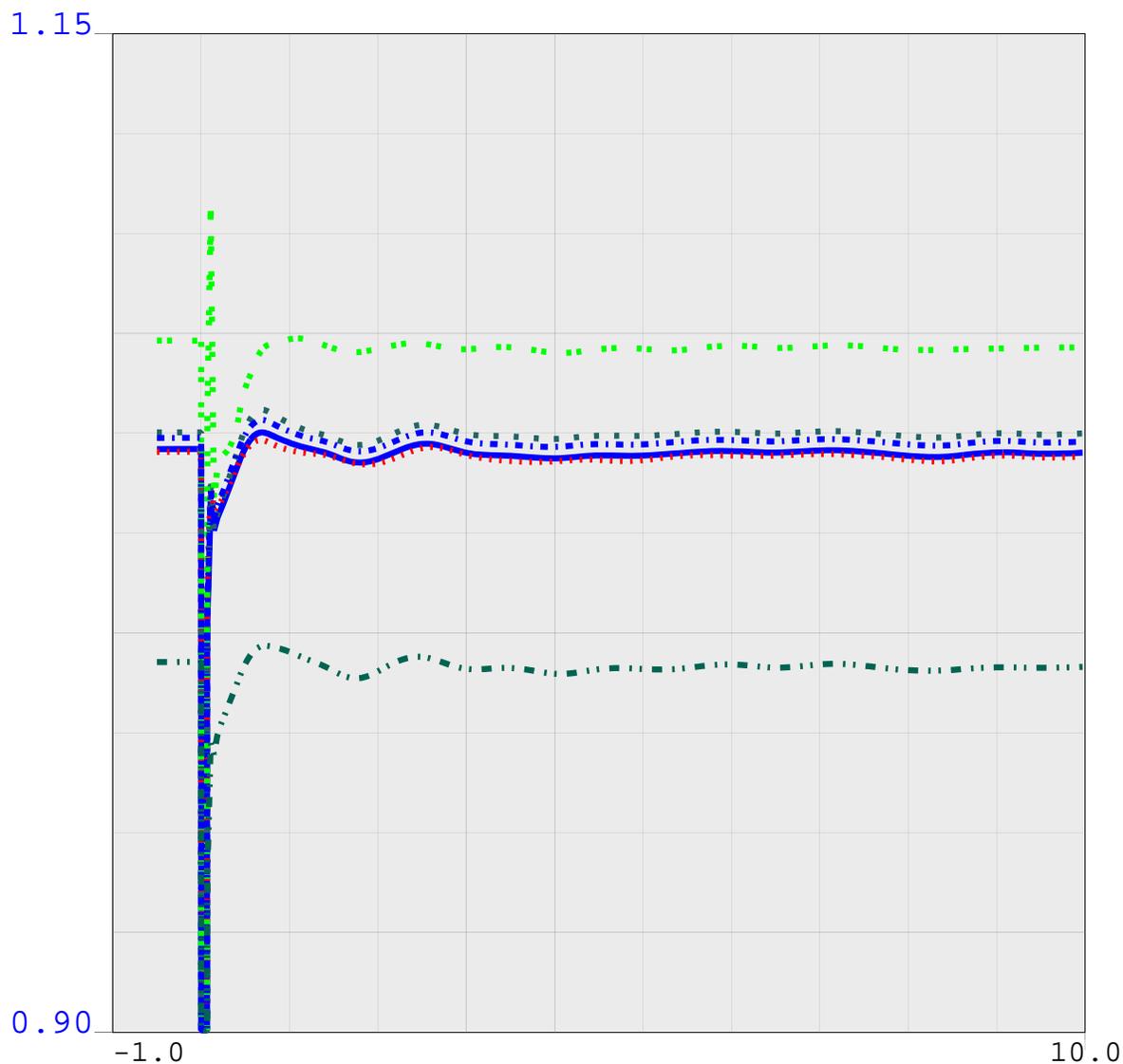


Line Style	Voltage (kV)	Bus ID	Bus Name	Initial Value	Final Value	Peak Value	
—	0.9	500	vbus 24236 RANCHVST	500.0	1	1	1.15
....	0.9	500	vbus 24086 LUGO	500.0	1	1	1.15
- -	0.9	500	vbus 24138 SERRANO	500.0	1	1	1.15
- . - .	0.9	500	vbus 24801 DEVERS	500.0	1	1	1.15
- - -	0.9	500	vbus 24092 MIRALOMA	500.0	1	1	1.15
- -	0.9	230	vbus 24237 RANCHVST	230.0	1	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Peak Pre-Project
CASE NAME:ccgt\pk\11pk_pre_ccgt.sav
SCE [LOAD 27366 XCHGE -7591 GEN 20874][AA 1465V 1585M 787D 1507VA]MW
[S.LUGO 2411MW][N.LUGO 563MW][N.SONGS 1577MW][S.SONGS 573MW]
[SYLMAR -329][VIC-LUGO 1072][EL-LUGO 891][MHV-LUGO 877][DV IMPORT 3095]MW



BUS_VOLT_MAG



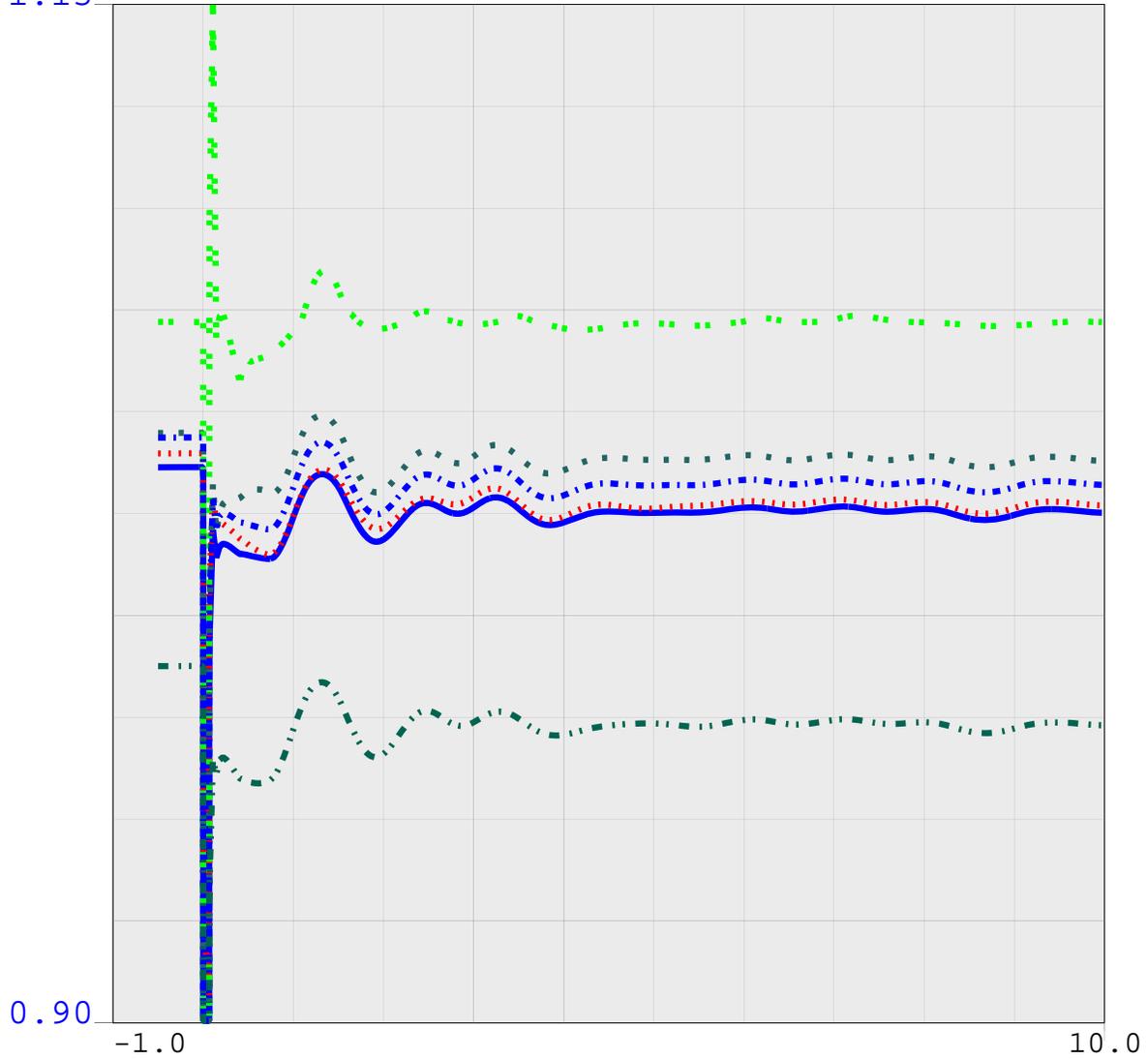
Line Style	Value	Bus ID	Bus Name	Value	1	1	Value
—	0.9	500	vbus 24236	RANCHVST	500.0	1	1.15
....	0.9	500	vbus 24086	LUGO	500.0	1	1.15
- -	0.9	500	vbus 24138	SERRANO	500.0	1	1.15
- . - .	0.9	500	vbus 24801	DEVERS	500.0	1	1.15
- - -	0.9	500	vbus 24092	MIRALOMA	500.0	1	1.15
- . - .	0.9	230	vbus 24237	RANCHVST	230.0	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Peak Pre-Project
CASE NAME:ccgt\pk\11pk_pre_ccgt.sav
SCE [LOAD 27366 XCHGE -7591 GEN 20874][AA 1465V 1585M 787D 1507VA]MW
[S.LUGO 2411MW][N.LUGO 563MW][N.SONGS 1577MW][S.SONGS 573MW]
[SYLMAR -329][VIC-LUGO 1072][EL-LUGO 891][MHV-LUGO 877][DV IMPORT 3095]MW



BUS_VOLT_MAG

1.15



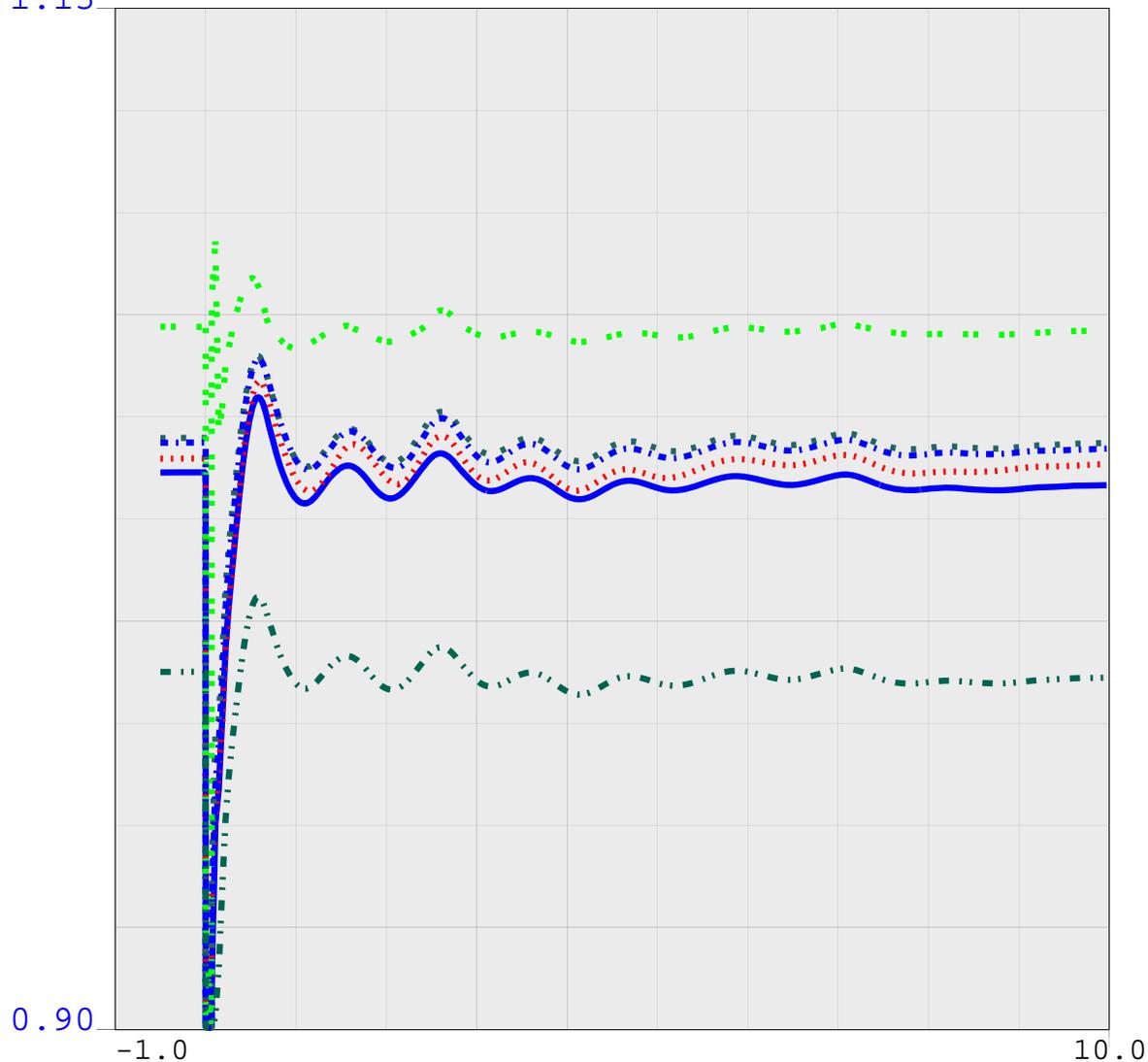
Line Style	Voltage (kV)	Bus ID	Location	Rated Voltage (kV)	Phase	Count	Peak Value
—	0.9	500 vbus 24236	RANCHVST	500.0	1	1	1.15
....	0.9	500 vbus 24086	LUGO	500.0	1	1	1.15
- -	0.9	500 vbus 24138	SERRANO	500.0	1	1	1.15
- . - .	0.9	500 vbus 24801	DEVERS	500.0	1	1	1.15
- - -	0.9	500 vbus 24092	MIRALOMA	500.0	1	1	1.15
- . - .	0.9	230 vbus 24237	RANCHVST	230.0	1	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Peak Post-Project
CASE NAME:ccgt\pk\11pk_post_ccgt.sav
SCE [LOAD 27382 XCHGE -7591 GEN 20888][AA 1632V 1525M 777D 1507VA]MW
[S.LUGO 1965MW][N.LUGO 563MW][N.SONGS 1590MW][S.SONGS 560MW]
[SYLMAR -87][VIC-LUGO 875][EL-LUGO 878][MHV-LUGO 864][DV IMPORT 3076]MW



BUS_VOLT_MAG

1.15



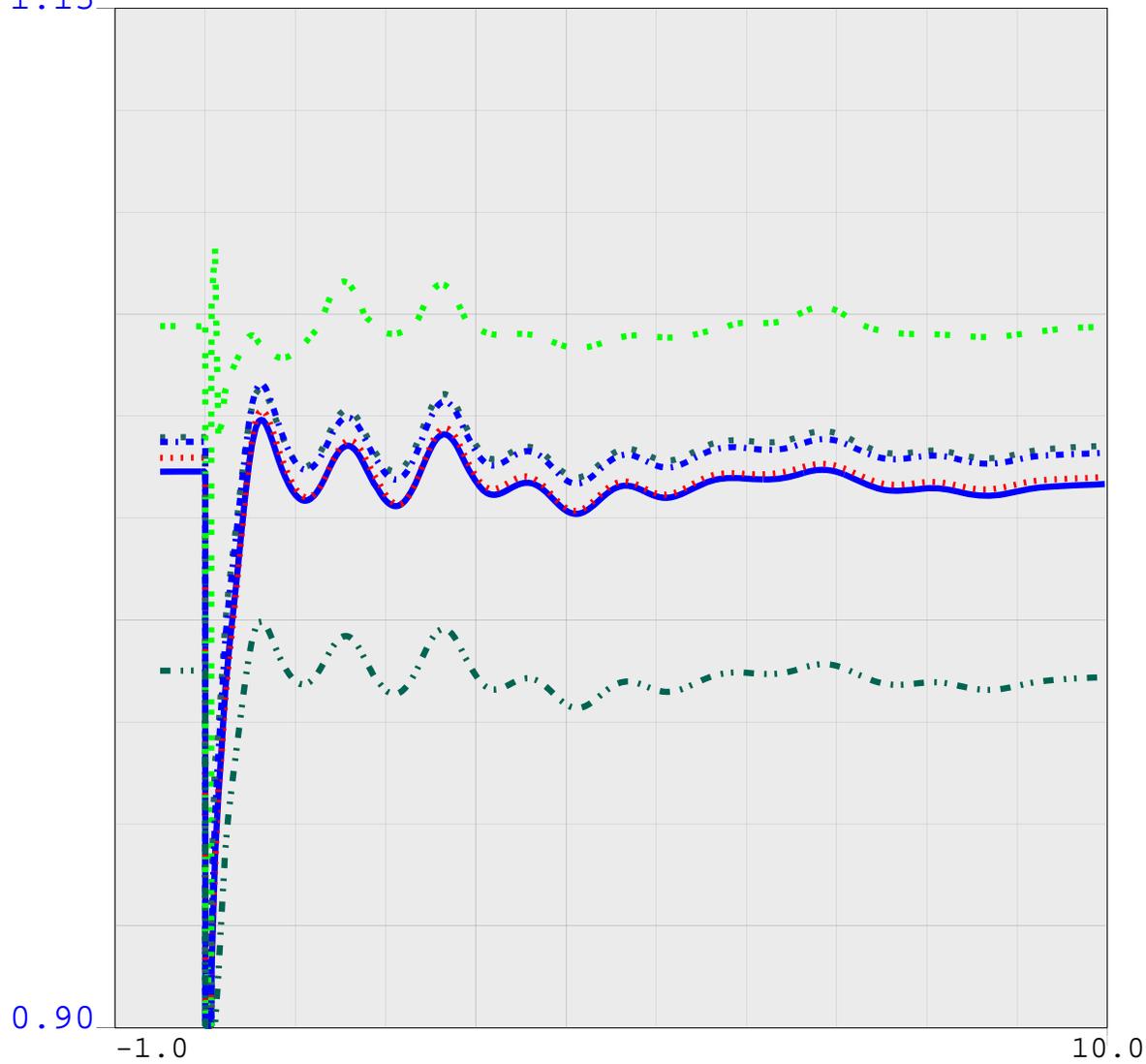
Line Style	Value	Bus ID	Location	Value	1	1	Value
—	0.9	500 vbus 24236	RANCHVST	500.0	1	1	1.15
....	0.9	500 vbus 24086	LUGO	500.0	1	1	1.15
--	0.9	500 vbus 24138	SERRANO	500.0	1	1	1.15
-. .	0.9	500 vbus 24801	DEVERS	500.0	1	1	1.15
- - -	0.9	500 vbus 24092	MIRALOMA	500.0	1	1	1.15
- . .	0.9	230 vbus 24237	RANCHVST	230.0	1	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Peak Post-Project
CASE NAME:ccgt\pk\11pk_post_ccgt.sav
SCE [LOAD 27382 XCHGE -7591 GEN 20888][AA 1632V 1525M 777D 1507VA]MW
[S.LUGO 1965MW][N.LUGO 563MW][N.SONGS 1590MW][S.SONGS 560MW]
[SYLMAR -87][VIC-LUGO 875][EL-LUGO 878][MHV-LUGO 864][DV IMPORT 3076]MW



BUS_VOLT_MAG

1.15

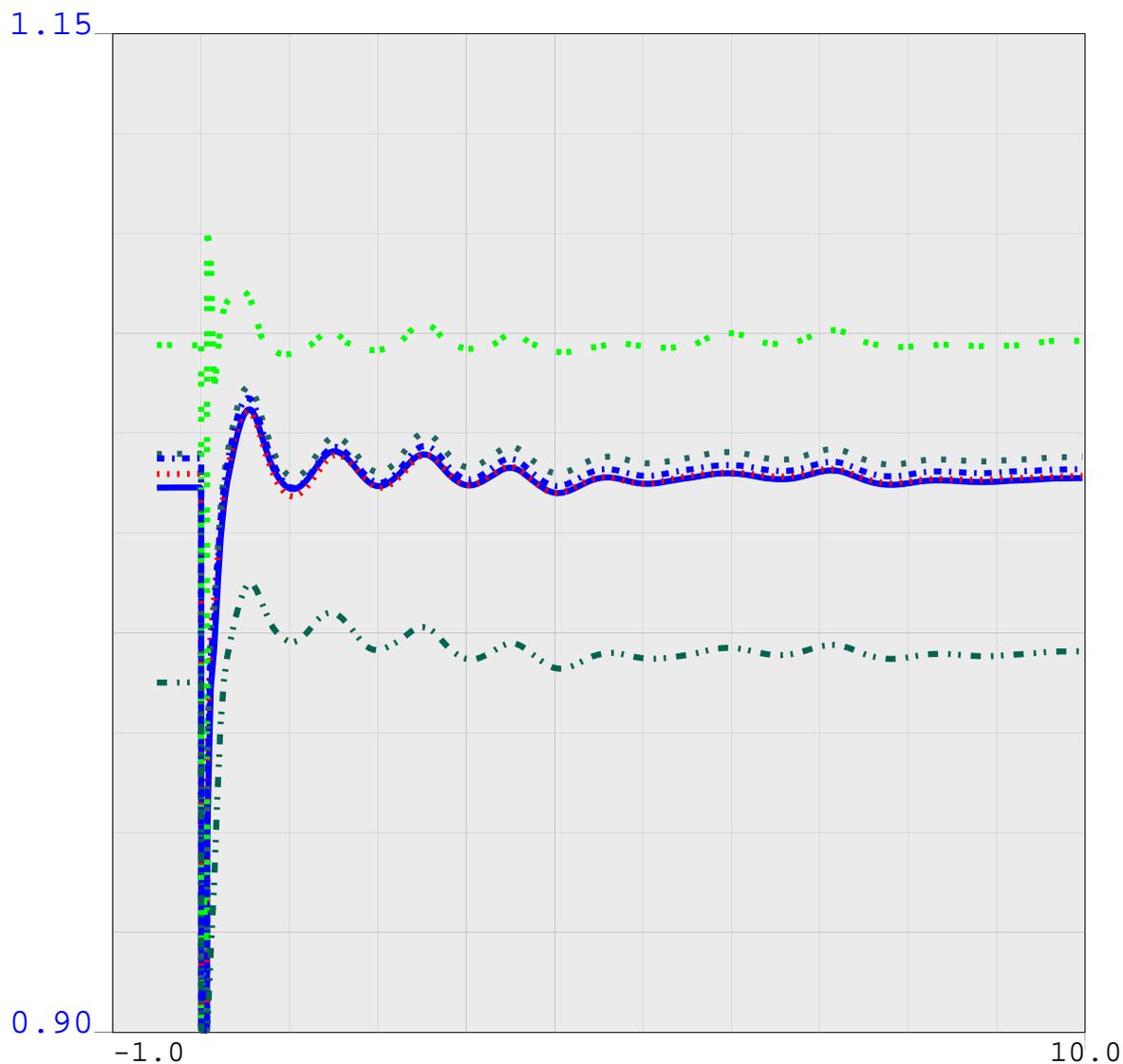


Line Style	V	Bus	Location	V	1	1	Value	
—	0.9	500	vbus 24236	RANCHVST	500.0	1	1	1.15
....	0.9	500	vbus 24086	LUGO	500.0	1	1	1.15
- -	0.9	500	vbus 24138	SERRANO	500.0	1	1	1.15
- - -	0.9	500	vbus 24801	DEVERS	500.0	1	1	1.15
- - -	0.9	500	vbus 24092	MIRALOMA	500.0	1	1	1.15
- - -	0.9	230	vbus 24237	RANCHVST	230.0	1	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Peak Post-Project
CASE NAME:ccgt\pk\11pk_post_ccgt.sav
SCE [LOAD 27382 XCHGE -7591 GEN 20888][AA 1632V 1525M 777D 1507VA]MW
[S.LUGO 1965MW][N.LUGO 563MW][N.SONGS 1590MW][S.SONGS 560MW]
[SYLMAR -87][VIC-LUGO 875][EL-LUGO 878][MHV-LUGO 864][DV IMPORT 3076]MW



BUS_VOLT_MAG

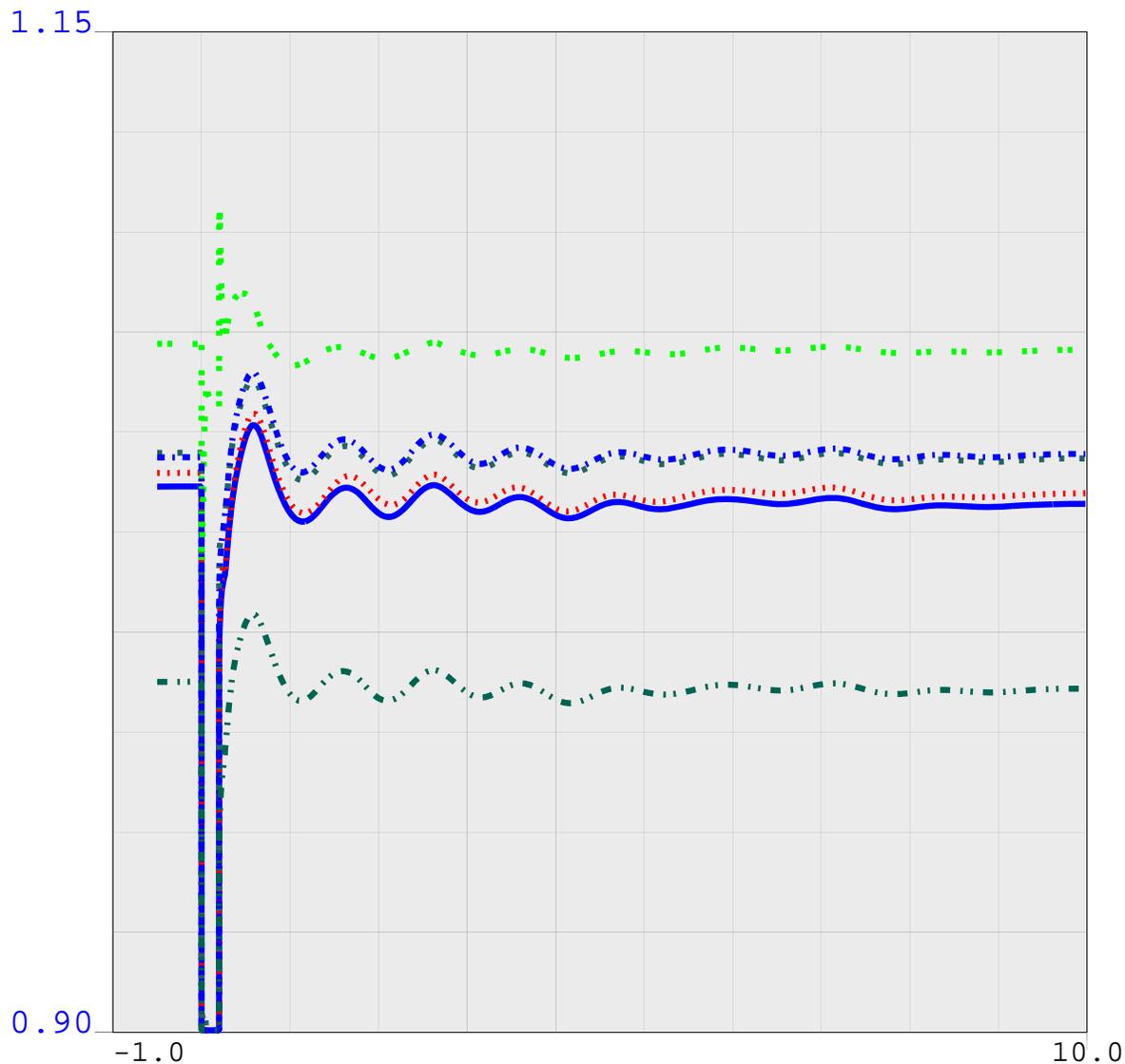


Line Style	Voltage Rating	Bus Name	Location	Rating	Count 1	Count 2	Steady State Value
—	0.9	500 vbus 24236	RANCHVST	500.0	1	1	1.15
....	0.9	500 vbus 24086	LUGO	500.0	1	1	1.15
- -	0.9	500 vbus 24138	SERRANO	500.0	1	1	1.15
- . - .	0.9	500 vbus 24801	DEVERS	500.0	1	1	1.15
- - -	0.9	500 vbus 24092	MIRALOMA	500.0	1	1	1.15
- . -	0.9	230 vbus 24237	RANCHVST	230.0	1	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Peak Post-Project
CASE NAME:ccgt\pk\11pk_post_ccgt.sav
SCE [LOAD 27382 XCHGE -7591 GEN 20888][AA 1632V 1525M 777D 1507VA]MW
[S.LUGO 1965MW][N.LUGO 563MW][N.SONGS 1590MW][S.SONGS 560MW]
[SYLMAR -87][VIC-LUGO 875][EL-LUGO 878][MHV-LUGO 864][DV IMPORT 3076]MW



BUS_VOLT_MAG



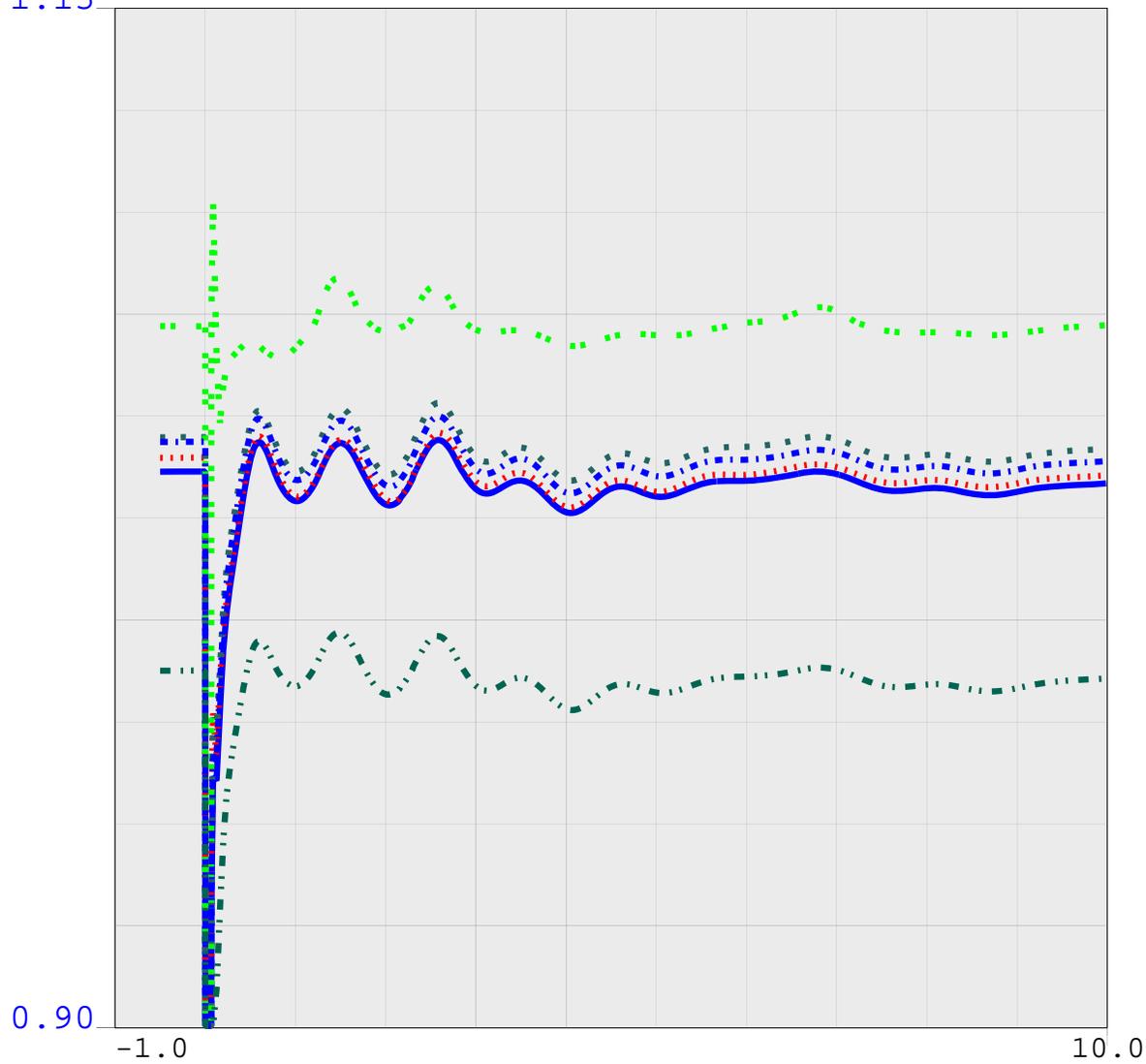
Line Style	Value	Bus ID	Bus Name	Value	Value	Value	Value	
—	0.9	500	vbus 24236	RANCHVST	500.0	1	1	1.15
....	0.9	500	vbus 24086	LUGO	500.0	1	1	1.15
- -	0.9	500	vbus 24138	SERRANO	500.0	1	1	1.15
- . - .	0.9	500	vbus 24801	DEVERS	500.0	1	1	1.15
- - -	0.9	500	vbus 24092	MIRALOMA	500.0	1	1	1.15
- . - .	0.9	230	vbus 24237	RANCHVST	230.0	1	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Peak Post-Project
CASE NAME:ccgt\pk\11pk_post_ccgt.sav
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[S.LUGO 1965MW][N.LUGO 563MW][N.SONGS 1590MW][S.SONGS 560MW]
[SYLMAR -87][VIC-LUGO 875][EL-LUGO 878][MHV-LUGO 864][DV IMPORT 3076]MW



BUS_VOLT_MAG

1.15



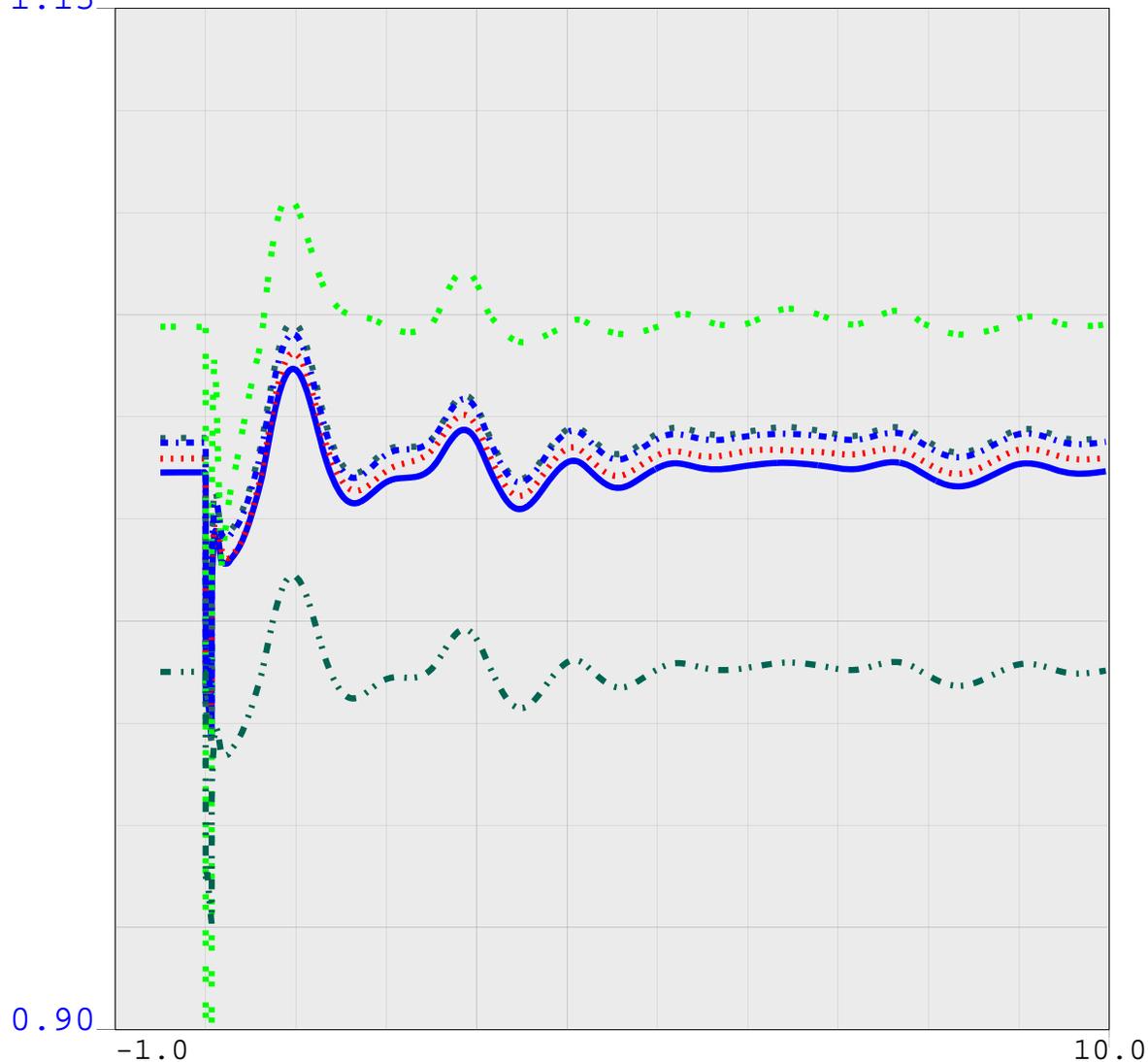
Line Style	Value	Bus ID	Location	Value	Col 6	Col 7	Value	
—	0.9	500	vbus 24236	RANCHVST	500.0	1	1	1.15
....	0.9	500	vbus 24086	LUGO	500.0	1	1	1.15
- -	0.9	500	vbus 24138	SERRANO	500.0	1	1	1.15
- . - .	0.9	500	vbus 24801	DEVERS	500.0	1	1	1.15
- - -	0.9	500	vbus 24092	MIRALOMA	500.0	1	1	1.15
- . - .	0.9	230	vbus 24237	RANCHVST	230.0	1	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Peak Post-Project
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SCE [LOAD 27382 XCHGE -7591 GEN 20888][AA 1632V 1525M 777D 1507VA]MW
[S.LUGO 1965MW][N.LUGO 563MW][N.SONGS 1590MW][S.SONGS 560MW]
[SYLMAR -87][VIC-LUGO 875][EL-LUGO 878][MHV-LUGO 864][DV IMPORT 3076]MW



BUS_VOLT_MAG

1.15

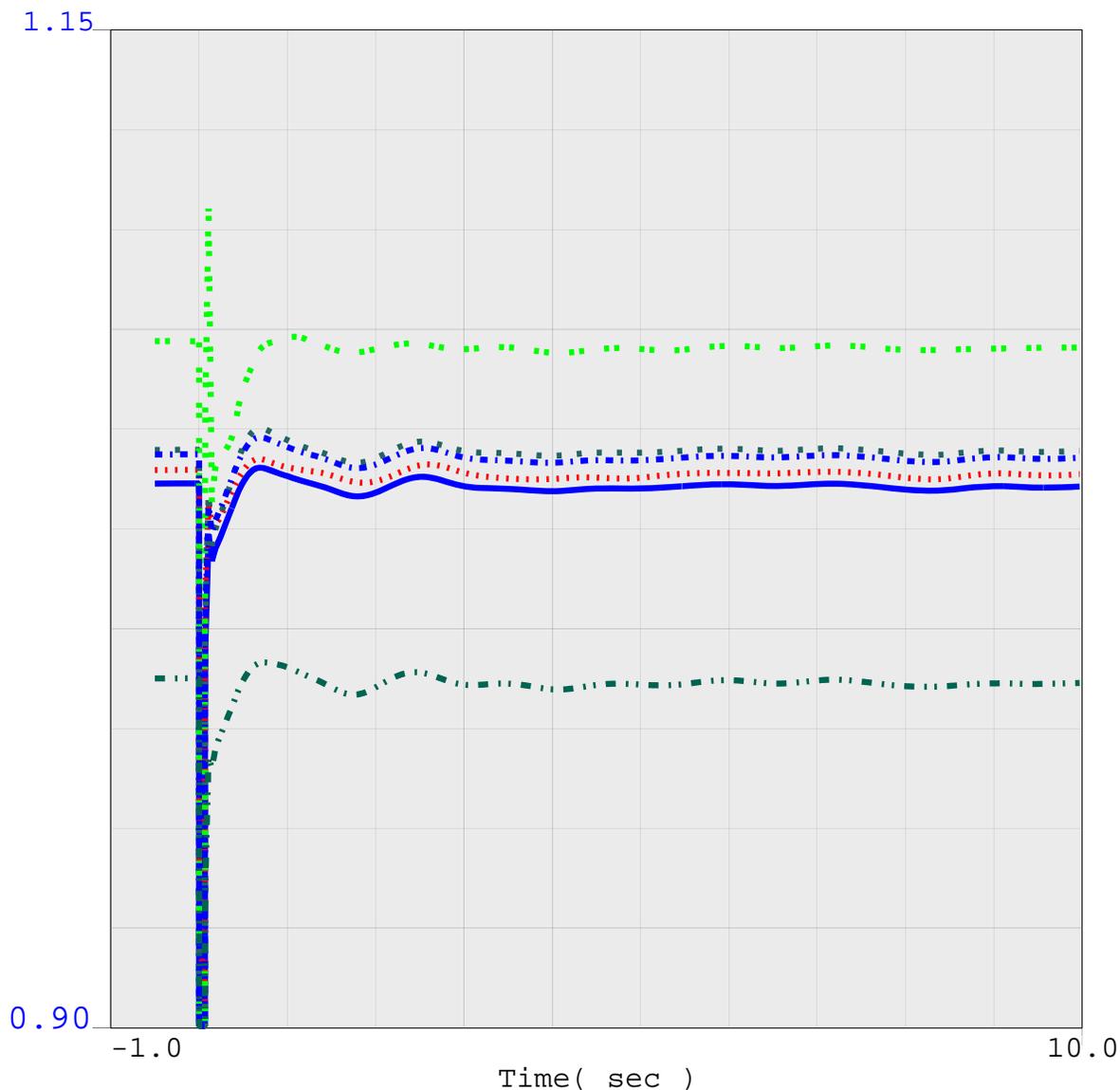


Line Style	0.9	500	vbus	Location	500.0	1	1	1.15
—	0.9	500	vbus 24236	RANCHVST	500.0	1	1	1.15
....	0.9	500	vbus 24086	LUGO	500.0	1	1	1.15
- -	0.9	500	vbus 24138	SERRANO	500.0	1	1	1.15
- . - .	0.9	500	vbus 24801	DEVERS	500.0	1	1	1.15
- - -	0.9	500	vbus 24092	MIRALOMA	500.0	1	1	1.15
- . - .	0.9	230	vbus 24237	RANCHVST	230.0	1	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Peak Post-Project
CASE NAME:ccgt\pk\11pk_post_ccgt.sav
SCE [LOAD 27382 XCHGE -7591 GEN 20888][AA 1632V 1525M 777D 1507VA]MW
[S.LUGO 1965MW][N.LUGO 563MW][N.SONGS 1590MW][S.SONGS 560MW]
[SYLMAR -87][VIC-LUGO 875][EL-LUGO 878][MHV-LUGO 864][DV IMPORT 3076]MW



BUS_VOLT_MAG



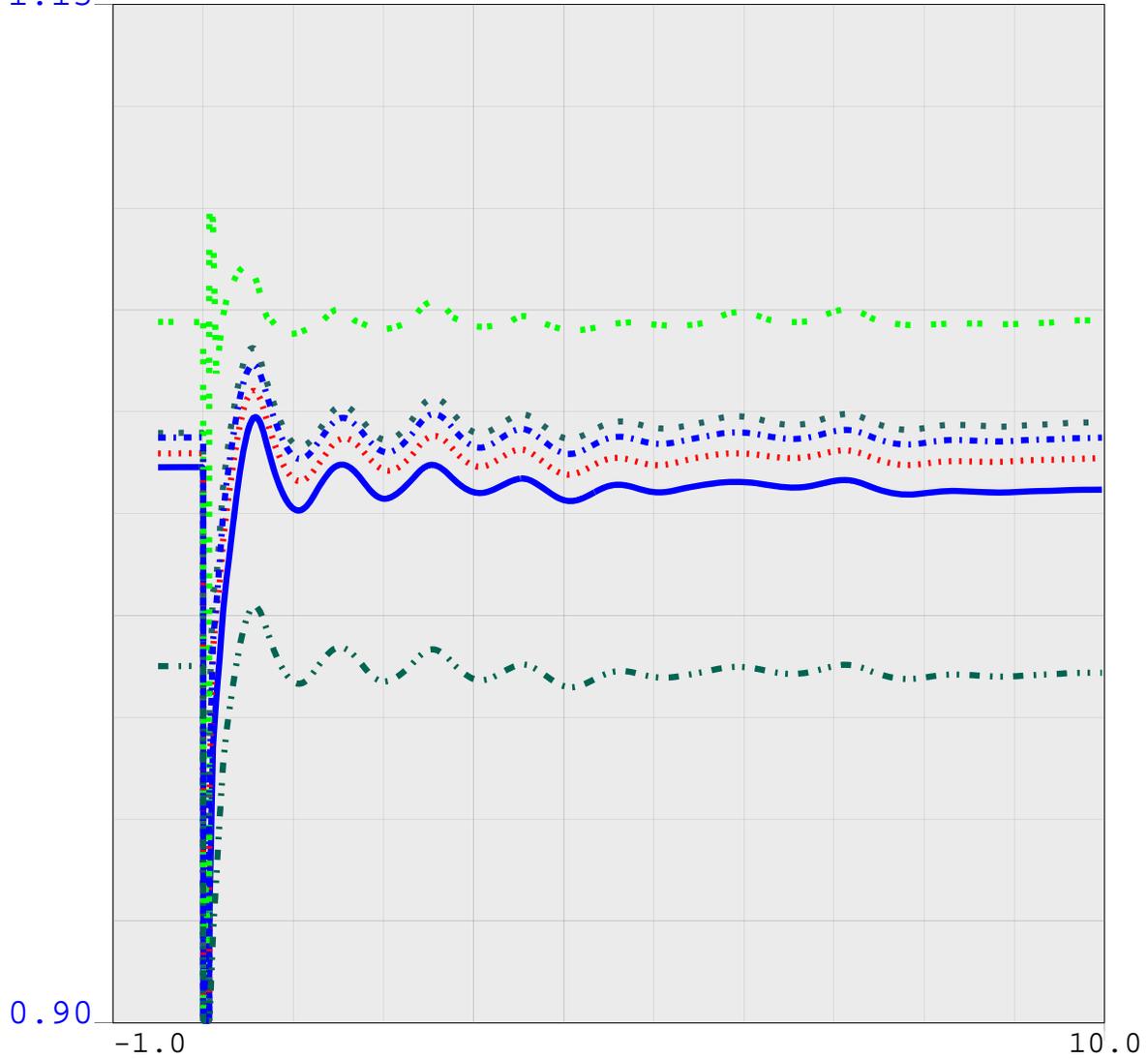
Line Style	Voltage	Bus ID	Bus Name	Value 1	Value 2	Value 3
—	0.9	500	vbus 24236	RANCHOVST	500.0	1 1 1.15
....	0.9	500	vbus 24086	LUGO	500.0	1 1 1.15
--	0.9	500	vbus 24138	SERRANO	500.0	1 1 1.15
-.-.	0.9	500	vbus 24801	DEVERS	500.0	1 1 1.15
---	0.9	500	vbus 24092	MIRALOMA	500.0	1 1 1.15
-.-	0.9	230	vbus 24237	RANCHOVST	230.0	1 1 1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Peak Post-Project
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[SYLMAR -87][VIC-LUGO 875][EL-LUGO 878][MHV-LUGO 864][DV IMPORT 3076]MW



BUS_VOLT_MAG

1.15



Line Style	Value	Bus ID	Bus Name	Value	Unit	Value	Value	Value
—	0.9	500	vbus 24236	RANCHVST	500.0	1	1	1.15
....	0.9	500	vbus 24086	LUGO	500.0	1	1	1.15
- -	0.9	500	vbus 24138	SERRANO	500.0	1	1	1.15
- . - .	0.9	500	vbus 24801	DEVERS	500.0	1	1	1.15
- - -	0.9	500	vbus 24092	MIRALOMA	500.0	1	1	1.15
- . .	0.9	230	vbus 24237	RANCHVST	230.0	1	1	1.15

Reliant Energy Etiwanda CCGT Expansion 2011 Peak Post-Project
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[S.LUGO 1965MW][N.LUGO 563MW][N.SONGS 1590MW][S.SONGS 560MW]
[SYLMAR -87][VIC-LUGO 875][EL-LUGO 878][MHV-LUGO 864][DV IMPORT 3076]MW

