

**VIA ELECTRONIC MAIL**

July 13, 2012

Deborah Behles  
Environmental Law and Justice Clinic  
Golden Gate University School of Law  
536 Mission Street  
San Francisco, CA 94105-2968

Shana Lazerow  
Staff Attorney  
Communities for a Better Environment  
1904 Franklin Street, Suite 600  
Oakland, CA 94612

**Re: ISO Response to the Third Set of Data Requests of CEJA in Docket No. R.12-03-014**

Dear Ms. Behles and Ms. Lazerow:

Enclosed please find the California Independent System Operator's response to the third set of data requests served by the California Environmental Justice Alliance.

Please feel free to call me if you have any questions.

Sincerely,

**/s/ Judith B. Sanders**

Judith B. Sanders  
Senior Counsel  
California Independent System  
Operator Corporation

**BEFORE  
THE PUBLIC UTILITIES COMMISSION  
OF THE STATE OF CALIFORNIA**

**Order Instituting Rulemaking to Integrate  
and Refine Procurement Policies and  
Consider Long-Term Procurement Plans.**

**R.12-03-014**

**RESPONSE OF  
THE CALIFORNIA INDEPENDENT SYSTEM OPERATOR CORPORATION  
TO THE THIRD SET OF DATA REQUESTS OF THE  
CALIFORNIA ENVIRONMENTAL JUSTICE ALLIANCE**

Below are responses to the Third Set of Data Requests served by the California Environmental Justice Alliance (CEJA).

**RESPONSE**

**Request No. 1.**

1. Provide an excel spreadsheet showing, for the final power flow cases used to determine the 2021 Local Capacity Requirements for Western LA Basin and LA Basin listed in Table 1 in Mr. Sparks' May 23 Testimony in this proceeding, before and after the contingencies, for the Environmental Scenario and the Trajectory Scenario:

**(CEJA has limited its request to the data it received in A.11-05-023)**

- a. The output of all generators that are dispatched; and

**ISO RESPONSE TO No. 1(a)**

*This information is attached.*

- b. The power flows and direction on all transmission tie lines connecting into the LCR area.

**ISO RESPONSE TO No. 1(b)**

*This information is attached.*

**Request No. 2.**

2. Request 2 - Provide an excel spreadsheet showing, for the final power flow cases used to determine the 2021 Local Capacity Requirements for Western LA Basin and LA Basin listed in Table 2 in Mr. Sparks' June 19 Supplemental Testimony in this proceeding, before and after the contingencies, for the Environmental Scenario:

**(CEJA has limited its request to the data it received in A.11-05-023)**

- a. The output of all generators that are dispatched; and

**ISO RESPONSE TO No. 2(a)**

*This information is attached.*

- b. The power flows and direction on all transmission tie lines connecting into the LCR area.

**ISO RESPONSE TO No. 2(b)**

*This information is attached.*

**Request No. 3.**

- a. Please fill in the following table providing the incremental energy efficiency (EE) and combined heat and power (CHP), considered in the sensitivity analysis referenced in Mr. Sparks' June 19 Supplemental Testimony:

**ISO RESPONSE TO No. 3(a)**

<b>Area</b>	<b>2021 Incremental Uncommitted EE (MW) Modeled in Addendum Analysis</b>	<b>2021 Incremental Uncommitted CHP (MW) Modeled in Addendum Analysis</b>
Western LA	1121	290
LA Basin Overall	1950	310

- b. Please fill in the following table providing the incremental energy efficiency (EE) and demand response (DR), considered in the sensitivity analysis referenced on page 255 of CAISO's 2011-2012 Transmission Plan:

**ISO RESPONSE TO No. 3(b)**

Area	2021 Incremental Uncommitted EE (MW) Modeled in Sensitivity Analysis	2021 Incremental Uncommitted CHP (MW) Modeled in Sensitivity Analysis
Western LA	1121	0
LA Basin Overall	1950	0

**Request No. 4**

4. Did CAISO run a sensitivity analysis that considered demand response resources in addition to the EE and CHP resources discussed in the June 19, 2012 testimony? If it did, please provide the results of the sensitivity. If it did not, please explain why CAISO did not include DR in its sensitivity analysis.

**ISO RESPONSE TO No. 4**

*The ISO did not include demand response in the sensitivity study. The ISO does not believe that Demand Response can be relied upon to address local capacity needs, unless the DR can provide equivalent characteristics and response to that of a dispatchable generator. DR should be dispatchable when and where needed and for a specific megawatt quantity, to address local capacity needs. However, Demand Response does not have these characteristics as this time.*

**Request No. 5**

5. On page 3 of the June 12, 2012 Addendum to the Board-Approved Transmission Plan, CAISO states that it “dispatched additional base-load generation in San Diego LCR area to adequately mitigate a voltage instability concern under an N-1-1 contingency condition (i.e., Sunrise Powerlink and Southwest Powerlink). Please explain the following:
  - a. What is the basis of CAISO’s assumption that SDG&E will have a N-1-1 contingency at the same time as a double contingency in the LA Basin?

**ISO RESPONSE TO No. 5(a)**

*The ISO did not assume that SDG&E would have an N-1-1 contingency at the same time as a double contingency in the LA Basin. We assumed that approximately 1900 MW of local capacity would be available in the SDG&E area, and we dispatched that amount of generation capacity to minimize the LCR need in the LA Basin. The 1900 MW amount was determined as the approximate amount of LCR that would be in the SDG&E area*

*because that is the approximate amount that would be needed to protect against the N-1-1 contingency without any contingencies in the LA Basin. .*

- b. Does NERC or WECC require considerations of two LCR areas having a double contingency event at the same time? If so, where is the requirement documented?

**ISO RESPONSE TO No. 5(b)**

*See response to 5a.*

- c. What is the total generation modeled in SDG&E service area as a result of this assumption?

**ISO RESPONSE TO No. 5(c)**

*The total generation within San Diego LCR area for this sensitivity study is approximately 1,900 MW.*

- d. Is this assumption consistent with CAISO's LCR transmission planning criteria? If so, please explain what criteria apply.

**ISO RESPONSE TO No. 5(d)**

An assumption that SDG&E will have a N-1-1 contingency at the same time as a double contingency in the LA Basin would not be consistent with the CAISO's LCR criteria. Again, the ISO did not make this assumption.

- e. Please explain how this assumption impacted the final LCR results for the LA Basin and the Western LA Basin in the sensitivity.

**ISO RESPONSE TO No. 5(e)**

*The ISO did not make this assumption, so it did not impact the final LCR results for the LA Basin and the Western LA Basin sensitivity study.*

**Request No. 6**

- 6. Request 6: On page 3 of the June 12, 2012 Addendum to the Board-Approved Transmission Plan, CAISO states that it "inadvertently monitored the Serrano-Villa Park #2 230kV line, which has a higher rating than its parallel Serrano-Villa Park #1 230 kV line." Please explain the following:
  - a. What is the rating of the Serrano-Villa #2 230kV line? Please provide the Amps and MVA rating.

**ISO RESPONSE TO No 6(a)**

*This is confidential information available on the ISO secure website pursuant to confidentiality arrangement.*

- b. What is the rating of the Serrano-Villa #1 230kV line? Please provide the Amps and MVA rating.

**ISO RESPONSE TO No 6(b)**

*This is confidential information available on the ISO secure website pursuant to confidentiality arrangement.*

- c. Explain what causes the constraint on the Serrano-Villa #1 230kV line.

**ISO RESPONSE TO No 6(c)**

*This is confidential information. Please contact SCE regarding the details behind the rating of this line which are the cause of this constraint.*

- d. Has CAISO evaluated any mitigation measures to mitigate this constraint? If so, explain what they are. If not, explain why not.

**ISO RESPONSE TO No 6(d)**

*The ISO has requested information from SCE regarding the feasibility of upgrading the limiting transmission line.*

**Request No. 7**

- 7. Request 7: Has CAISO performed any other sensitivities considering EE, DR, or CHP that are not presented in the Transmission Plan or the Addendum? If the answer is yes, please provide the results of the analysis and the supporting documentation.

**ISO RESPONSE TO No 7**

*No.*

GenName	ID	Pgen
=====	=====	=====
LAGUBELL	RT	38.5
HOMART	RT	7.8
GOODRICH	RT	10.4
MIRALOMA	RT	2.7
RIOHONDO	RT	11.3
LWIS ANM	RT	64
ZANJA	D1	0.1
LA FRESA	10	3.9
SANBRDNO	D9	4.2
VILLA PK	D9	0.5
LCIENEGA	D9	1.4
ETIWANDA	D7	13.4
ELLIS	D7	1
HINSON	D8	2.3
JOHANNA	D6	4.7
LA FRESA	D9	4.8
WALNUT	D9	6.4
MESA CAL	D8	5.1
VILLA PK	D8	9.9
VIEJO66	D4	5.4
LA FRESA	D8	4
ELLIS	12	7.2
VALLEYSC	10	2.6
LAGUBELL	D5	18.3
PADUA	D7	3.1
BARRE	11	4.4
LA FRESA	D7	9
SANBRDNO	D8	5.9
SANBRDNO	D7	2.7
OLINDA	D7	3.7
BARRE	10	6.6
ELLIS	11	9.7
LCIENEGA	D8	0.9
LITEHIPE	10	3.4
VALLEY-S	D7	1.3
ELLIS	10	3.3
CENTER	D7	5.7
VALLEYSC	D9	6
HINSON	D7	4.5
VALLEY-S	D6	6.4
ALMITOSW	D3	8.6
CHINO	D9	1.4
DELAMO	D9	2.6
ELLIS	D6	1.4
ALBERHIL	D5	3.5

LA Basin - Environmental Scenario

LITEHIPE	D9	1.6
BARRE	D9	10.6
SHANDIN	D1	4.1
EL NIDO	D5	6.9
HINSON	D6	1.6
LCIENEGA	D7	1.5
SANTIAGO	10	5.5
LCIENEGA	D6	4.3
CENTER	D6	14.8
PADUA	D6	7.2
SANBRDNO	D6	3.1
PADUA	D5	7.8
MESA CAL	D7	2.6
LA FRESA	D6	3.8
RIOHONDO	D9	8.1
RIOHONDO	D8	3.3
MESA CAL	D6	1.9
SANBRDNO	D5	3.3
MESA CAL	D5	3.8
LAGUBELL	D4	2.3
ETIWANDA	D6	6.7
WALNUT	D8	15.5
WALNUT	D7	10.2
WALNUT	D6	7.9
VILLA PK	D7	12.9
CENTER	D5	1.6
HINSON	D5	3.3
CHINO	D8	10.6
PEPPER	D1	3
MIRALOMA	D8	2.5
VALLEY-S	D5	3.9
VALLEY-S	D4	2.3
OLINDA	D6	2.9
PADUA	D4	3
VILLA PK	D6	14.2
VIEJO66	D3	4
OLINDA	D5	2.8
ELLIS	D5	6
LITEHIPE	D8	2.4
WALNUT	D5	12.8
SANTIAGO	D9	4.6
MESA CAL	D4	0.6
ALBERHIL	D4	6.5
HINSON	D4	2.5
VALLEYSC	D8	4.3
VALLEYSC	D7	3.2
MESA CAL	D3	5.4



LA Basin - Environmental Scenario

CHINO	D7	4.2
CENTER	D4	4.9
LCIENEGA	D5	1.7
SANTIAGO	D8	4.4
SANTIAGO	D7	0.4
VALLEYS	D6	2.5
VALLEY-S	D3	6.1
VILLA PK	D5	0.1
MIRALOMA	D7	3.9
CHINO	D6	19.9
MESA CAL	D2	1.9
WALNUT	D4	1.3
VALLEYS	D5	3.9
VSTA	D2	5.3
LA FRESA	D5	1.2
BARRE	D8	8.5
LCIENEGA	D4	4.7
MARASCHI	D1	2.8
SANTIAGO	D6	2.3
DELAMO	D8	0.8
HINSON	D3	2.3
PADUA	D3	3.5
VIEJO66	D2	15.6
LITEHIPE	D7	0.1
EL NIDO	D4	1.6
PADUA	D2	6.8
RIOHONDO	D7	6.8
BARRE	D7	5.8
LAGUBELL	D3	11.7
ELLIS	D4	3.9
VILLA PK	D4	1.9
BARRE	D6	2.2
DELAMO	D7	6.2
OLINDA	D4	17
LA FRESA	D4	5.1
GOULD	D3	3.3
JOHANNA	D5	10.5
LITEHIPE	D6	4.5
MIRALOMA	D6	0.4
ALBERHIL	D3	0
SANTIAGO	D5	3.8
EL NIDO	D3	1.5
WALNUT	D3	11.2
CENTER	D3	4.8
HOMART	D1	2.1
SANBRDNO	D4	5.6
ALMITOSW	D2	2.2

LA Basin - Environmental Scenario

ELLIS	D3	1.6
DELAMO	D6	8.5
GOULD	D2	1
VSTA	D4	1.4
ELLIS	D9	5.3
BARRE	D5	7.2
ETIWANDA	D5	4.9
CHINO	D5	8.9
CENTER	D2	9.9
BARRE	D4	10.9
LAGUBELL	D2	7.6
LITEHIPE	D5	4.9
CHINO	D4	9
CHINO	D3	14.2
LITEHIPE	D4	6.8
EL NIDO	D2	0.8
JOHANNA	D4	9
EAGLROCK	D2	4.8
ETIWANDA	D4	9
SANTIAGO	D4	8.4
DELAMO	D5	2.6
BARRE	D3	9.8
ALBERHIL	D2	3.3
ALBERHIL	D1	3.3
ELLIS	D2	5.6
EL NIDO	D1	2.7
MESA CAL	D1	0.8
LA FRESA	D3	2.7
CHINO	D2	3.3
SANBRDNO	D3	4.9
ETIWANDA	D3	16
RIOHONDO	D6	6.6
DELAMO	D4	6.1
LCIENEGA	D3	2.6
LAGUBELL	D1	3.5
PADUA	D1	9.7
SANTIAGO	D3	1.1
LA FRESA	D2	3
WALNUT	D2	4.6
MIRALOMA	D5	3.5
MIRALOMA	D4	2.4
DELAMO	D3	0.1
VSTA	D3	2.4
LCIENEGA	D2	10.1
RIOHONDO	D5	4.9
VIEJO66	D1	0.4
CHINO	D1	16.5

LA Basin - Environmental Scenario

JOHANNA	D3	8.4
MIRALOMA	D3	1.6
CENTER	D1	3.1
LITEHIPE	D3	3.7
OLINDA	D3	6.6
DELAMO	D2	12.9
SANBRDNO	D2	5.5
SANBRDNO	D1	4.4
VILLA PK	D3	2.2
HINSON	D2	1.6
JOHANNA	D2	5.3
CAL ELEC	D1	6.5
JOHANNA	D1	5.2
VALLEYSC	D4	3
LITEHIPE	D2	1.5
VILLA PK	D2	9.1
ELLIS	D8	2.3
ALMITOSW	D1	0.1
LA FRESA	D1	3.8
OLINDA	D2	3.8
RIOHONDO	D4	8.6
HINSON	D1	1.1
DELAMO	D1	1.4
SANTIAGO	D2	1.1
BARRE	D2	8.8
VSTA	D2	7.7
LCIENEGA	D1	9.4
ELLIS	D1	2.3
WALNUT	D1	1.1
BARRE	D1	3.2
BANNING	D1	16.8
MIRALOMA	D2	7.3
VALLEY-S	D2	4.8
VALLEY-S	D1	2.8
VILLA PK	D1	4
GOULD	D1	2.7
ETIWANDA	D2	4.7
MIRALOMA	D1	1.1
RIOHONDO	D3	3.1
RIOHONDO	D2	3.3
RIOHONDO	D1	2.4
LITEHIPE	D1	1.9
EAGLROCK	D1	4.9
VALLEYSC	D3	4.5
VALLEYSC	D2	2.2
ETIWANDA	D1	0.3
TAMARISK	D1	4.9

SANTA RO	D2	4.7
SANTA RO	D1	3.9
INDIAN W	D1	4.3
GARNET	D1	5.5
FARREL	D1	3.5
CONCHO	D1	2.7
CARODEAN	D1	0.5
VSTA	D1	2.6
VALLEYS	E3	12
CHINO	E2	10.2
VALLEYS	E2	12
YUCCA	E1	9.6
EL CASCO	E2	12
SANTA RO	E1	12
MARASCHI	E1	12
ZANJA	E1	12
BANNING	E1	12
EL CASCO	E1	12
VALLEYS	E1	12
CHINO	E1	10.2
HARBOR	F1	2
DEVERS	F1	5.8
ALAMT1 G	1	0
ALAMT2 G	2	0
ALAMT3 G	3	140
ALAMT4 G	4	320
ALAMT5 G	5	480
ALAMT6 G	6	480
ALAMT7 G	R7	0
ANAHEIMG	1	50
ARCO 1G	1	56
ARCO 2G	2	56
ARCO 3G	3	56
ARCO 4G	4	56
ARCO 5G	5	28
ARCO 6G	6	28
BRIGEN	1	0
CARBGEN1	1	15
CHEVGEN1	1	0.2
CHEVGEN2	2	0.2
DELGEN	1	45
DVLCYN1G	1	37.4
DVLCYN2G	2	37.3
DVLCYN3G	3	37.4
DVLCYN4G	4	37.3
ELSEG3 G	3	0
ELSEG4 G	4	0

MTNVIST3	3	200
MTNVIST4	4	320
HINSON	1	0
HUNT1 G	1	225
HUNT2 G	2	225
ICEGEN	D1	46
INLAND	1	30
LBEACH12	2	65
LBEACH34	3	65
MOBGEN1	1	21
OLINDA	1	6
REDON5 G	5	0
REDON6 G	6	0
REDON7 G	7	0
REDON8 G	8	0
S.ONOFR2	2	1070
S.ONOFR3	3	1080
VSTA	1	0
ETI MWDG	1	20.1
ESRP P1	2	0
ESRP P1	3	0
ESRP P1	4	0
ESRP P2	6	0
ESRP P2	7	0
ESRP P2	8	0
ESRP P3	10	0
ESRP P3	11	0
ESRP P3	12	0
SANTIAGO	1	4.2
HARBOR G	1	76
HARBORG4	LP	11
HARBOR G	HP	11
PASADNA1	1	22
PASADNA2	1	22
BRODWYSC	1	65
MNTV-CT1	1	0
MNTV-CT2	1	0
MNTV-ST1	1	0
MNTV-CT3	1	0
MNTV-CT4	1	0
MNTV-ST2	1	0
IEEC-G1	1	335
IEEC-G2	2	335
EME WCG1	1	100
EME WCG3	1	100
EME WCG4	1	100
EME WCG5	1	100

EME WCG2	1	100
TOT139G1	1	0
TOT139G2	2	0
TOT139G3	3	0
TERAWND	QF	3.8
CAPWIND	QF	3.3
BUCKWND	W5	0.6
BUCKWND	QF	2.8
ALTWIND	Q1	5.5
ALTWIND	Q2	2.5
RENWIND	Q1	1
RENWIND	Q2	1.1
TRANWND	QF	6.7
SEAWIND	QF	4.5
PANAERO	QF	5
VENWIND	EU	2.8
VENWIND	Q2	3.2
VENWIND	Q1	4.3
SANWIND	Q2	4.7
SANWIND	Q1	0.5
WINTECX2	1	45.3
WINTECX1	1	45.3
WINTEC8	1	45.3
GARNET	QF	16.9
RENWIND	W1	1.5
GARNET	W3	1.9
GARNET	W2	1.1
GARNET	PC	0.3
GARNET	G1	1.5
GARNET	G2	0.5
GARNET	G3	1.1
WINTEC4	1	0
MOUNTWND	S1	7.4
MOUNTWND	S3	3.7
MOUNTWND	S2	3.7
WHITEWTR	1	11
ALTAMSA4	1	40
CABAZON	1	7.1
WINTEC6	1	7.5
MALBRG3G	S3	49
MALBRG2G	C2	42
MALBRG1G	C1	42
RERC1G	1	48
RERC2G	1	48
SPRINGEN	1	44
ETWPKGEN	1	44.5
MRLPKGEN	1	45

CTRPKGGEN	1	44
BARPKGGEN	1	45
NRG ELG5	5	150
NRG ELG6	6	150
NRG ELS7	7	270
REFUSE	D1	9.8
CLTNDREW	1	47.2
CLTNCTRY	1	47.2
CLTNAGUA	1	45
MJVSPHN1	1	15
MJVSPHN2	2	15
MJVSPHN3	3	15
CIMGEN	D1	25
HILLGEN	D1	51.6
SERRFGEN	D1	27
SIMPSON	D1	25
LBEACH12	1	65
LBEACH34	4	65
LBEACH5G	R5	0
LBEACH6G	R6	0
SANIGEN	D1	6.7
ORCOGEN	1	0
THUMSGEN	1	0
CARBGEN2	1	15
MOBGEN2	1	20
OUTFALL1	1	0
OUTFALL2	1	0
PALOGEN	D1	3.6
VENICE	1	0
COYGEN	1	18
FEDGEN	1	0
CLEARGEN	1	0
DELGEN	1	30
SIGGEN	D1	23.9
RERC2G3	1	50
RERC2G4	1	50
CanyonGT	1	60
CanyonGT	2	60
CanyonGT	3	60
CanyonGT	4	60
TOT032G1	1	105
TOT032G2	1	105
TOT032G3	1	105
TOT032G4	1	105
TOT032G5	1	105
TOT032G6	1	105
TOT032G7	1	105

LA Basin - Environmental Scenario

TOT032G8	1	105
TOT185GN	1	16.3
WDT213G1	1	2.6
WDT213G2	1	2.8
		11246.7



ALL LINES IN SERVICE

Flo direction	FNAME	FKV	TNAME	TKV	CK	P
-1	DEVERS	500	RedBluff	500	1	-1169.4
-1	DEVERS	500	RedBluff	500	2	-1169.4
-1	MIRALOMA	500	VINCENT	500	1	-838.1
-1	EAGLROCK	230	SYLMAR S	230	1	-667.8
-1	GOULD	230	SYLMAR S	230	1	-649.2
-1	RIOHONDO	230	VINCENT	230	1	-614.9
-1	RIOHONDO	230	VINCENT	230	2	-612.6
-1	MESA CAL	230	VINCENT	230	2	-589
-1	MESA CAL	230	VINCENT	230	1	-582
-1	MIRAGE	230	J.HINDS	230	1	-372.7
1	TALEGA	230	S.ONOFRE	230	1	-266.2
1	SANLUSRY	230	S.ONOFRE	230	1	-163.6
1	SANLUSRY	230	S.ONOFRE	230	2	-118.5
1	SANLUSRY	230	S.ONOFRE	230	3	-114.7
-1	S.ONOFRE	230	CAPSTRNO	230	1	166.7
1	RAMON	230	MIRAGE	230	1	174
1	COACHELV	230	MIRAGE	230	1	218.2
1	LUGO	500	MIRALOMA	500	3	1471.3
1	LUGO	500	MIRALOMA	500	2	1504.4
1	LUGO	500	RANCHVST	500	1	1791.8

11595.1

LIMITING CONTINGENCY

-1	DEVERS	500	RedBluff	500	1	-1245.4
-1	DEVERS	500	RedBluff	500	2	-1245.4
-1	EAGLROCK	230	SYLMAR S	230	1	-1120.3
-1	MIRALOMA	500	VINCENT	500	1	-968.7
-1	RIOHONDO	230	VINCENT	230	1	-655.2
-1	RIOHONDO	230	VINCENT	230	2	-652.8
-1	MESA CAL	230	VINCENT	230	2	-631.2
-1	MESA CAL	230	VINCENT	230	1	-623.4
-1	MIRAGE	230	J.HINDS	230	1	-395.1
1	TALEGA	230	S.ONOFRE	230	1	-259.3
1	SANLUSRY	230	S.ONOFRE	230	1	-134.1
1	SANLUSRY	230	S.ONOFRE	230	2	-97
1	SANLUSRY	230	S.ONOFRE	230	3	-93.9
-1	S.ONOFRE	230	CAPSTRNO	230	1	164.3
1	RAMON	230	MIRAGE	230	1	181.6
1	COACHELV	230	MIRAGE	230	1	222.3
1	LUGO	500	MIRALOMA	500	3	1350.6
1	LUGO	500	MIRALOMA	500	2	1381.2
1	LUGO	500	RANCHVST	500	1	1677.6

11602.2

gen	11246
import	11602
load	22848

GenName	ID	Pgen
=====	=====	=====
LAGUBELL	RT	4.6
LWIS ANM	RT	4.5
ETIWANDA	D7	4.5
JOHANNA	D6	4.5
WALNUT	D9	4.6
MESA CAL	D8	4.6
VILLA PK	D8	4.6
VIEJO66	D4	4.5
ELLIS		12 4.6
LAGUBELL	D5	4.6
BARRE		10 4.6
ELLIS		11 4.5
CENTER	D7	4.5
ALMITOSW	D3	4.6
BARRE	D9	4.5
EL NIDO	D5	4.6
SANTIAGO		10 4.5
CENTER	D6	4.6
PADUA	D6	4.6
PADUA	D5	4.6
RIOHONDO	D9	4.6
WALNUT	D8	4.6
WALNUT	D7	4.6
WALNUT	D6	4.6
VILLA PK	D7	4.6
CHINO	D8	4.6
VILLA PK	D6	4.6
ELLIS	D5	4.6
WALNUT	D5	4.6
MESA CAL	D3	4.6
CENTER	D4	4.6
CHINO	D6	4.5
BARRE	D8	4.6
VIEJO66	D2	4.5
PADUA	D2	4.6
RIOHONDO	D7	4.6
BARRE	D7	4.6
LAGUBELL	D3	4.6
DELAMO	D7	4.6
OLINDA	D4	4.6
JOHANNA	D5	4.6
WALNUT	D3	4.6
DELAMO	D6	4.6
ELLIS	D9	4.5
BARRE	D5	4.6

LA Basin - Trajectory Scenario

ETIWANDA	D5	4.5
CHINO	D5	4.6
CENTER	D2	4.6
BARRE	D4	4.6
LAGUBELL	D2	4.6
CHINO	D4	4.6
CHINO	D3	4.6
LITEHIPE	D4	4.6
JOHANNA	D4	4.6
ETIWANDA	D4	4.5
SANTIAGO	D4	4.5
BARRE	D3	4.6
ELLIS	D2	4.5
ETIWANDA	D3	4.5
RIOHONDO	D6	4.6
DELAMO	D4	4.6
PADUA	D1	4.6
RIOHONDO	D5	4.6
CHINO	D1	4.6
JOHANNA	D3	4.6
OLINDA	D3	4.6
DELAMO	D2	4.6
JOHANNA	D2	4.6
JOHANNA	D1	4.5
VILLA PK	D2	4.6
RIOHONDO	D4	4.6
BARRE	D2	4.6
MIRALOMA	D2	4.5
EAGLROCK	D1	4.6
HARBOR	F1	1.6
DEVERS	F1	10.4
ALAMT1 G	1	170
ALAMT2 G	2	175
ALAMT3 G	3	320
ALAMT4 G	4	320
ALAMT5 G	5	480
ALAMT6 G	6	475
ALAMT7 G	R7	0
ANAHEIMG	1	50
ARCO 1G	1	80
ARCO 2G	2	80
ARCO 3G	3	80
ARCO 4G	4	80
ARCO 5G	5	40
ARCO 6G	6	40
BRIGEN	1	33
CARBGEN1	1	15

CHEVGEN1		1	38
CHEVGEN2		2	38
DELGEN		1	45
DVLCYN1G		1	37.4
DVLCYN2G		2	37.3
DVLCYN3G		3	37.4
DVLCYN4G		4	37.3
ELSEG3 G		3	0
ELSEG4 G		4	0
MTNVIST3		3	0
MTNVIST4		4	0
HINSON		1	47
HUNT1 G		1	215
HUNT2 G		2	215
ICEGEN	D1		46
INLAND		1	30
LBEACH12		2	55
LBEACH34		3	55
MOBGEN1		1	21
OLINDA		1	0
REDON5 G		5	0
REDON6 G		6	0
REDON7 G		7	0
REDON8 G		8	0
S.ONOFR2		2	1122
S.ONOFR3		3	1124
VSTA		1	0
ETI MWDG		1	20.1
ESRP P1		2	0
ESRP P1		3	0
ESRP P1		4	0
ESRP P2		6	0
ESRP P2		7	0
ESRP P2		8	0
ESRP P3		10	0
ESRP P3		11	0
ESRP P3		12	0
SANTIAGO		1	17
HARBOR G		1	90
HARBORG4	LP		14
HARBOR G	HP		14
PASADNA1		1	25
PASADNA2		1	25
BRODWYSC		1	65
MNTV-CT1		1	150
MNTV-CT2		1	150
MNTV-ST1		1	225

MNTV-CT3		1	155
MNTV-CT4		1	84
MNTV-ST2		1	0
IIEC-G1		1	0
IIEC-G2		2	0
EME WCG1		1	100
EME WCG3		1	100
EME WCG4		1	100
EME WCG5		1	100
EME WCG2		1	100
TOT139G1		1	0
TOT139G2		2	0
TOT139G3		3	0
TERAWND	QF		6.8
CAPWIND	QF		6
BUCKWND	W5		1.1
BUCKWND	QF		5.1
ALTWIND	Q1		9.9
ALTWIND	Q2		4.5
RENWIND	Q1		1.9
RENWIND	Q2		2
TRANWND	QF		12
SEAWIND	QF		8.1
PANAERO	QF		9
VENWIND	EU		5.1
VENWIND	Q2		5.8
VENWIND	Q1		7.7
SANWIND	Q2		8.4
SANWIND	Q1		0.9
WINTECX2		1	45.3
WINTECX1		1	45.3
WINTEC8		1	45.3
GARNET	QF		30.4
RENWIND	W1		2.7
GARNET	W3		3.5
GARNET	W2		2
GARNET	PC		0.6
GARNET	G1		2.6
GARNET	G2		0.9
GARNET	G3		2
WINTEC4		1	0
MOUNTWND	S1		13.3
MOUNTWND	S3		6.7
MOUNTWND	S2		6.7
WHITEWTR		1	19.8
ALTAMSA4		1	40
CABAZON		1	12.8

WINTEC6		1	13.5
MALBRG3G	S3		50
MALBRG2G	C2		43
MALBRG1G	C1		43
RERC1G		1	48
RERC2G		1	48
SPRINGEN		1	44
ETWPKGEN		1	44.5
MRLPKGEN		1	45
CTRPKGEN		1	47.1
BARPKGEN		1	47.9
NRG ELG5		1	175
NRG ELG6		1	175
NRG ELS7		1	280
REFUSE	D1		9.8
CLTNDREW		1	47.2
CLTNCTRY		1	47.2
CLTNAGUA		1	45
MJVSPHN1		1	15
MJVSPHN2		2	15
MJVSPHN3		3	15
CIMGEN	D1		25.3
HILLGEN	D1		51.6
SERRFGEN	D1		20.2
SIMPSON	D1		37
LBEACH12		1	55
LBEACH34		4	55
LBEACH5G	R5		0
LBEACH6G	R6		0
SANIGEN	D1		6.7
ORCOGEN		1	0
THUMSGEN		1	40
CARBGEN2		1	15
MOBGEN2		1	0
OUTFALL1		1	0
OUTFALL2		1	0
PALOGEN	D1		3.6
VENICE		1	0
COYGEN		1	18
FEDGEN		1	22
CLEARGEN		1	0
DELGEN		1	30
SIGGEN	D1		23.9
RERC2G3		1	50
RERC2G4		1	50
CanyonGT		1	48.5
CanyonGT		2	48.5

LA Basin - Trajectory Scenario

CanyonGT	3	48.5
CanyonGT	4	48.5
TOT032G1	1	105
TOT032G2	1	105
TOT032G3	1	105
TOT032G4	1	105
TOT032G5	1	105
TOT032G6	1	105
TOT032G7	1	105
TOT032G8	1	105
TOT185GN	1	0
WDT213G1	1	4.7
WDT213G2	1	4.9

10742.4



ALL LINES IN SERVICE

Flo	directic	FNAME	FKV	TNAME	TKV	CK	P
-1		DEVERS		500 RedBluff	500	500	2 -1413.3
-1		DEVERS		500 RedBluff	500	500	1 -1413.3
-1		MIRALOM,		500 VINCENT	500	500	1 -804.7
-1		EAGLROCK		230 SYLMAR S	230	230	1 -645.4
-1		GOULD		230 SYLMAR S	230	230	1 -627.9
-1		RIOHOND		230 VINCENT	230	230	1 -600.5
-1		RIOHOND		230 VINCENT	230	230	2 -597.8
-1		MESA CAL		230 VINCENT	230	230	2 -564.8
-1		MESA CAL		230 VINCENT	230	230	1 -558.3
-1		MIRAGE		230 J.HINDS	230	230	1 -338.3
1		TALEGA		230 S.ONOFRE	230	230	1 -278.2
1		SANLUSRY		230 S.ONOFRE	230	230	1 -212.2
1		SANLUSRY		230 S.ONOFRE	230	230	2 -153.7
1		SANLUSRY		230 S.ONOFRE	230	230	3 -148.7
-1		S.ONOFRE		230 CAPSTRNO	230	230	1 170.9
1		RAMON		230 MIRAGE	230	230	1 325.2
1		COACHELV		230 MIRAGE	230	230	1 406.7
1		LUGO		500 MIRALOM,	500	500	3 1473.5
1		LUGO		500 MIRALOM,	500	500	2 1506.3
1		LUGO		500 RANCHOVST	500	500	1 1805.9

12118.2

LIMITING CONTINGENCY

-1		DEVERS		500 RedBluff	500	500	1 -1476.7
-1		DEVERS		500 RedBluff	500	500	2 -1476.7
-1		EAGLROCK		230 SYLMAR S	230	230	1 -1069.7
-1		MIRALOM,		500 VINCENT	500	500	1 -920
-1		RIOHOND		230 VINCENT	230	230	1 -640.3
-1		RIOHOND		230 VINCENT	230	230	2 -637.7
-1		MESA CAL		230 VINCENT	230	230	2 -606.7
-1		MESA CAL		230 VINCENT	230	230	1 -599.4
-1		MIRAGE		230 J.HINDS	230	230	1 -357.9
1		TALEGA		230 S.ONOFRE	230	230	1 -271.8
1		SANLUSRY		230 S.ONOFRE	230	230	1 -184.6
1		SANLUSRY		230 S.ONOFRE	230	230	2 -133.6
1		SANLUSRY		230 S.ONOFRE	230	230	3 -129.3
-1		S.ONOFRE		230 CAPSTRNO	230	230	1 168.7
1		RAMON		230 MIRAGE	230	230	1 332.1
1		COACHELV		230 MIRAGE	230	230	1 410.1
1		LUGO		500 MIRALOM,	500	500	3 1372.8
1		LUGO		500 MIRALOM,	500	500	2 1403.5
1		LUGO		500 RANCHOVST	500	500	1 1711.3

12126.9

LA Basin - Trajectory Scenario

gen	10742
import	12127
load	22869

Western LA Basin - Environmental Scenario

GenName	ID	Pgen
=====	=====	=====
LAGUBELL	RT	38.5
GOODRICH	RT	10.4
RIOHONDO	RT	11.3
LWIS ANM	RT	64
LA FRESA	10	3.9
VILLA PK	D9	0.5
LCIENEGA	D9	1.4
ELLIS	D7	1
HINSON	D8	2.3
JOHANNA	D6	4.7
LA FRESA	D9	4.8
WALNUT	D9	6.4
MESA CAL	D8	5.1
VILLA PK	D8	9.9
LA FRESA	D8	4
ELLIS	12	7.2
LAGUBELL	D5	18.3
BARRE	11	4.4
LA FRESA	D7	9
OLINDA	D7	3.7
BARRE	10	6.6
ELLIS	11	9.7
LCIENEGA	D8	0.9
LITEHIPE	10	3.4
ELLIS	10	3.3
CENTER	D7	5.7
HINSON	D7	4.5
ALMITOSW	D3	8.6
DELAMO	D9	2.6
ELLIS	D6	1.4
LITEHIPE	D9	1.6
BARRE	D9	10.6
EL NIDO	D5	6.9
HINSON	D6	1.6
LCIENEGA	D7	1.5
SANTIAGO	10	5.5
LCIENEGA	D6	4.3
CENTER	D6	14.8
MESA CAL	D7	2.6
LA FRESA	D6	3.8
RIOHONDO	D9	8.1
RIOHONDO	D8	3.3
MESA CAL	D6	1.9
MESA CAL	D5	3.8
LAGUBELL	D4	2.3
WALNUT	D8	15.5
WALNUT	D7	10.2
WALNUT	D6	7.9
VILLA PK	D7	12.9
CENTER	D5	1.6

## Western LA Basin - Environmental Scenario

HINSON	D5	3.3
OLINDA	D6	2.9
VILLA PK	D6	14.2
OLINDA	D5	2.8
ELLIS	D5	6
LITEHIPE	D8	2.4
WALNUT	D5	12.8
SANTIAGO	D9	4.6
MESA CAL	D4	0.6
HINSON	D4	2.5
MESA CAL	D3	5.4
CENTER	D4	4.9
LCIENEGA	D5	1.7
SANTIAGO	D8	4.4
SANTIAGO	D7	0.4
VILLA PK	D5	0.1
MESA CAL	D2	1.9
WALNUT	D4	1.3
LA FRESA	D5	1.2
BARRE	D8	8.5
LCIENEGA	D4	4.7
SANTIAGO	D6	2.3
DELAMO	D8	0.8
HINSON	D3	2.3
LITEHIPE	D7	0.1
EL NIDO	D4	1.6
RIOHONDO	D7	6.8
BARRE	D7	5.8
LAGUBELL	D3	11.7
ELLIS	D4	3.9
VILLA PK	D4	1.9
BARRE	D6	2.2
DELAMO	D7	6.2
OLINDA	D4	17
LA FRESA	D4	5.1
GOULD	D3	3.3
JOHANNA	D5	10.5
LITEHIPE	D6	4.5
SANTIAGO	D5	3.8
EL NIDO	D3	1.5
WALNUT	D3	11.2
CENTER	D3	4.8
ALMITOSW	D2	2.2
ELLIS	D3	1.6
DELAMO	D6	8.5
GOULD	D2	1
ELLIS	D9	5.3
BARRE	D5	7.2
CENTER	D2	9.9
BARRE	D4	10.9
LAGUBELL	D2	7.6
LITEHIPE	D5	4.9

Western LA Basin - Environmental Scenario

LITEHIPE	D4	6.8
EL NIDO	D2	0.8
JOHANNA	D4	9
EAGLROCK	D2	4.8
SANTIAGO	D4	8.4
DELAMO	D5	2.6
BARRE	D3	9.8
ELLIS	D2	5.6
EL NIDO	D1	2.7
MESA CAL	D1	0.8
LA FRESA	D3	2.7
RIOHONDO	D6	6.6
DELAMO	D4	6.1
LCIENEGA	D3	2.6
LAGUBELL	D1	3.5
SANTIAGO	D3	1.1
LA FRESA	D2	3
WALNUT	D2	4.6
DELAMO	D3	0.1
LCIENEGA	D2	10.1
RIOHONDO	D5	4.9
JOHANNA	D3	8.4
CENTER	D1	3.1
LITEHIPE	D3	3.7
OLINDA	D3	6.6
DELAMO	D2	12.9
VILLA PK	D3	2.2
HINSON	D2	1.6
JOHANNA	D2	5.3
JOHANNA	D1	5.2
LITEHIPE	D2	1.5
VILLA PK	D2	9.1
ELLIS	D8	2.3
ALMITOSW	D1	0.1
LA FRESA	D1	3.8
OLINDA	D2	3.8
RIOHONDO	D4	8.6
HINSON	D1	1.1
DELAMO	D1	1.4
SANTIAGO	D2	1.1
BARRE	D2	8.8
LCIENEGA	D1	9.4
ELLIS	D1	2.3
WALNUT	D1	1.1
BARRE	D1	3.2
VILLA PK	D1	4
GOULD	D1	2.7
RIOHONDO	D3	3.1
RIOHONDO	D2	3.3
RIOHONDO	D1	2.4
LITEHIPE	D1	1.9
EAGLROCK	D1	4.9

Western LA Basin - Environmental Scenario

HARBOR	F1		2
ALAMT1 G		1	0
ALAMT2 G		2	0
ALAMT3 G		3	140
ALAMT4 G		4	320
ALAMT5 G		5	480
ALAMT6 G		6	480
ANAHEIMG		1	50
ARCO 1G		1	56
ARCO 2G		2	56
ARCO 3G		3	56
ARCO 4G		4	56
ARCO 5G		5	28
ARCO 6G		6	28
BRIGEN		1	0
CARBGEN1		1	15
CHEVGEN1		1	0.2
CHEVGEN2		2	0.2
HINSON		1	0
HUNT1 G		1	225
HUNT2 G		2	225
ICEGEN	D1		46
LBEACH12		2	65
LBEACH34		3	65
MOBGEN1		1	21
OLINDA		1	6
REDON5 G		5	0
REDON6 G		6	0
REDON7 G		7	0
REDON8 G		8	0
SANTIAGO		1	4.2
HARBOR G		1	76
HARBORG4	LP		11
HARBOR G	HP		11
PASADNA1		1	22
PASADNA2		1	22
BRODWYSC		1	65
EME WCG1		1	100
EME WCG3		1	100
EME WCG4		1	100
EME WCG5		1	100
EME WCG2		1	100
MALBRG3G	S3		49
MALBRG2G	C2		42
MALBRG1G	C1		42
CTRPKGEN		1	44
BARPKGEN		1	45
NRG ELG5		5	150
NRG ELG6		6	150
NRG ELS7		7	270
REFUSE	D1		9.8
HILLGEN	D1		51.6

Western LA Basin - Environmental Scenario

SERRFGEN	D1		27
LBEACH12		1	65
LBEACH34		4	65
THUMSGEN		1	0
CARBGEN2		1	15
MOBGEN2		1	20
PALOGEN	D1		3.6
COYGEN		1	18
FEDGEN		1	0
SIGGEN	D1		23.9
CanyonGT		1	60
CanyonGT		2	60
CanyonGT		3	60
CanyonGT		4	60
S.ONOFR2		2	1070
S.ONOFR3		3	1080
VIEJO66	D4		5.4
VIEJO66	D3		4
VIEJO66	D2		15.6
VIEJO66	D1		0.4
			7494.6

TPP report Table 3.3-22 (Testimony Table 3) counted 2013 NQC for SONGS

TPP report Table 3.3-25 (Testimony Table 6) did not count Viejo

## ALL LINES IN SERVICE

Flo directic	FNAME	FKV	TNAME	TKV	CK	P
-1	OLINDA		230 MIRALOMI	230	1	-628.3
-1	RIOHOND		230 VINCENT	230	1	-591.7
-1	RIOHOND		230 VINCENT	230	2	-589.4
-1	EAGLROCK		230 SYLMAR S	230	1	-588.5
-1	GOULD		230 SYLMAR S	230	1	-573.5
-1	MESA CAL		230 VINCENT	230	2	-556.6
-1	MESA CAL		230 VINCENT	230	1	-550
1	TALEGA		230 S.ONOFRE	230	1	-265.3
1	SANLUSRY		230 S.ONOFRE	230	1	-160
1	SANLUSRY		230 S.ONOFRE	230	2	-115.9
1	SANLUSRY		230 S.ONOFRE	230	3	-112.2
-1	S.ONOFRE		230 SERRANO	230	1	9.8
-1	S.ONOFRE		230 CAPSTRNO	230	1	166.4
1	CHINO		230 VIEJOSC	230	1	348.5
1	MIRALOM		230 WALNUT	230	1	420.2
1	SERRANO		230 LEWIS	230	1	432.3
1	SERRANO		230 LEWIS	230	2	432.3
1	SERRANO		230 VILLAPK	230	2	732.4
1	SERRANO		230 VILLAPK	230	1	732.4
						6346.5

## LIMITING CONTINGENCY

-1	OLINDA		230 MIRALOMI	230	1	-644.6
-1	RIOHOND		230 VINCENT	230	1	-598.6
-1	RIOHOND		230 VINCENT	230	2	-596.3
-1	EAGLROCK		230 SYLMAR S	230	1	-596.1
-1	GOULD		230 SYLMAR S	230	1	-580.9
-1	MESA CAL		230 VINCENT	230	2	-564.9
-1	MESA CAL		230 VINCENT	230	1	-558.2
1	TALEGA		230 S.ONOFRE	230	1	-264.7
1	SANLUSRY		230 S.ONOFRE	230	1	-157.4
1	SANLUSRY		230 S.ONOFRE	230	2	-114.1
1	SANLUSRY		230 S.ONOFRE	230	3	-110.4
-1	S.ONOFRE		230 SERRANO	230	1	-11.8
-1	S.ONOFRE		230 CAPSTRNO	230	1	166.2
1	CHINO		230 VIEJOSC	230	1	356.7
1	MIRALOM		230 WALNUT	230	1	434.4
1	SERRANO		230 LEWIS	230	2	764.7
1	SERRANO		230 VILLAPK	230	1	1455.1
						6349.5



import	6349
gen	7495
load	13844

GenName	ID	Pgen
=====	=====	=====
LAGUBELL	RT	4.6
LWIS ANM	RT	4.5
JOHANNA	D6	4.5
WALNUT	D9	4.6
MESA CAL	D8	4.6
VILLA PK	D8	4.6
ELLIS		12 4.6
LAGUBELL	D5	4.6
BARRE		10 4.6
ELLIS		11 4.5
CENTER	D7	4.5
ALMITOSW	D3	4.6
BARRE	D9	4.5
EL NIDO	D5	4.6
SANTIAGO		10 4.5
CENTER	D6	4.6
RIOHONDO	D9	4.6
WALNUT	D8	4.6
WALNUT	D7	4.6
WALNUT	D6	4.6
VILLA PK	D7	4.6
VILLA PK	D6	4.6
ELLIS	D5	4.6
WALNUT	D5	4.6
MESA CAL	D3	4.6
CENTER	D4	4.6
BARRE	D8	4.6
RIOHONDO	D7	4.6
BARRE	D7	4.6
LAGUBELL	D3	4.6
DELAMO	D7	4.6
OLINDA	D4	4.6
JOHANNA	D5	4.6
WALNUT	D3	4.6
DELAMO	D6	4.6
ELLIS	D9	4.5
BARRE	D5	4.6
CENTER	D2	4.6
BARRE	D4	4.6
LAGUBELL	D2	4.6
LITEHIPE	D4	4.6
JOHANNA	D4	4.6
SANTIAGO	D4	4.5
BARRE	D3	4.6
ELLIS	D2	4.5

Western LA Basin - Trajectory Scenario

RIOHONDO	D6		4.6
DELAMO	D4		4.6
RIOHONDO	D5		4.6
JOHANNA	D3		4.6
OLINDA	D3		4.6
DELAMO	D2		4.6
JOHANNA	D2		4.6
JOHANNA	D1		4.5
VILLA PK	D2		4.6
RIOHONDO	D4		4.6
BARRE	D2		4.6
EAGLROCK	D1		4.6
HARBOR	F1		1.6
ALAMT1 G		1	170
ALAMT2 G		2	175
ALAMT3 G		3	320
ALAMT4 G		4	320
ALAMT5 G		5	480
ALAMT6 G		6	475
ANAHEIMG		1	50
ARCO 1G		1	80
ARCO 2G		2	80
ARCO 3G		3	80
ARCO 4G		4	80
ARCO 5G		5	40
ARCO 6G		6	40
BRIGEN		1	33
CARBGEN1		1	15
CHEVGEN1		1	38
CHEVGEN2		2	38
HINSON		1	47
HUNT1 G		1	215
HUNT2 G		2	215
ICEGEN	D1		46
LBEACH12		2	55
LBEACH34		3	55
MOBGEN1		1	21
OLINDA		1	0
REDON5 G		5	0
REDON6 G		6	0
REDON7 G		7	0
REDON8 G		8	0
SANTIAGO		1	17
HARBOR G		1	90
HARBORG4	LP		14
HARBOR G	HP		14
PASADNA1		1	25

Western LA Basin - Trajectory Scenario

PASADNA2		1	25
BRODWYSC		1	65
EME WCG1		1	100
EME WCG3		1	100
EME WCG4		1	100
EME WCG5		1	100
EME WCG2		1	100
MALBRG3G	S3		50
MALBRG2G	C2		43
MALBRG1G	C1		43
CTRPKGEN		1	47.1
BARPKGEN		1	47.9
NRG ELG5		1	175
NRG ELG6		1	175
NRG ELS7		1	280
REFUSE	D1		9.8
HILLGEN	D1		51.6
SERRFGEN	D1		20.2
LBEACH12		1	55
LBEACH34		4	55
THUMSGEN		1	40
CARBGEN2		1	15
MOBGEN2		1	0
PALOGEN	D1		3.6
COYGEN		1	18
FEDGEN		1	22
SIGGEN	D1		23.9
CanyonGT		1	48.5
CanyonGT		2	48.5
CanyonGT		3	48.5
CanyonGT		4	48.5
S.ONOFR2		2	1122
S.ONOFR3		3	1124
VIEJO66	D4		4.5
VIEJO66	D2		4.5

7804.9

## ALL LINES IN SERVICE

Flo directio	FNAME	FKV	TNAME	TKV	CK	P
-1	OLINDA		230 MIRALOME	230		1 -646.9
-1	RIOHONDC		230 VINCENT	230		1 -562.5
-1	RIOHONDC		230 VINCENT	230		2 -560
-1	EAGLROCK		230 SYLMAR S	230		1 -541.6
-1	GOULD		230 SYLMAR S	230		1 -529.3
-1	MESA CAL		230 VINCENT	230		2 -512.8
-1	MESA CAL		230 VINCENT	230		1 -507
0	MIRALOM/		500 VINCENT	500		1 -504.9
1	TALEGA		230 S.ONOFRE	230		1 -277.4
1	SANLUSRY		230 S.ONOFRE	230		1 -208.7
1	SANLUSRY		230 S.ONOFRE	230		2 -151.2
1	SANLUSRY		230 S.ONOFRE	230		3 -146.3
-1	S.ONOFRE		230 SERRANO	230		1 -9.9
-1	S.ONOFRE		230 CAPSTRNO	230		1 170.7
1	CHINO		230 VIEJOSC	230		1 361.4
1	MIRALOM\		230 WALNUT	230		1 428.4
1	SERRANO		230 LEWIS	230		2 434.6
1	SERRANO		230 LEWIS	230		1 434.6
1	SERRANO		230 VILLA PK	230		1 729.6
1	SERRANO		230 VILLA PK	230		2 729.6

6033.9

## LIMITING CONTINGENCY

Flo directio	FNAME	FKV	TNAME	TKV	CK	P
-1	OLINDA		230 MIRALOME	230		1 -663.1
-1	RIOHONDC		230 VINCENT	230		1 -569.5
-1	RIOHONDC		230 VINCENT	230		2 -567
-1	EAGLROCK		230 SYLMAR S	230		1 -549.2
-1	GOULD		230 SYLMAR S	230		1 -536.8
-1	MESA CAL		230 VINCENT	230		2 -521.2
-1	MESA CAL		230 VINCENT	230		1 -515.3
0	MIRALOM/		500 VINCENT	500		1 -493.1
1	TALEGA		230 S.ONOFRE	230		1 -276.8
1	SANLUSRY		230 S.ONOFRE	230		1 -206.1
1	SANLUSRY		230 S.ONOFRE	230		2 -149.3
1	SANLUSRY		230 S.ONOFRE	230		3 -144.5
-1	S.ONOFRE		230 SERRANO	230		1 -31.3
-1	S.ONOFRE		230 CAPSTRNO	230		1 170.5
1	CHINO		230 VIEJOSC	230		1 369.6
1	MIRALOM\		230 WALNUT	230		1 442.5
1	SERRANO		230 LEWIS	230		2 767.1

Western LA Basin - Trajectory Scenario

1 SERRANO	230 VILLA PK	230	1	1451.7
				6037.1

IMPORTS	6037
GEN	7805
LOAD + Losses	13842

GenName	ID	Pgen
=====	=====	=====
LEWIS	C2	5.5
LEWIS	C1	1
WALNUT	CH	1.9
SANTIAGO	CH	10
RIOHONDO	C2	2.8
RIOHONDO	C1	5.9
REDONDO	CH	4.5
OLINDA	CH	2.4
MESA CAL	CH	1.1
LCIENEGA	CH	70.6
LBEACH	CH	29.4
LAGUBELL	C4	4.7
LAGUBELL	C3	1.1
LAGUBELL	C2	1.1
LAGUBELL	C1	1.5
LA FRESA	CH	8.8
ELSEGND	CH	5.2
ELLIS	CH	4.2
EL NIDO	CH	35.2
EAGLROCK	CH	2.5
CHINO	CH	9.5
LAGUBELL	RT	38.5
HOMART	RT	7.8
GOODRICH	RT	10.4
MIRALOMA	RT	2.7
RIOHONDO	RT	11.3
LWIS ANM	RT	64
ZANJA	D1	0.1
LA FRESA		10 3.9
SANBRDNO	D9	4.2
VILLA PK	D9	0.5
LCIENEGA	D9	1.4
ETIWANDA	D7	13.4
ELLIS	D7	1
HINSON	D8	2.3
JOHANNA	D6	4.7
LA FRESA	D9	4.8
WALNUT	D9	6.4
MESA CAL	D8	5.1
VILLA PK	D8	9.9
VIEJO66	D4	5.4
LA FRESA	D8	4
ELLIS		12 7.2
VALLEYSC		10 2.6
LAGUBELL	D5	18.3



PADUA	D7		3.1
BARRE		11	4.4
LA FRESA	D7		9
SANBRDNO	D8		5.9
SANBRDNO	D7		2.7
OLINDA	D7		3.7
BARRE		10	6.6
ELLIS		11	9.7
LCIENEGA	D8		0.9
LITEHIPE		10	3.4
VALLEY-S	D7		1.3
ELLIS		10	3.3
CENTER	D7		5.7
VALLEYSC	D9		6
HINSON	D7		4.5
VALLEY-S	D6		6.4
ALMITOSW	D3		8.6
CHINO	D9		1.4
DELAMO	D9		2.6
ELLIS	D6		1.4
ALBERHIL	D5		3.5
LITEHIPE	D9		1.6
BARRE	D9		10.6
SHANDIN	D1		4.1
EL NIDO	D5		6.9
HINSON	D6		1.6
LCIENEGA	D7		1.5
SANTIAGO		10	5.5
LCIENEGA	D6		4.3
CENTER	D6		18.1
PADUA	D6		7.2
SANBRDNO	D6		3.1
PADUA	D5		7.8
MESA CAL	D7		2.6
LA FRESA	D6		3.8
RIOHONDO	D9		8.1
RIOHONDO	D8		3.3
MESA CAL	D6		1.9
SANBRDNO	D5		3.3
MESA CAL	D5		3.8
LAGUBELL	D4		2.3
ETIWANDA	D6		6.7
WALNUT	D8		15.5
WALNUT	D7		10.2
WALNUT	D6		7.9
VILLA PK	D7		12.9
CENTER	D5		1.6

LA Basin - Sensitivity - Environmental Scenario

HINSON	D5	3.3
CHINO	D8	10.6
PEPPER	D1	3
MIRALOMA	D8	2.5
VALLEY-S	D5	3.9
VALLEY-S	D4	2.3
OLINDA	D6	2.9
PADUA	D4	3
VILLA PK	D6	14.2
VIEJO66	D3	4
OLINDA	D5	2.8
ELLIS	D5	6
LITEHIPE	D8	2.4
MIRALOME	CH	2.4
ETIWANDA	CH	8
WALNUT	D5	12.8
SANTIAGO	D9	4.6
MESA CAL	D4	0.6
ALBERHIL	D4	6.5
HINSON	D4	2.5
VALLEYS	D8	4.3
VALLEYS	D7	3.2
MESA CAL	D3	5.4
CHINO	D7	4.2
CENTER	D4	4.9
LCIENEGA	D5	1.7
SANTIAGO	D8	4.4
SANTIAGO	D7	0.4
VALLEYS	D6	2.5
VALLEY-S	D3	6.1
VILLA PK	D5	0.1
MIRALOMA	D7	3.9
CHINO	D6	19.9
MESA CAL	D2	1.9
WALNUT	D4	1.3
VALLEYS	D5	3.9
VSTA	D2	5.3
LA FRESA	D5	1.2
BARRE	D8	8.5
LCIENEGA	D4	4.7
MARASCHI	D1	2.8
SANTIAGO	D6	2.3
DELAMO	D8	0.8
HINSON	D3	2.3
PADUA	D3	3.5
VIEJO66	D2	15.6
LITEHIPE	D7	0.1

LA Basin - Sensitivity - Environmental Scenario

EL NIDO	D4	1.6
PADUA	D2	6.8
RIOHONDO	D7	6.8
BARRE	D7	5.8
LAGUBELL	D3	11.7
ELLIS	D4	3.9
VILLA PK	D4	1.9
BARRE	D6	2.2
DELAMO	D7	6.2
OLINDA	D4	17
LA FRESA	D4	5.1
GOULD	D3	3.3
JOHANNA	D5	10.5
LITEHIPE	D6	4.5
MIRALOMA	D6	0.4
ALBERHIL	D3	0
SANTIAGO	D5	3.8
EL NIDO	D3	1.5
WALNUT	D3	11.2
CENTER	D3	4.8
HOMART	D1	2.1
SANBRDNO	D4	5.6
ALMITOSW	D2	2.2
ELLIS	D3	1.6
DELAMO	D6	8.5
GOULD	D2	1
VSTA	D4	1.4
ELLIS	D9	5.3
BARRE	D5	7.2
ETIWANDA	D5	4.9
CHINO	D5	8.9
CENTER	D2	9.9
BARRE	D4	10.9
LAGUBELL	D2	7.6
LITEHIPE	D5	4.9
CHINO	D4	9
CHINO	D3	14.2
LITEHIPE	D4	6.8
EL NIDO	D2	0.8
JOHANNA	D4	9
EAGLROCK	D2	4.8
ETIWANDA	D4	9
SANTIAGO	D4	8.4
DELAMO	D5	2.6
BARRE	D3	9.8
ALBERHIL	D2	3.3
ALBERHIL	D1	3.3

LA Basin - Sensitivity - Environmental Scenario

ELLIS	D2	5.6
EL NIDO	D1	2.7
MESA CAL	D1	0.8
LA FRESA	D3	2.7
CHINO	D2	3.3
SANBRDNO	D3	4.9
ETIWANDA	D3	16
RIOHONDO	D6	6.6
DELAMO	D4	6.1
LCIENEGA	D3	2.6
LAGUBELL	D1	3.5
PADUA	D1	9.7
SANTIAGO	D3	1.1
LA FRESA	D2	3
WALNUT	D2	4.6
MIRALOMA	D5	3.5
MIRALOMA	D4	2.4
DELAMO	D3	0.1
VSTA	D3	2.4
LCIENEGA	D2	10.1
RIOHONDO	D5	4.9
VIEJO66	D1	0.4
CHINO	D1	16.5
JOHANNA	D3	8.4
MIRALOMA	D3	1.6
CENTER	D1	3.1
LITEHIPE	D3	3.7
OLINDA	D3	6.6
DELAMO	D2	12.9
SANBRDNO	D2	5.5
SANBRDNO	D1	4.4
SANBRDNO	CH	0.2
VILLA PK	D3	2.2
HINSON	D2	1.6
JOHANNA	D2	5.3
CAL ELEC	D1	6.5
JOHANNA	D1	5.2
VALLEYSC	D4	3
LITEHIPE	D2	1.5
VILLA PK	D2	9.1
ELLIS	D8	2.3
ALMITOSW	D1	0.1
LA FRESA	D1	3.8
OLINDA	D2	3.8
RIOHONDO	D4	8.6
HINSON	D1	1.1
DELAMO	D1	1.4

LA Basin - Sensitivity - Environmental Scenario

SANTIAGO	D2	1.1
BARRE	D2	8.8
VSTA	D2	7.7
LCIENEGA	D1	9.4
ELLIS	D1	2.3
WALNUT	D1	1.1
BARRE	D1	3.2
BANNING	D1	16.8
MIRALOMA	D2	7.3
VALLEY-S	D2	4.8
VALLEY-S	D1	2.8
VILLA PK	D1	4
GOULD	D1	2.7
ETIWANDA	D2	4.7
MIRALOMA	D1	1.1
RIOHONDO	D3	3.1
RIOHONDO	D2	3.3
RIOHONDO	D1	2.4
LITEHIPE	D1	1.9
EAGLROCK	D1	4.9
VALLEYS	D3	4.5
VALLEYS	D2	2.2
ETIWANDA	D1	0.3
TAMARISK	D1	4.9
SANTA RO	D2	4.7
SANTA RO	D1	3.9
INDIAN W	D1	4.3
GARNET	D1	5.5
FARREL	D1	3.5
CONCHO	D1	2.7
CARODEAN	D1	0.5
VSTA	D1	2.6
VALLEYS	E3	12
CHINO	E2	10.2
VALLEYS	E2	12
YUCCA	E1	9.6
EL CASCO	E2	12
SANTA RO	E1	12
MARASCHI	E1	12
ZANJA	E1	12
BANNING	E1	12
EL CASCO	E1	12
VALLEYS	E1	12
CHINO	E1	10.2
HARBOR	F1	2
DEVERS	F1	5.8
ALAMT1 G	1	175

LA Basin - Sensitivity - Environmental Scenario

ALAMT2 G		2	175
ALAMT3 G		3	240
ALAMT4 G		4	0
ALAMT5 G		5	0
ALAMT6 G		6	0
ALAMT7 G	R7		0
ANAHEIMG		1	50
ARCO 1G		1	54.2
ARCO 2G		2	54.2
ARCO 3G		3	54.2
ARCO 4G		4	54.2
ARCO 5G		5	27.1
ARCO 6G		6	27.1
BRIGEN		1	33
CARBGEN1		1	11
CHEVGEN1		1	0
CHEVGEN2		2	0
DELGEN		1	45
DVLCYN1G		1	37.4
DVLCYN2G		2	37.3
DVLCYN3G		3	37.4
DVLCYN4G		4	37.3
MTNVIST3		3	0
MTNVIST4		4	0
HINSON		1	47
HUNT1 G		1	226
HUNT2 G		2	226
ICEGEN	D1		46.6
INLAND		1	30.3
LBEACH12		2	65
LBEACH34		3	65
MOBGEN1		1	21
OLINDA	CH		4.5
REDON5 G		5	0
REDON6 G		6	0
REDON7 G		7	0
REDON8 G		8	0
MTNVIEW1	R1		0
MTNVIEW2	R2		0
S.ONOFR2		2	1122
S.ONOFR3		3	1124
VSTA		1	0
ETI MWDG		1	20.1
ESRP P1		2	0
ESRP P1		3	0
ESRP P1		4	0
ESRP P2		6	0

LA Basin - Sensitivity - Environmental Scenario

ESRP P2		7	0
ESRP P2		8	0
ESRP P3		10	0
ESRP P3		11	0
ESRP P3		12	0
SANTIAGO		1	17
HARBOR G		1	90
HARBORG4	LP		11.9
HARBOR G	HP		10
VALLEYS	CH		0.5
PASADNA1		1	25
PASADNA2		1	25
BRODWYSC		1	65
DEVRSVC1		1	0
MNTV-CT1		1	129.7
MNTV-CT2		1	0
MNTV-ST1		1	0
MNTV-CT3		1	0
MNTV-CT4		1	0
MNTV-ST2		1	0
IEEC-G1		1	230
IEEC-G2		2	0
EME WCG1		1	25
EME WCG3		1	0
EME WCG4		1	0
EME WCG5		1	0
EME WCG2		1	100
TOT139G1		1	0
TOT139G2		2	0
TOT139G3		3	0
TERAWND	QF		3.8
CAPWIND	QF		3.3
BUCKWND	W5		0.6
BUCKWND	QF		2.8
ALTWIND	Q1		5.5
ALTWIND	Q2		2.5
RENWIND	Q1		1
RENWIND	Q2		1.1
TRANWND	QF		6.7
SEAWIND	QF		4.5
PANAERO	QF		5
VENWIND	EU		2.8
VENWIND	Q2		3.2
VENWIND	Q1		4.3
SANWIND	Q2		4.7
SANWIND	Q1		0.5
WINTECX2		1	45.3

LA Basin - Sensitivity - Environmental Scenario

WINTECX1		1	45.3
WINTEC8		1	45.3
GARNET	QF		16.9
RENWIND	W1		1.5
GARNET	W3		1.9
GARNET	W2		1.1
GARNET	PC		0.3
GARNET	G1		1.5
GARNET	G2		0.5
GARNET	G3		1.1
WINTEC4		1	0
MOUNTWND	S1		7.4
MOUNTWND	S3		3.7
MOUNTWND	S2		3.7
WHITEWTR		1	11
ALTAMSA4		1	40
CABAZON		1	7.1
WINTEC6		1	7.5
MALBRG3G	S3		50
MALBRG2G	C2		43
MALBRG1G	C1		43
RERC1G		1	48
RERC2G		1	48
SPRINGEN		1	44
ETWPKGEN		1	44.5
MRLPKGEN		1	45
CTRPKGEN		1	47.1
BARPKGEN		1	47.9
NRG ELG5		5	175
NRG ELG6		6	175
NRG ELS7		7	220
REFUSE	D1		9.8
CLTNDREW		1	47.2
CLTNCTRY		1	47.2
CLTNAGUA		1	45
MJVSPHN1		1	15
MJVSPHN2		2	15
MJVSPHN3		3	15
CIMGEN	D1		25.3
HILLGEN	D1		51.6
SERRFGEN	D1		28.4
SIMPSON	D1		27.2
LBEACH12		1	65
LBEACH34		4	65
SANIGEN	D1		6.7
ORCOGEN		1	0
THUMSGEN		1	0



LA Basin - Sensitivity - Environmental Scenario

CARBGEN2		1	10.5
MOBGEN2		1	24
OUTFALL1		1	0
OUTFALL2		1	0
PALOGEN	D1		3.6
VENICE		1	0
COYGEN		1	18
FEDGEN		1	22
CLEARGEN		1	28
DELGEN		1	29.8
SIGGEN	D1		23.9
RERC2G3		1	50
RERC2G4		1	50
CanyonGT		1	48.5
CanyonGT		2	48.5
CanyonGT		3	48.5
CanyonGT		4	48.5
TOT032G1		1	0
TOT032G2		1	0
TOT032G3		1	0
TOT032G4		1	0
TOT032G5		1	0
TOT032G6		1	0
TOT032G7		1	0
TOT032G8		1	0
TOT185GN		1	16.3
WDT213G1		1	2.6
WDT213G2		1	2.8

8807.6

ALL LINES IN SERVICE

Flo directic	FNAME	FKV	TNAME	TKV	CK	P
-1	DEVERS	500	RedBluff	500	2	-1257.4
-1	DEVERS	500	RedBluff	500	1	-1257.4
-1	MIRALOMA	500	VINCENT	500	1	-974.8
-1	EAGLROCK	230	SYLMAR S	230	1	-604.9
-1	RIOHONDO	230	VINCENT	230	1	-588.1
-1	RIOHONDO	230	VINCENT	230	2	-586.9
-1	MESA CAL	230	VINCENT	230	2	-583.9
-1	GOULD	230	SYLMAR S	230	1	-582.3
-1	MESA CAL	230	VINCENT	230	1	-576.2
-1	MIRAGE	230	J.HINDS	230	1	-392.7
1	TALEGA	230	S.ONOFRE	230	1	-241.4
1	SANLUSRY	230	S.ONOFRE	230	1	-144.1
1	SANLUSRY	230	S.ONOFRE	230	2	-104.1
1	SANLUSRY	230	S.ONOFRE	230	3	-100.7
-1	S.ONOFRE	230	CAPSTRNO	230	1	151
1	RAMON	230	MIRAGE	230	1	200.9
1	COACHELV	230	MIRAGE	230	1	232.6
1	LUGO	500	MIRALOMA	500	3	1516.1
1	LUGO	500	MIRALOMA	500	2	1550.5
1	LUGO	500	RANCHOVST	500	1	1945.9
						12109.3

LIMITING CONTINGENCY

-1	DEVERS	500	RedBluff	500	1	-1256.7
-1	DEVERS	500	RedBluff	500	2	-1256.7
-1	MIRALOMA	500	VINCENT	500	1	-931.2
-1	EAGLROCK	230	SYLMAR S	230	1	-622.2
-1	MESA CAL	230	VINCENT	230	2	-605.1
-1	RIOHONDO	230	VINCENT	230	1	-603.8
-1	RIOHONDO	230	VINCENT	230	2	-602.6
-1	GOULD	230	SYLMAR S	230	1	-598.3
-1	MESA CAL	230	VINCENT	230	1	-597.1
-1	MIRAGE	230	J.HINDS	230	1	-393.2
1	TALEGA	230	S.ONOFRE	230	1	-238
1	SANLUSRY	230	S.ONOFRE	230	1	-129.1
1	SANLUSRY	230	S.ONOFRE	230	2	-93.1
1	SANLUSRY	230	S.ONOFRE	230	3	-90.1
-1	S.ONOFRE	230	CAPSTRNO	230	1	149.8
1	RAMON	230	MIRAGE	230	1	198.9
1	COACHELV	230	MIRAGE	230	1	231.5
1	LUGO	500	MIRALOMA	500	3	1466.3
1	LUGO	500	MIRALOMA	500	2	1499.4
1	LUGO	500	RANCHOVST	500	1	1949.7
						12112.6

gen	8807
import	12112
load	20919

GenName	ID	Pgen
=====	=====	=====
LEWIS	C2	5.5
LEWIS	C1	1
WALNUT	CH	1.9
SANTIAGO	CH	10
RIOHONDO	C2	2.8
RIOHONDO	C1	5.9
REDONDO	CH	4.5
OLINDA	CH	2.4
MESA CAL	CH	1.1
LCIENEGA	CH	70.6
LBEACH	CH	29.4
LAGUBELL	C4	4.7
LAGUBELL	C3	1.1
LAGUBELL	C2	1.1
LAGUBELL	C1	1.5
LA FRESA	CH	8.8
ELSEGND	CH	5.2
ELLIS	CH	4.2
EL NIDO	CH	35.2
EAGLROCK	CH	2.5
LAGUBELL	RT	38.5
GOODRICH	RT	10.4
RIOHONDO	RT	11.3
LWIS ANM	RT	64
LA FRESA	10	3.9
VILLA PK	D9	0.5
LCIENEGA	D9	1.4
ELLIS	D7	1
HINSON	D8	2.3
JOHANNA	D6	4.7
LA FRESA	D9	4.8
WALNUT	D9	6.4
MESA CAL	D8	5.1
VILLA PK	D8	9.9
VIEJO66	D4	5.4
LA FRESA	D8	4
ELLIS	12	7.2
LAGUBELL	D5	18.3
BARRE	11	4.4
LA FRESA	D7	9
OLINDA	D7	3.7
BARRE	10	6.6
ELLIS	11	9.7
LCIENEGA	D8	0.9
LITEHIPE	10	3.4

ELLIS	10	3.3
CENTER	D7	5.7
HINSON	D7	4.5
ALMITOSW	D3	8.6
DELAMO	D9	2.6
ELLIS	D6	1.4
LITEHIPE	D9	1.6
BARRE	D9	10.6
EL NIDO	D5	6.9
HINSON	D6	1.6
LCIENEGA	D7	1.5
SANTIAGO	10	5.5
LCIENEGA	D6	4.3
CENTER	D6	18.1
MESA CAL	D7	2.6
LA FRESA	D6	3.8
RIOHONDO	D9	8.1
RIOHONDO	D8	3.3
MESA CAL	D6	1.9
MESA CAL	D5	3.8
LAGUBELL	D4	2.3
WALNUT	D8	15.5
WALNUT	D7	10.2
WALNUT	D6	7.9
VILLA PK	D7	12.9
CENTER	D5	1.6
HINSON	D5	3.3
OLINDA	D6	2.9
VILLA PK	D6	14.2
VIEJO66	D3	4
OLINDA	D5	2.8
ELLIS	D5	6
LITEHIPE	D8	2.4
WALNUT	D5	12.8
SANTIAGO	D9	4.6
MESA CAL	D4	0.6
HINSON	D4	2.5
MESA CAL	D3	5.4
CENTER	D4	4.9
LCIENEGA	D5	1.7
SANTIAGO	D8	4.4
SANTIAGO	D7	0.4
VILLA PK	D5	0.1
MESA CAL	D2	1.9
WALNUT	D4	1.3
LA FRESA	D5	1.2
BARRE	D8	8.5

LCIENEGA	D4	4.7
SANTIAGO	D6	2.3
DELAMO	D8	0.8
HINSON	D3	2.3
VIEJO66	D2	15.6
LITEHIPE	D7	0.1
EL NIDO	D4	1.6
RIOHONDO	D7	6.8
BARRE	D7	5.8
LAGUBELL	D3	11.7
ELLIS	D4	3.9
VILLA PK	D4	1.9
BARRE	D6	2.2
DELAMO	D7	6.2
OLINDA	D4	17
LA FRESA	D4	5.1
GOULD	D3	3.3
JOHANNA	D5	10.5
LITEHIPE	D6	4.5
SANTIAGO	D5	3.8
EL NIDO	D3	1.5
WALNUT	D3	11.2
CENTER	D3	4.8
ALMITOSW	D2	2.2
ELLIS	D3	1.6
DELAMO	D6	8.5
GOULD	D2	1
ELLIS	D9	5.3
BARRE	D5	7.2
CENTER	D2	9.9
BARRE	D4	10.9
LAGUBELL	D2	7.6
LITEHIPE	D5	4.9
LITEHIPE	D4	6.8
EL NIDO	D2	0.8
JOHANNA	D4	9
EAGLROCK	D2	4.8
SANTIAGO	D4	8.4
DELAMO	D5	2.6
BARRE	D3	9.8
ELLIS	D2	5.6
EL NIDO	D1	2.7
MESA CAL	D1	0.8
LA FRESA	D3	2.7
RIOHONDO	D6	6.6
DELAMO	D4	6.1
LCIENEGA	D3	2.6

LAGUBELL	D1	3.5
SANTIAGO	D3	1.1
LA FRESA	D2	3
WALNUT	D2	4.6
DELAMO	D3	0.1
LCIENEGA	D2	10.1
RIOHONDO	D5	4.9
VIEJO66	D1	0.4
JOHANNA	D3	8.4
CENTER	D1	3.1
LITEHIPE	D3	3.7
OLINDA	D3	6.6
DELAMO	D2	12.9
VILLA PK	D3	2.2
HINSON	D2	1.6
JOHANNA	D2	5.3
JOHANNA	D1	5.2
LITEHIPE	D2	1.5
VILLA PK	D2	9.1
ELLIS	D8	2.3
ALMITOSW	D1	0.1
LA FRESA	D1	3.8
OLINDA	D2	3.8
RIOHONDO	D4	8.6
HINSON	D1	1.1
DELAMO	D1	1.4
SANTIAGO	D2	1.1
BARRE	D2	8.8
LCIENEGA	D1	9.4
ELLIS	D1	2.3
WALNUT	D1	1.1
BARRE	D1	3.2
VILLA PK	D1	4
GOULD	D1	2.7
RIOHONDO	D3	3.1
RIOHONDO	D2	3.3
RIOHONDO	D1	2.4
LITEHIPE	D1	1.9
EAGLROCK	D1	4.9
HARBOR	F1	2
ALAMT1 G	1	175
ALAMT2 G	2	175
ALAMT3 G	3	240
ALAMT4 G	4	0
ALAMT5 G	5	0
ALAMT6 G	6	0
ANAHEIMG	1	50

ARCO 1G	1	54.2
ARCO 2G	2	54.2
ARCO 3G	3	54.2
ARCO 4G	4	54.2
ARCO 5G	5	27.1
ARCO 6G	6	27.1
BRIGEN	1	33
CARBGEN1	1	11
CHEVGEN1	1	0
CHEVGEN2	2	0
HINSON	1	47
HUNT1 G	1	226
HUNT2 G	2	226
ICEGEN	D1	46.6
LBEACH12	2	65
LBEACH34	3	65
MOBGEN1	1	21
OLINDA	CH	4.5
REDON5 G	5	0
REDON6 G	6	0
REDON7 G	7	0
REDON8 G	8	0
S.ONOFR2	2	1122
S.ONOFR3	3	1124
SANTIAGO	1	17
HARBOR G	1	90
HARBORG4	LP	11.9
HARBOR G	HP	10
PASADNA1	1	25
PASADNA2	1	25
BRODWYSC	1	65
EME WCG1	1	100
EME WCG3	1	100
EME WCG4	1	100
EME WCG5	1	100
EME WCG2	1	100
MALBRG3G	S3	50
MALBRG2G	C2	43
MALBRG1G	C1	43
CTRPKGEN	1	47.1
BARPKGEN	1	47.9
NRG ELG5	5	175
NRG ELG6	6	175
NRG ELS7	7	220
REFUSE	D1	9.8
HILLGEN	D1	51.6
SERRFGEN	D1	28.4



Western LA Basin - Sensitivity Study - Environmental Scenario

LBEACH12	1	65
LBEACH34	4	65
THUMSGEN	1	0
CARBGEN2	1	10.5
MOBGEN2	1	24
OUTFALL1	1	0
OUTFALL2	1	0
PALOGEN	D1	3.6
VENICE	1	0
COYGEN	1	18
FEDGEN	1	22
SIGGEN	D1	23.9
CanyonGT	1	48.5
CanyonGT	2	48.5
CanyonGT	3	48.5
CanyonGT	4	48.5

7049.6

## ALL LINES IN SERVICE

Flo direction	FNAME	FKV	TNAME	TKV	CK	P	
-1	OLINDA		230 MIRALOME		230	1	-551.4
-1	RIOHONDO		230 VINCENT		230	1	-513.8
-1	RIOHONDO		230 VINCENT		230	2	-512.6
-1	EAGLROCK		230 SYLMAR S		230	1	-504.2
-1	GOULD		230 SYLMAR S		230	1	-489.1
-1	MESA CAL		230 VINCENT		230	2	-483.7
-1	MESA CAL		230 VINCENT		230	1	-477.7
1	TALEGA		230 S.ONOFRE		230	1	-240.7
1	SANLUSRY		230 S.ONOFRE		230	1	-141
1	SANLUSRY		230 S.ONOFRE		230	2	-101.8
1	SANLUSRY		230 S.ONOFRE		230	3	-98.5
-1	S.ONOFRE		230 SERRANO		230	1	133.5
-1	S.ONOFRE		230 CAPSTRNO		230	1	150.8
1	CHINO		230 VIEJOSC		230	1	238
1	MIRALOMW		230 WALNUT		230	1	373.8
1	SERRANO		230 LEWIS		230	2	460.4
1	SERRANO		230 LEWIS		230	1	460.4
1	SERRANO		230 VILLAPK		230	2	734.7
1	SERRANO		230 VILLAPK		230	1	734.7
							5668.2

## LIMITING CONTINGENCY

-1	OLINDA		230 MIRALOME		230	1	-569.9
-1	RIOHONDO		230 VINCENT		230	1	-522.2
-1	RIOHONDO		230 VINCENT		230	2	-521
-1	EAGLROCK		230 SYLMAR S		230	1	-513.1
-1	GOULD		230 SYLMAR S		230	1	-498
-1	MESA CAL		230 VINCENT		230	2	-493.2
-1	MESA CAL		230 VINCENT		230	1	-487.2
1	TALEGA		230 S.ONOFRE		230	1	-240.1
1	SANLUSRY		230 S.ONOFRE		230	1	-138.2
1	SANLUSRY		230 S.ONOFRE		230	2	-99.7
1	SANLUSRY		230 S.ONOFRE		230	3	-96.5
-1	S.ONOFRE		230 SERRANO		230	1	108.5
-1	S.ONOFRE		230 CAPSTRNO		230	1	150.6
1	CHINO		230 VIEJOSC		230	1	247.6
1	MIRALOMW		230 WALNUT		230	1	389.9
1	SERRANO		230 LEWIS		230	2	799.8
1	SERRANO		230 VILLAPK		230	1	1463.5
							5671.8

gen	7049
import	5672
load	12721