



DOCKET 08-AFC-6

September 29, 2008

DATE	SEP 29 2008
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Dockets Unit
California Energy Commission
1516 Ninth Street, MS 4
Sacramento, CA 95814

RE: Willow Pass Generating Station
Application for Certification 08-AFC-06

On behalf of Mirant Willow Pass, LLC, the applicant for the above-referenced Willow Pass Generating Station AFC, we are pleased to submit the enclosed documents:

- Five print copies of Appendix F2, System Impact Study, of the AFC Supplement in Response to CEC Data Adequacy Review, and
- Five CDs of Appendix F2, System Impact Study, of the AFC Supplement in Response to CEC Data Adequacy Review.

The enclosed documents are being submitted to the CEC for docketing.

URS Corporation

Kathy Rushmore
Project Manager

Enclosures

CC: Ivor Benci-Woodward (w/o enclosure)

System Impact Study

Study Report

Mirant Willow Pass, LLC
Willow Pass Generating Station
Interconnection into PG&E's Pittsburg Substation

Preliminary Findings

September 29, 2008

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Introduction

Mirant Willow Pass, LLC (Willow Pass) has requested that a comprehensive third party system interconnection study (SIS) be conducted and submitted to the California Energy Commission (CEC). The study utilizes a power-flow case developed by Pacific Gas & Electric (PG&E) and the California Independent System Operator (CAISO). Every attempt has been made to diligently follow the requirements set by the CEC for third party system impact studies. This SIS, submitted by Willow Pass analyzes the system impacts with and without the 550MW¹ Willow Pass Generating Station (WPGS) ultimately demonstrating conformance or non-conformance with the applicable reliability and planning criteria.

Project Information

Appendix 1 provides information on the physical layout of the proposed WPGS. The new facility houses two combined cycle generators in a 1 X 1 configuration. The project is directly interconnected to the Pittsburg Substation via one short transmission line. A total of 550MW of net generation is expected for summer operations leaving the Willow Pass plant total power generated (Pgen) at 565MW with an on-site load of 15MW. It is expected that all units of the proposed WPGS would be fully operational during the year 2012, with 2013 being the first full year of commercial operation for all units of the WPGS.

Power Flow Base Case Assumptions

One power flow case was used to evaluate the impacts of the proposed interconnection of the WPGS interconnection into the PG&E's Pittsburg 230 kV Substation. The base cases represent extreme loading² and generation conditions for the Bay Area.

1. Starting Power-flow Case

A 2013 Summer Peak Full-Loop Base Case, which was developed from PG&E's 2008 Assessment base case series and reviewed by the CAISO was used as a starting case.

2. Load Pattern

Area loads were developed using the latest information available from CAISO and PG&E representing a summer 2013 1-in-10-year heat wave Bay area load level. For detailed loading information please see Appendix 6.

3. Generation Pattern

The power-flow case used in this analysis assumes that all licensed generators located in the Bay Area under construction or not under construction are available. Appendix 2 lists the notable generation projects that were included in the base cases with detailed generation information listed in Appendix 3.

4. Willow Pass Project

The "proposed system" configuration cases modeled the WPGS as two, 1x1 combined-cycle units tied directly to the Pittsburg Substation by one short 230kV tie. Please see Appendix 1 for detailed

¹ This is a net value (Pgen -Aux Loads etc.)

² PG&E Load forecast of 1 in 10 year heat wave Peak for the year 2013

interconnection schematic.

5. CAISO Transmission Projects

All approved CAISO transmission project slated for release of operations by the year 2013 are modeled.

6. Major California Bulk Paths

In both pre and post project cases, every attempt was made to keep California Oregon Intertie (COI) at 4800MW (North-South) with Path 26 (North-South) at 4000MW with the Pacific DC Intertie (PDCI) at 3100MW (North-South).

Technical Study Scope

The specific technical studies that were conducted are outlined in this section.

Steady State Power Flow Analysis

The base case was used to evaluate the existing system and with the proposed system configuration addition of the WPGS for normal operating conditions, as well as numerous single- and multiple-outage contingencies. Because during on-peak times, the Greater Bay Area is almost always a net import area, the study focused on the transmission facilities within the Bay Area as well as transmission facilities that interconnect overall Bay Area to the greater PG&E transmission grid. Please note that for study purposes generation tied to Contra Costa, Pittsburg, and San Francisco generation collector systems were committed and raised to full output to help aid in determining any limitations regarding the addition of the new WPGS. Additionally, generation located in the southern portion of the Bay Area and at Moss Landing was decreased to most stress the Newark – Metcalf transmission corridor.

The single (ISO Category “B”) and selected multiple (ISO Category “C”) contingencies evaluated in this study are listed in Appendix 4. These contingencies include the following types of outages:

ISO Category “B”

- ✓ All single generator outages within the Bay Area.
- ✓ All single transmission circuit outages within the Bay Area. This includes 500 kV³, 230 kV and 115 kV and 60 kV circuits.
- ✓ All single transformer outages within the Bay Area.

ISO Category “C”

- ✓ Outages of double-circuit tower lines (115 and 230 kV) within the Bay area.

Dynamic Stability Analysis

Dynamic stability studies were not required by the CEC for this phase of study and were not conducted as part of this interconnection study.

³ Bulk 500kV outages were studied in this power-flow analysis in an effort to provide added perspective. Post-Transient analysis is the preferred method of study of Bulk 500kV outages.

System Protection Analysis

Short-circuit studies were not required by the CEC for this phase of study and were not conducted as part of this interconnection study.

Reactive Power Deficiency Analysis

Post-transient studies were not required by the CEC for this phase of study and were not conducted as part of this interconnection study; however, pre- and post-contingency per-unit voltages were noted in both pre- and post-project power flow cases.

Results of 2013 Summer Peak Power Flow Studies

The 2013 base case developed to study the proposed interconnection of the WPGS into the Pittsburg Substation was evaluated under all-lines-in-service conditions (Category A) and under a comprehensive set of Category B and C contingencies listed in Appendix 4. Detailed results of the power flow studies are presented in Appendices 4 for 2013 Summer Peak conditions.

Category A (All-lines-In-Service; No Contingencies)

In reviewing the detailed 2013 Summer Peak Power-flow analysis results, one Category A normal overload was noted in both pre- and post-project results. East Shore-San Mateo 230kV line loading is clearly identified as a pre-existing normal overload.

OUTAGE DESCRIPTION	OVERLOADED ELEMENT	PRE N PCT	POST N PCT	N DELTA	N RATE	UNIT	ELEMENT TYPE
N-0 BASE CASE	E. SHORE-SANMATEO 230kV Line	117.7	125.6	7.9	989	Amps	Line

Category B (N-1 Contingencies)

The 2013 Summer Peak Power-flow analysis found Category B overloads in both pre-project and post-project base case results. Each overload was reviewed and determined to be a pre-existing normal overload. Therefore, no new Category B overloads were related to the addition of the WPGS project.

Category C (N-2 DCTL Contingencies)

As a part of the 2013 Summer Peak Power-flow analysis several Category C type contingencies or N-2's were modeled. Review of the 2013 Summer Peak Power-flow analysis revealed many contingency overloads were found in both pre-project and post-project power flow cases. (The entire list of Category C contingency overloads is given in Appendix 5.) Of these overloads only two new Category C type overloads were noted as new. Loss of both Pittsburg-Tesoro and Pittsburg-Tidewater 230kV line results in an overload of the Alhambra Tap 2-Martinez D 115kV Line section (Note this is show in blue in the table below); however, the overloaded element, Alhambra Tap 2-Martinez D 115kV Line section is also noted as overloading under another category C type contingency or N-2's -loss of both El Cerrito-Sobrante 115kV lines. The outage also results in the same overloaded element in both pre-project and post-project cases (shown in black in the table below). It is evident that the overloaded outage can already be flagged as a pre-project problem under other N-2 type contingencies.

OUTAGE NO	OUTAGE DESCRIPTION	OVERLOADED ELEMENT	PRE E PCT	POST E PCT	E DELTA	E RATE	UNIT	ELEMENT TYPE
484	N-2 PITTSBURG - TESORO & PITTSBURG - TIDEWATER 230kV LINES	ALHAMTP2-MARTNZ D 115kV LINE	83.8	101.8	18.0	487	Amps	Line
514	N-2 EI CERRITO - SOBRANTE 115kV #1 & #2 LINES	ALHAMTP2-MARTNZ D 115kV LINE	106.4	111.8	5.3	487	Amps	Line

The only other additional new overload associated with the post-project is the overload of Alhambra Tap 2-Oleum 115kV line due to the loss of both El Cerrito-Sobrante 115kV lines (show in blue in the table below).

OUTAGE NO	OUTAGE DESCRIPTION	OVERLOADED ELEMENT	PRE E PCT	POST E PCT	E DELTA	E RATE	UNIT	ELEMENT TYPE
514	N-2 EI CERRITO - SOBRANTE 115kV #1 & #2 LINES	ALHAMTP2-OLEUM 115kV LINE	99.4	104.3	4.9	522	Amps	Line

Per-Unit Voltage Results

A review of per-unit voltages both pre- and post-contingency and both pre- and post-project is noted while post-processing the power-flow results. Detailed information regarding voltage can be found in Appendix 5 under per-unit voltage results section. As expected, the addition of the 550MW WPGS adds a significant amount of dynamic reactive capability to the Bay Area ultimately improving voltages.

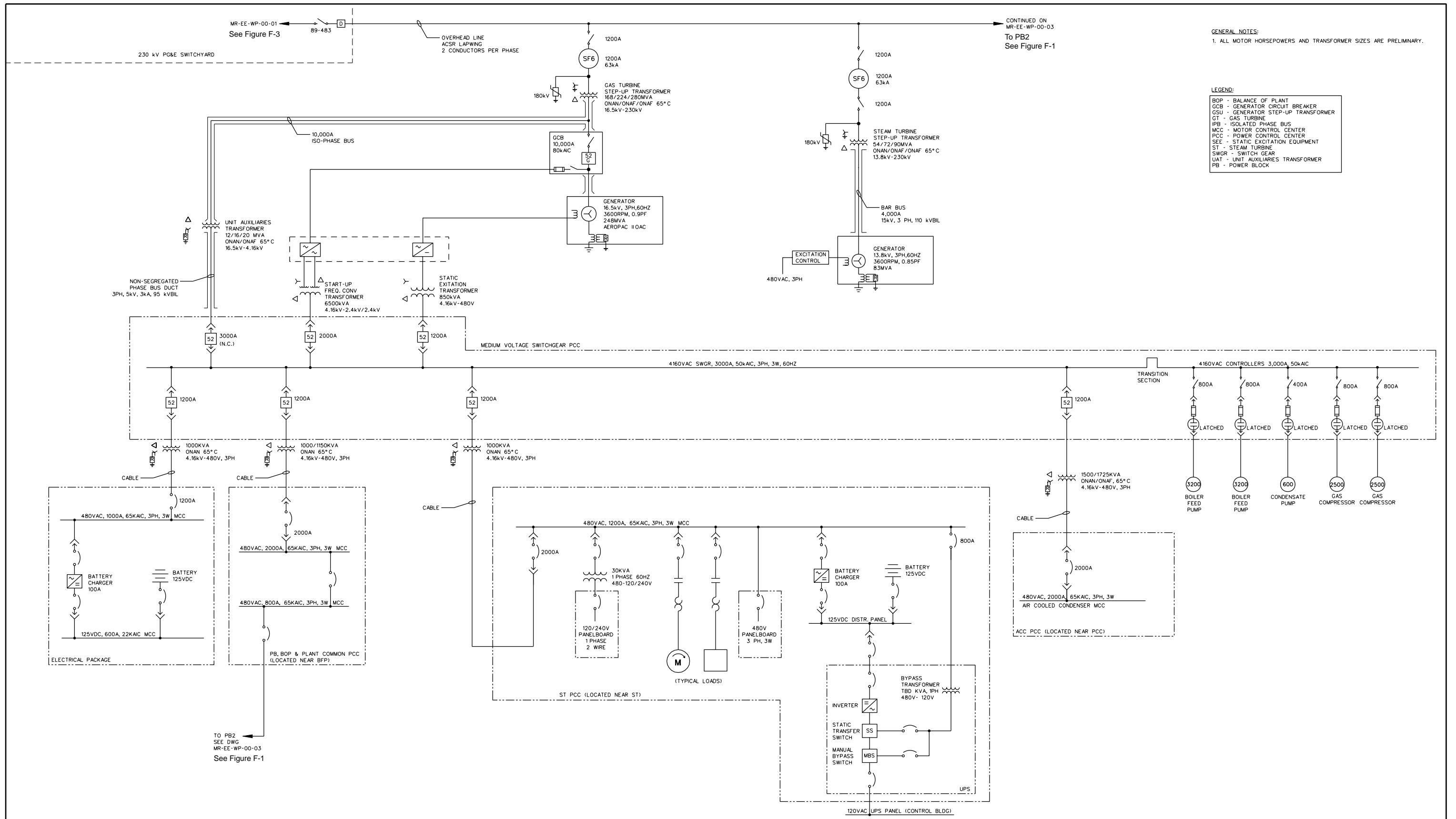
Potential Interconnection Thermal Overload Transmission Mitigation

Information outlined in this section describes potential transmission overload mitigation options for transmission overloads associated with the WPGS interconnection.

1. N-2 Contingency Driven Overloads

A small number (2) of N-2 contingency driven overloads were noted in the post project case results, but not in the pre-project case results. Typically, mitigation for N-2 does not require re-conductoring, but may require an operational mitigation or a special protection scheme.

APPENDIX 1 – Schematics of Willow Pass Generation Interconnection



Source:
CH2MHill Lockwood Greene; Electrical Willow Pass Generating Station,
Combined Cycle PB1, Overall Single-Line Diagram;
Drawing No: MR-EE-WP-00-02 (Rev. P4, 09/08/08)

**FLEX PLANT 10 – POWER BLOCK 1
OVERALL SINGLE LINE DIAGRAM**

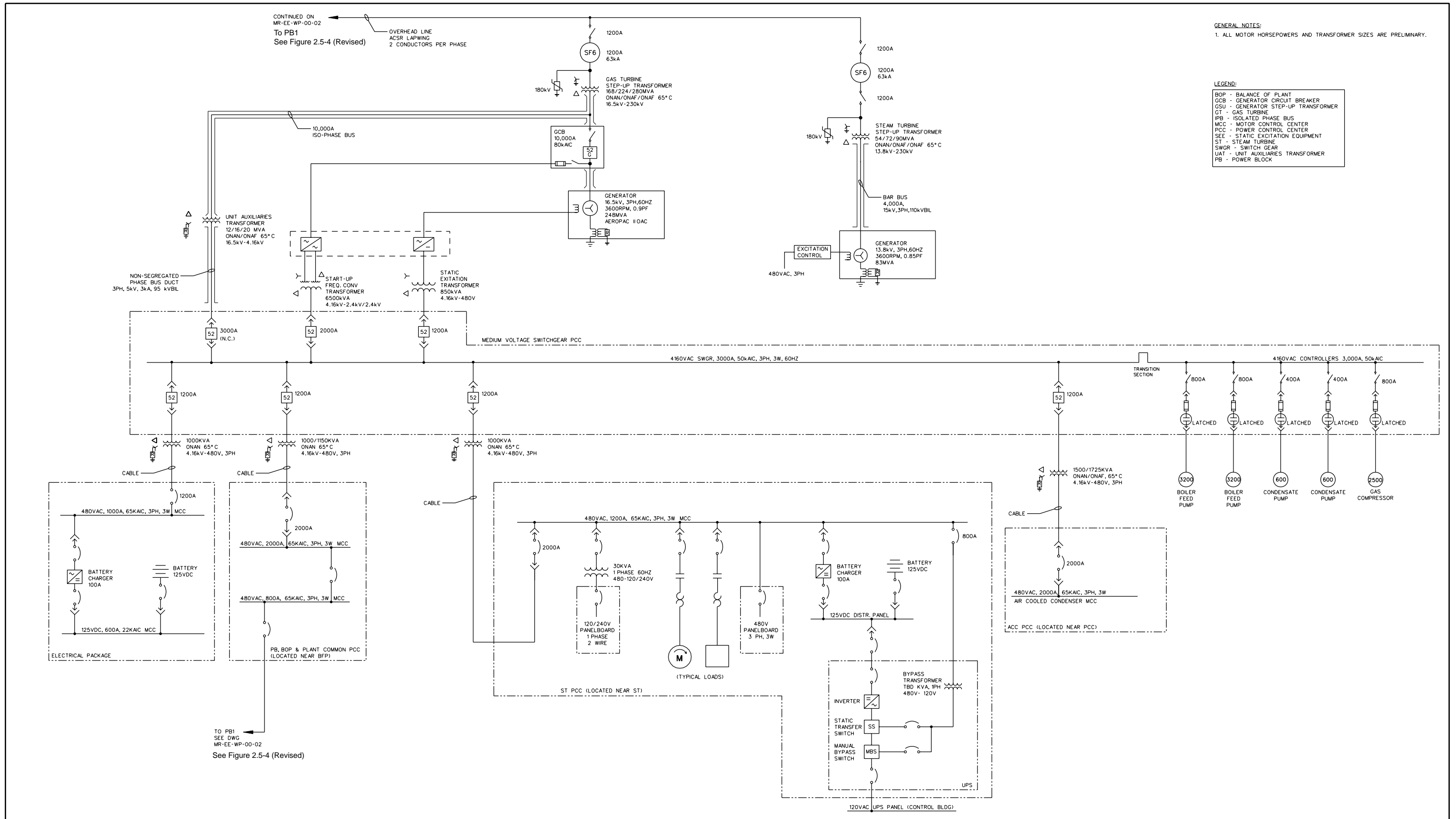
Willow Pass Generating Station

September 2008
28067343

Mirant Willow Pass, LLC
Pittsburg, California



FIGURE 2.5-4 (REVISED)



GENERAL NOTES:
1. ALL MOTOR HORSEPOWERS AND TRANSFORMER SIZES ARE PRELIMINARY.

LEGEND:
BOP - BALANCE OF PLANT
GCB - GENERATOR CIRCUIT BREAKER
GSU - GENERATOR STEP-UP TRANSFORMER
GT - GAS TURBINE
IPB - ISOLATED PHASE BUS
MCC - MOTOR CONTROL CENTER
PCC - POWER CONTROL CENTER
SEE - STATIC EXCITATION EQUIPMENT
ST - STEAM TURBINE
SWGR - SWITCH GEAR
UAT - UNIT AUXILIARIES TRANSFORMER
PB - POWER BLOCK

Source:
CH2MHill Lockwood Greene; Electrical Willow Pass Generating Station,
Combined Cycle PB2, Overall Single-Line Diagram;
Drawing No: MR-EE-WP-00-03 (Rev. P4, 09/08/08)

**FLEX PLANT 10 – POWER BLOCK 2
OVERALL SINGLE LINE DIAGRAM**

Willow Pass Generating Station

September 2008
28067343

Mirant Willow Pass, LLC
Pittsburg, California



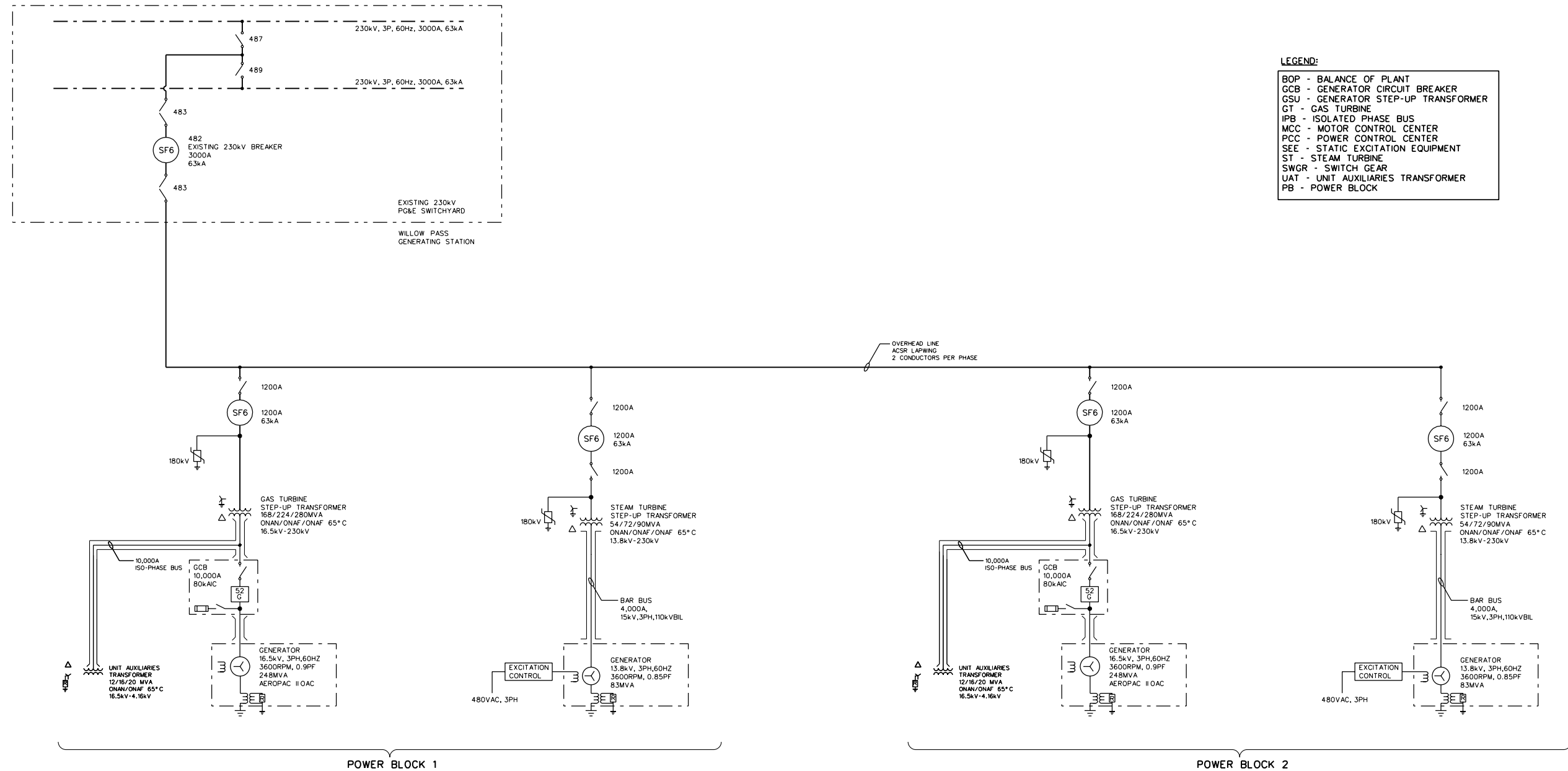
FIGURE F-1

GENERAL NOTES:

1. ALL MOTOR HORSEPOWERS AND TRANSFORMER SIZES ARE PRELIMINARY.

LEGEND:

- BOP - BALANCE OF PLANT
- GCB - GENERATOR CIRCUIT BREAKER
- GSU - GENERATOR STEP-UP TRANSFORMER
- GT - GAS TURBINE
- IPB - ISOLATED PHASE BUS
- MCC - MOTOR CONTROL CENTER
- PCC - POWER CONTROL CENTER
- SEE - STATIC EXCITATION EQUIPMENT
- ST - STEAM TURBINE
- SWGR - SWITCH GEAR
- UAT - UNIT AUXILIARIES TRANSFORMER
- PB - POWER BLOCK



POWER BLOCK 1

POWER BLOCK 2

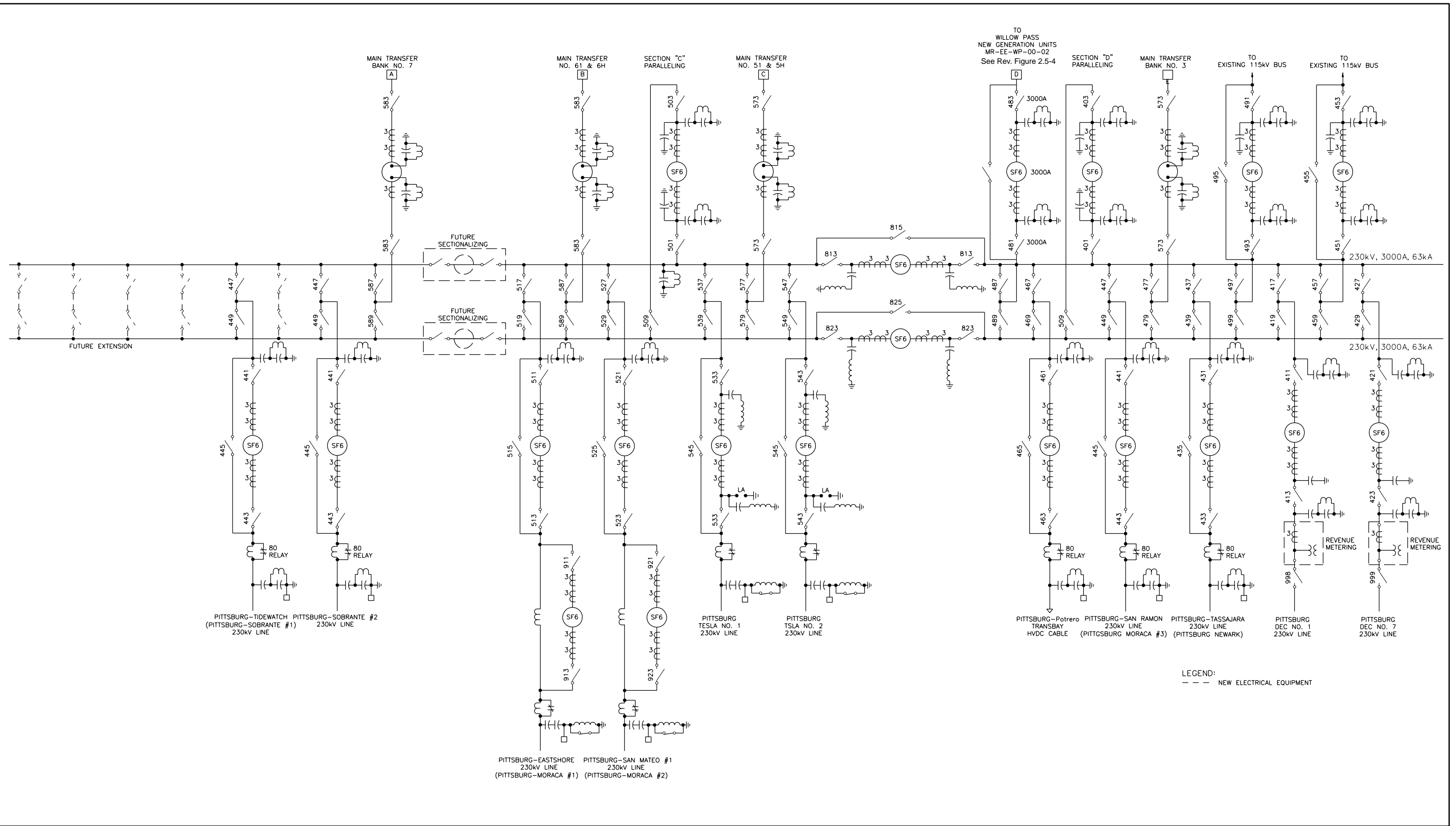
Source:
 CH2MHill Lockwood Greene; Electrical Willow Pass Generating Station,
 Combined Cycle, Overall Plant Single-Line Diagram;
 Drawing No: MR-EE-WP-00-04 (Rev. P2, 09/22/08)

OVERALL PLANT SINGLE LINE DIAGRAM

September 2008
 28067343
 Willow Pass Generating Station
 Mirant Willow Pass, LLC
 Pittsburg, California



FIGURE F-2

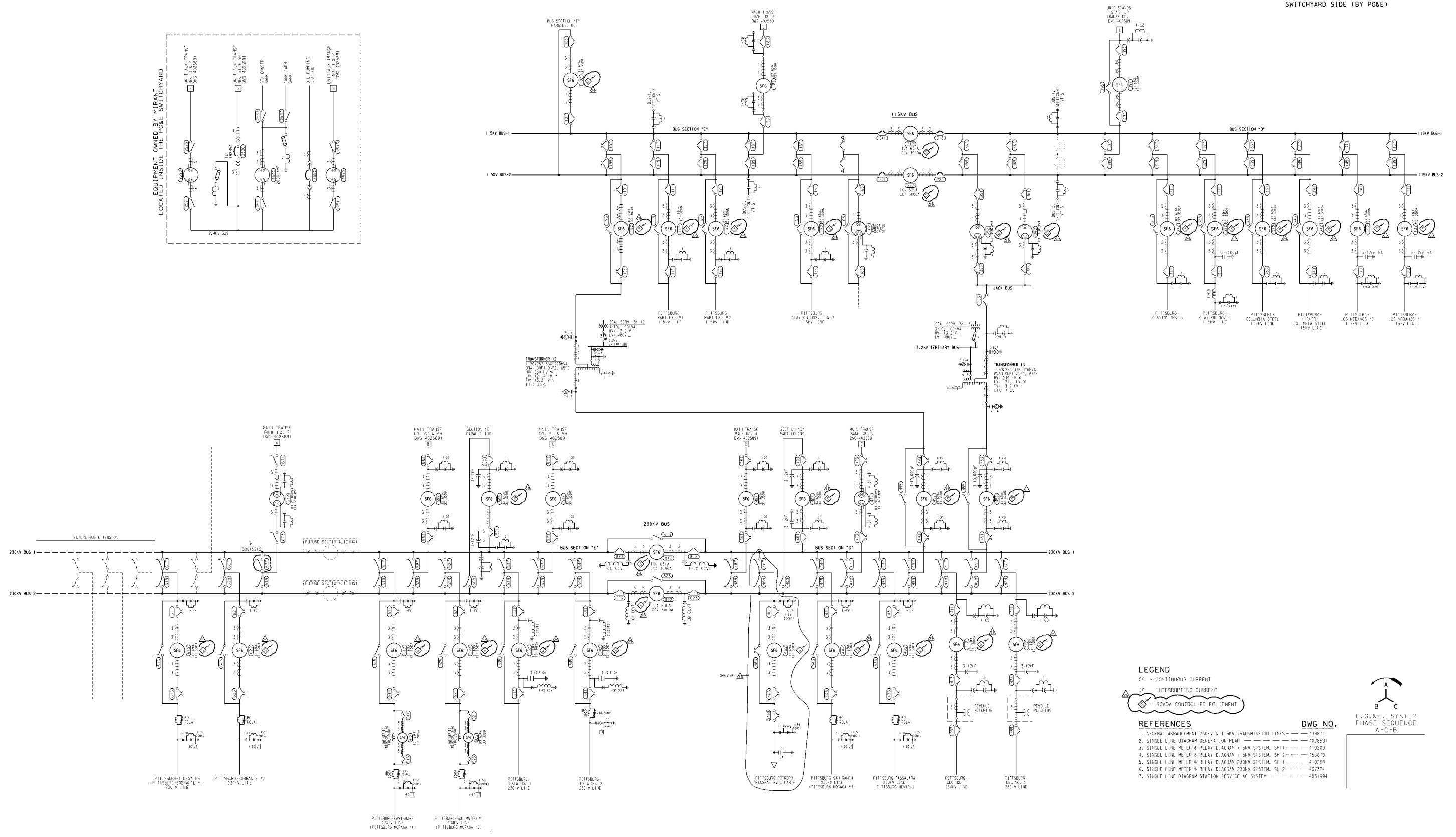


Source:
 CH2MHill Lockwood Greene; Electrical Willow Pass Generating Station,
 Switchyard, Single-Line Diagram;
 Drawing No: MR-EE-WP-00-01 (Rev. P4, 09/22/08)

**SWITCHYARD WITH WPGS
 SINGLE LINE DIAGRAM**
 Willow Pass Generating Station
 September 2008
 28067343
 Mirant Willow Pass, LLC
 Pittsburg, California



FIGURE F-3



LEGEND
 CC - CONTINUOUS CURRENT
 IC - INTERRUPTING CURRENT
 - SCADA CONTROLLED EQUIPMENT

REFERENCES
 1. GENERAL ARRANGEMENT 230KV & 115KV TRANSMISSION LINES - 439874
 2. SINGLE LINE DIAGRAM GENERATION PLANT - 4028591
 3. SINGLE LINE METER & RELAY DIAGRAM 115KV SYSTEM, SH 1 - 410209
 4. SINGLE LINE METER & RELAY DIAGRAM 115KV SYSTEM, SH 2 - 453679
 5. SINGLE LINE METER & RELAY DIAGRAM 230KV SYSTEM, SH 1 - 410208
 6. SINGLE LINE METER & RELAY DIAGRAM 230KV SYSTEM, SH 2 - 457324
 7. SINGLE LINE DIAGRAM STATION SERVICE AC SYSTEM - 403194

DWG. NO.
 P, G, & E, SYSTEM
 PHASE SEQUENCE
 A-C-B

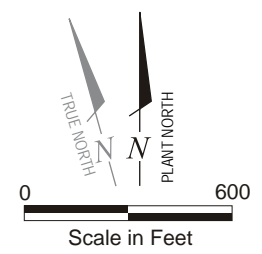
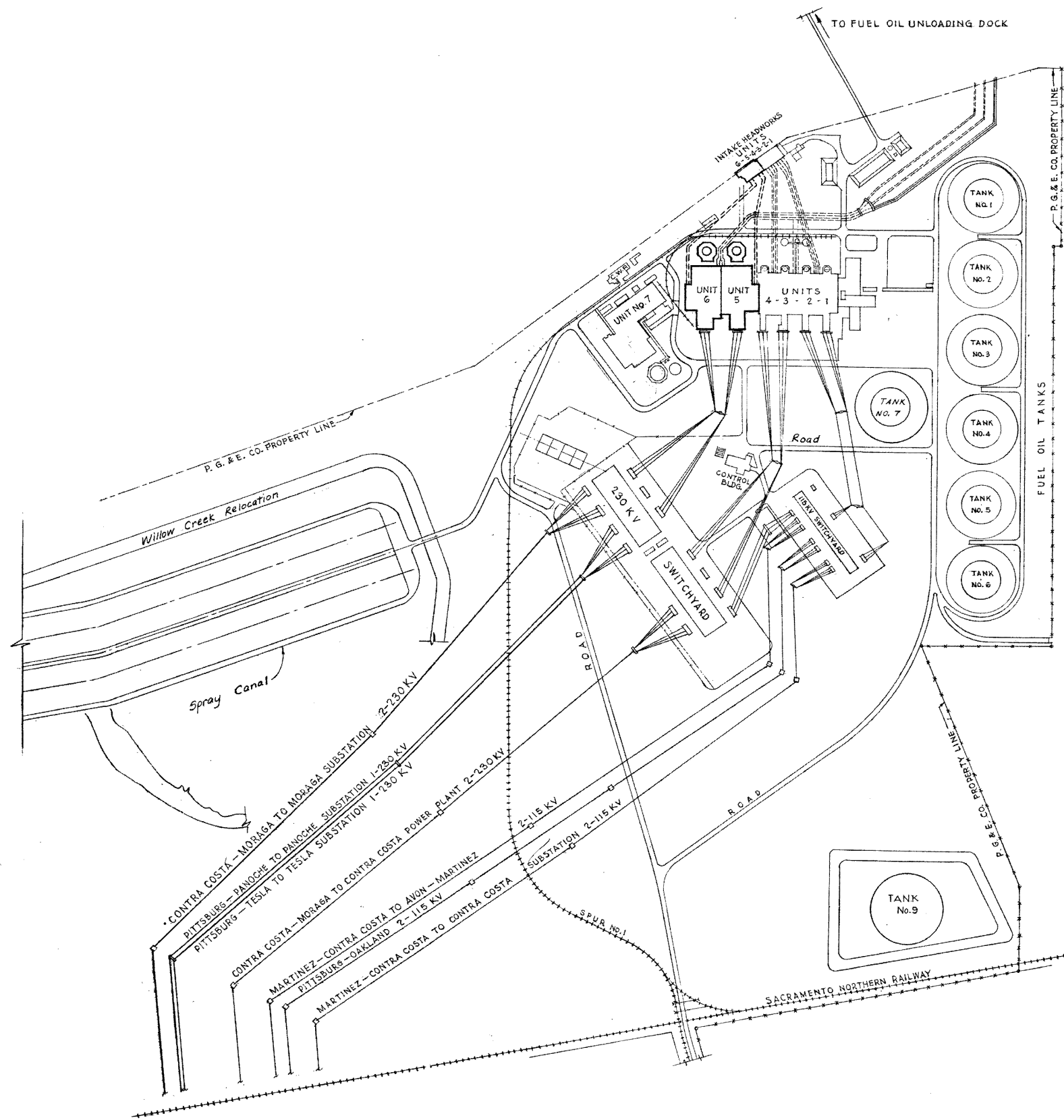
Source:
 Pacific Gas and Electric Company, Pittsburg Power Plant
 Single-Line Diagram;
 Drawing No. 57907 (Rev. 31. 8/14/08)

**EXISTING PITTSBURG POWER PLANT
 PG&E SWITCHYARD SINGLE LINE DIAGRAM**
 Willow Pass Generating Station
 Mirant Willow Pass, LLC
 Pittsburg, California

September 2008
 28067343



FIGURE F-4



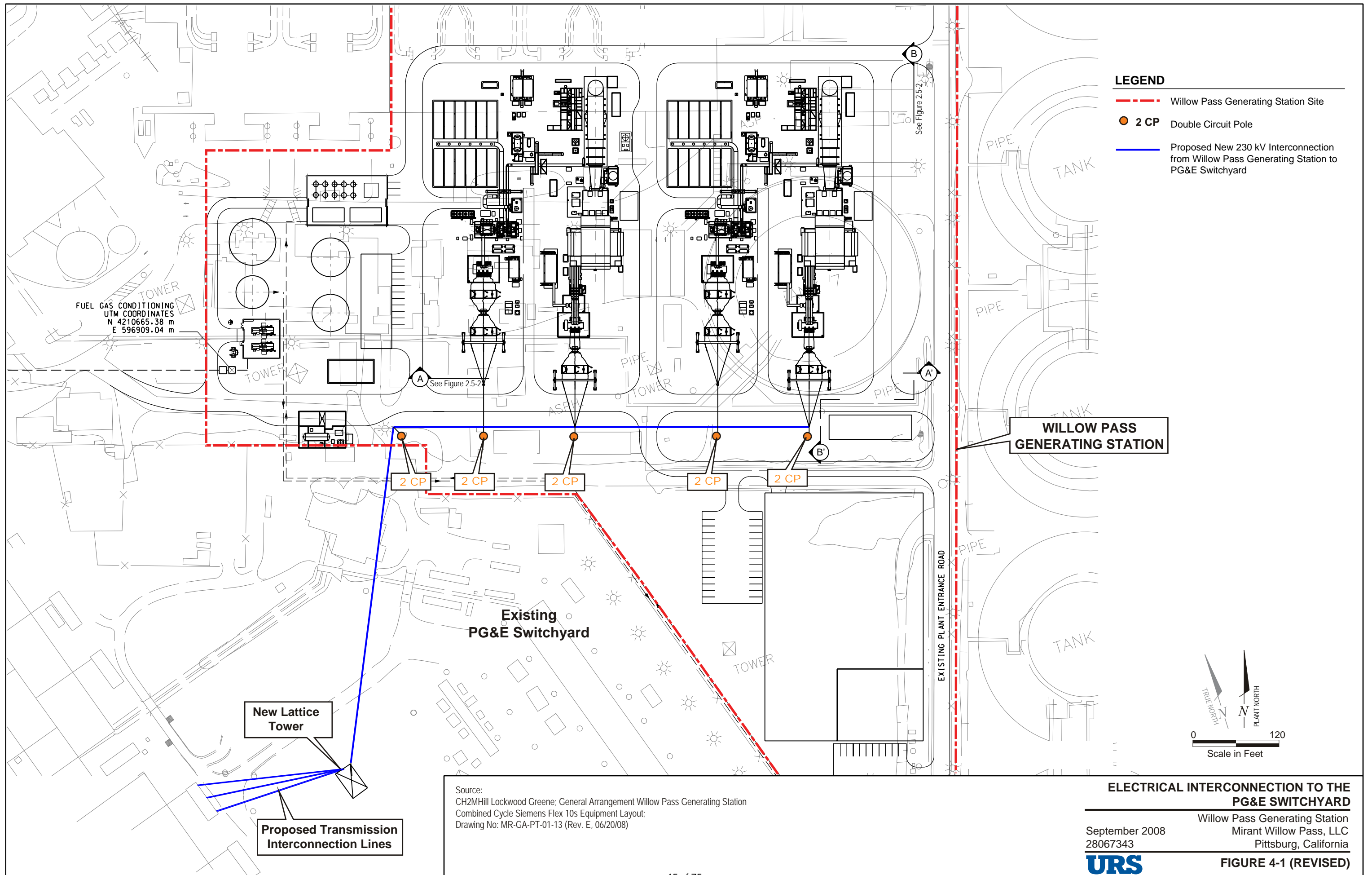
Source:
 Pacific Gas and Electric Company, Pittsburg Power Plant,
 General Plan, Units No. 5 and 6
 Drawing No: 420535

EXISTING PITTSBURG POWER PLANT SWITCHYARD LAYOUT
 Willow Pass Generating Station
 Mirant Willow Pass, LLC
 Pittsburg, California

September 2008
 28067343



FIGURE F-5



APPENDIX 2 – Notable Generator Projects Modeled in Study

The power-flow case used in this analysis assumes that all licensed generators located in the Bay Area under construction or not under construction are available.

Notable Generation Projects Modeled in Study
Gateway Power Plant 530 MW
Los Esteros Critical Energy Facility Phase II (Combined Cycle interconnected to 230kV by two step-up transformer banks) 140 MW
Russell City Energy Center 600 MW
FPLE - Tesla Generation (acquisition by PG&E currently pending before CPUC): 578 MW

Notable Generation Projects <u>Not</u> Modeled in Study
CCSF Peakers (Instead all existing generation at Potrero was modeled at full-output on-line)

APPENDIX 3 – Detailed PG&E (Area 30) Power-flow Case Generation Information

BUS-NO	NAME1	KV1	ID	ST	PGEN	QGEN
34608	AGRICO	13.8	4	1	44.2	3.8
34608	AGRICO	13.8	3	1	18.1	3.8
34608	AGRICO	13.8	2	1	9	3.8
38118	ALMDACT1	13.8	1	1	22.6	12.4
38119	ALMDACT2	13.8	1	1	22.6	12.4
38564	ALMONDCT	13.8	1	1	45	16.1
33773	ALTA-CGE	60	1	1	4	-1
33175	ALTAMONT	9.11	1	0	0	0
35029	BADGERCK	13.8	1	1	46.3	2.6
36202	BAF COG1	13.8	1	1	38	18
36203	BAF COG2	13.8	1	1	75	32.6
34624	BALCH 1	13.2	1	1	31	5.6
31820	BCKS CRK	11	1	1	28	7.3
31820	BCKS CRK	11	2	1	25.2	7.3
31402	BEAR CAN	13.8	1	1	9.8	2.2
31402	BEAR CAN	13.8	2	1	9.8	2.2
34074	BEARDSLY	6.9	1	1	10.6	2
31784	BELDEN	13.8	1	1	107	23.8
33804	BELLTA T	13.8	1	1	0	37.8
34334	BIO PWR	9.11	1	1	21.8	7.2
34612	BLCH 2-2	13.8	1	1	52	6.2
34614	BLCH 2-3	13.8	1	1	52	11.5
31840	BLCKBUTT	9.11	1	1	2.2	-1
31421	BOTTLERK	13.8	1	1	55	10.4
32480	BOWMAN	9.11	1	1	2.5	-1
31798	BRNYFRST	13.2	1	1	26.6	2.9
38775	BUENAVS1	13.2	2	0	0	0
38775	BUENAVS1	13.2	3	0	0	0
38775	BUENAVS1	13.2	6	1	-13	0
38775	BUENAVS1	13.2	5	1	-13	0
38775	BUENAVS1	13.2	1	0	0	0
38775	BUENAVS1	13.2	4	1	-13	0
38780	BUENAVS2	13.2	3	0	0	0
38780	BUENAVS2	13.2	2	1	-6	0
38780	BUENAVS2	13.2	1	1	-13	0
38780	BUENAVS2	13.2	4	0	0	0
31780	BUTTVLLY	13.8	1	1	39.9	-1.8
33114	C.COS 4	13.8	1	0	0	26.7
33115	C.COS 5	13.8	1	0	0	36.2
33116	C.COS 6	18	1	1	330	132.8
33117	C.COS 7	18	1	1	330	132.8
33850	CAMANCHE	4.16	1	1	3.5	-2
33850	CAMANCHE	4.16	3	1	3.5	0
33850	CAMANCHE	4.16	2	1	3.5	0
37301	CAMINO 1	13.8	1	1	50	5.6
37302	CAMINO 2	13.8	1	1	50	4.9
37303	CAMPBEL1	13.8	1	1	100	39

BUS-NO	NAME1	KV1	ID	ST	PGEN	QGEN
35852	GROYPKR2	13.8	1	1	48.7	-6.6
35853	GROYPKR3	13.8	1	1	48.7	-6.6
33131	GW F#1	9.11	1	1	12.7	-2.7
33132	GW F#2	13.8	1	1	12.3	4.9
33133	GW F#3	13.8	1	1	19	4.5
33134	GW F#4	13.8	1	1	18.6	3.4
33135	GW F#5	13.8	1	1	18.9	4.1
34650	GW F-PWR.	13.8	1	1	23	6.9
33805	GW FTRCY1	13.8	1	1	85.9	12.6
33807	GW FTRCY2	13.8	1	1	85.9	12.6
34539	GW F_GT1	13.8	1	1	50	-6.5
34541	GW F_GT2	13.8	1	1	50	-6.5
34431	GW F_HEP1	13.8	1	1	50	17.3
34433	GW F_HEP2	13.8	1	1	50	17.3
36858	Gia100	13.8	1	0	20.1	5.1
36895	Gia200	13.8	1	0	20.6	5.1
34610	HAAS	13.8	1	1	70	15.1
34610	HAAS	13.8	2	1	70	15.1
32478	HALSEY F	6.6	1	1	8.6	-1.2
31830	HAMIL.BR	9.11	2	1	2	0.1
31830	HAMIL.BR	9.11	1	1	2	0.1
31902	HAT CRK1	6.6	1	1	5	-3.1
31904	HAT CRK2	6.6	1	1	5	-3.8
31846	HATCHET+	9.11	2	1	2.5	1.3
31846	HATCHET+	9.11	3	0	0	1
31846	HATCHET+	9.11	4	0	0	2.5
31846	HATCHET+	9.11	1	0	0	2.8
31868	HATLOST+	9.11	2	0	0	-0.5
31868	HATLOST+	9.11	3	0	0	-0.2
31868	HATLOST+	9.11	1	0	0	-0.7
32488	HAYPRES+	9.11	2	1	1.9	-2.5
32488	HAYPRES+	9.11	1	0	0	-2
32486	HELLHOLE	9.11	1	0	0	0
34600	HELMS 1	18	1	1	404	19.9
34602	HELMS 2	18	1	0	404	55.7
34604	HELMS 3	18	1	0	404	101.7
34630	HERNDN1T	13.2	1	1	0	7.1
34632	HERNDN2T	13.2	1	1	0	9.8
38346	HERSHEYF	9.11	1	0	0	2.8
32171	HIGHWND3	34.5	1	1	38	0
32172	HIGHWND5	34.5	1	1	150	0
32740	HILLSIDE	115	1	1	26	-8.7
35027	HISIERRA	13.8	1	1	47.9	2.8
31170	HMBOLDT1	13.8	1	0	50	14.5
31172	HMBOLDT2	13.8	1	0	50	13.2
36986	HOLM 1	13.8	1	1	17	2.2
36988	HOLM 2	13.8	1	1	17	2.2

BUS-NO	NAME1	KV1	ID	ST	PGEN	QGEN
31890	PO POWER	9.11	1	1	7	-2.5
31790	POE 1	13.8	1	1	56	20.4
31792	POE 2	13.8	1	1	56	20.4
33252	POTRERO3	20	1	1	210	65.9
33253	POTRERO4	13.8	1	1	50	2.9
33254	POTRERO5	13.8	1	1	50	2.9
33255	POTRERO6	13.8	1	1	50	3
31433	POTTRVLY	2.4	4	0	0	0
31433	POTTRVLY	2.4	3	0	0	0
31433	POTTRVLY	2.4	1	1	3.2	1.3
33846	PRDE 1-3	7.2	1	0	0	1.2
33846	PRDE 1-3	7.2	2	1	8	2
37310	PROCTER1	13.8	1	1	40	15
37311	PROCTER2	13.8	1	1	30	15
37312	PROCTER3	13.8	1	1	40	15
37313	PROCTER4	13.8	1	1	40	20
35066	PSE-BEAR	9.11	1	1	43.3	0.8
35058	PSE-LVOK	9.11	1	1	43.1	-4.9
35060	PSEMCKIT	9.11	1	1	42.6	22.7
36217	PSWTSTCM	8	1	1	0	26.7
33105	PTSB 5	18	1	1	325	108.8
33106	PTSB 6	18	1	1	325	101
30000	PTSB 7	20	1	1	708.8	181.1
32458	RALSTON	13.8	1	1	83	7.8
35304	RCECCTG1	15	1	1	180	32.3
35305	RCECCTG2	15	2	1	180	32.3
35306	RCECSTG1	18	3	1	254	45.2
37940	RDGCT 1	13.8	1	0	0	0
37941	RDGCT 2	13.8	1	0	0	0
37942	RDGCT 3	13.8	1	1	30	0
37958	RDGCT4	13.8	1	0	0	0
37944	RDGSTeam	13.8	1	0	0	0
37601	REP1	13.8	1	1	50	17.5
37602	REP2	13.8	1	1	50	17.5
37603	REP3	13.8	1	1	50	17.5
35020	RIOBRAVO	9.11	1	1	8.3	2.1
38351	RIPN_1	13.8	1	1	45	-2.7
38353	RIPN_2	13.8	1	1	45	-2.7
32162	RIV.DLTA	9.11	1	0	0	-1
37314	ROBBS PK	13.8	1	1	20	8.7
31786	ROCK CK1	13.8	1	1	51	14.9
31788	ROCK CK2	13.8	1	1	51	23.4
32476	ROLLINSF	9.11	1	1	12	-1
38116	ROSEVCT1	13.8	1	0	16.3	9.1
38117	ROSEVCT2	13.8	1	0	16.3	9.1
33178	RVEC_GEN	13.8	1	1	50	2.8
36201	SALNR GN	13.8	1	1	32.2	1.5

BUS-NO	NAME1	KV1	ID	ST	PGEN	QGEN
37304	CAMPBEL2	13.8	1	1	50	20
33463	CARDINAL	12.47	1	1	31	12.5
33463	CARDINAL	12.47	2	1	10	4
35863	CATALYST	9.11	1	1	2.3	0
36856	CCA100	13.8	1	0	24	8.3
33136	CCCS	12.47	1	1	4.4	0.9
33281	CCSFCT1	13.8	1	0	50.5	8.8
33282	CCSFCT2	13.8	1	0	50.5	8.8
33283	CCSFCT3	13.8	1	0	50.5	8.8
31850	CEDR FL+	9.11	2	0	0	-1.6
31850	CEDR FL+	9.11	1	0	0	-0.1
34050	CH.STN.	13.8	1	1	10	11
35052	CHEV.USA	9.11	1	1	11	3.3
32462	CHI.PARK	11.5	1	1	37.9	8.1
32510	CHILIBAR	4.16	1	1	5.5	4
35038	CHLKCLF+	9.11	1	1	43.6	24
34301	CHOWCOGN	13.8	1	1	48	-5.4
35032	CHV-CYMR	9.11	1	1	13.5	-0.2
34652	CHV.COAL	9.11	2	1	8	4
34652	CHV.COAL	9.11	1	1	2.5	8.3
34305	CHWCHLA2	13.8	1	1	12.5	7.3
36205	CIC COGN	12.47	1	1	28	10.2
31872	CLOVER	9.11	1	1	0.6	0.1
32470	CMP.FARW	9.11	1	1	4.6	-2.5
31838	CNTRVL12	9.11	2	0	0	0
31838	CNTRVL12	9.11	1	1	4	0
33832	COG.CAPT	9.11	1	1	4.3	5.1
33818	COG.NTNL	12	1	1	35	17.6
31906	COLEMAN	6.6	1	1	8.7	2.2
32450	COLGATE1	13.8	1	1	147	14.9
32452	COLGATE2	13.8	1	1	147	14.9
31894	COLLINS	9.11	1	1	8.3	1.4
38102	COLLRVL1	13.8	1	1	89.3	50
38104	COLLRVL2	13.8	1	1	89.3	50
34654	COLNGAGN	9.11	1	1	34	-9.3
37321	COSUMNE1	18	1	1	165	25.9
37322	COSUMNE2	18	1	1	165	26
37323	COSUMNE3	16.5	1	1	170	26.2
37324	COSUMNE4	18	1	0	160	7.5
37325	COSUMNE5	18	1	0	160	7.2
37326	COSUMNE6	16.5	1	0	165	5.3
31856	COWCRK	9.11	2	1	0.8	0
31856	COWCRK	9.11	1	0	0	0
33814	CPC STCN	12.47	1	1	49	16.6
31923	CPVGT1	18	1	1	199	59.9
31924	CPVGT2	18	2	1	199	59.6
31925	CPVST1	18	3	1	317	105

BUS-NO	NAME1	KV1	ID	ST	PGEN	QGEN
36938	HONEYLKE	9.11	2	0	0	1
36938	HONEYLKE	9.11	1	1	22.1	2.1
31154	HUMBOLDT	13.2	1	0	15	0
31154	HUMBOLDT	13.2	2	0	15	0
31180	HUMB_G1	13.8	2	1	16.6	-5.5
31180	HUMB_G1	13.8	3	1	16.6	-5.5
31180	HUMB_G1	13.8	4	1	16.6	-5.5
31180	HUMB_G1	13.8	1	1	16.6	-5.5
31181	HUMB_G2	13.8	7	1	16.6	0.3
31181	HUMB_G2	13.8	6	1	16.6	0.3
31181	HUMB_G2	13.8	5	1	16.6	0.3
31182	HUMB_G3	13.8	9	1	16.6	0.3
31182	HUMB_G3	13.8	8	1	16.6	0.3
31182	HUMB_G3	13.8	10	1	16.6	0.3
38825	HYATT 1	12.5	1	1	117	18.7
38830	HYATT 2	12.5	1	1	97	17.4
38835	HYATT 3	12.5	1	1	117	19.6
38840	HYATT 4	12.5	1	1	97	18.2
38845	HYATT 5	12.5	1	1	117	19.2
38850	HYATT 6	12.5	1	1	97	17.8
33816	I.ENERGY	12	1	0	14.5	2.6
35637	IBM-CTLE	115	1	0	0	0
31436	INDIAN V	9.11	1	1	0.9	0
31908	INSKIP	4.16	1	1	6.9	1.5
34342	INT.TURB	9.11	1	1	1.1	0
37553	J.F.CARR	13.8	1	1	73.5	29.3
37553	J.F.CARR	13.8	2	1	73.5	29.3
37305	JAYBIRD1	13.8	1	1	60	0.2
37306	JAYBIRD2	13.8	1	1	60	0.4
31768	JBBLACK1	13.8	1	1	82	6.1
31770	JBBLACK2	13.8	1	1	83	6.1
36936	JELD-WN	9.11	1	0	1	0.1
37307	JONESFRK	4.16	1	1	9.5	1.8
34332	JRWCOGEN	9.11	1	1	3.8	5.4
33834	KALINA	9.11	1	0	0	3.3
36207	KCTYPKER	13.8	1	1	48.7	3.5
31166	KEKAWAK	4.16	1	1	4.5	3.7
31834	KELLYRDG	9.11	1	1	10	-2
34344	KERCKHOF	6.6	1	0	0	0
34344	KERCKHOF	6.6	3	0	0	0
34344	KERCKHOF	6.6	2	1	6.8	-4
34308	KERCKHOF	13.8	1	1	129	16
35006	KERN 1	13.8	1	0	0	0
35008	KERN 2	13.8	1	0	0	0
35018	KERNCNYN	9.11	1	0	10.6	3
35026	KERNFRNT	9.11	1	1	47.7	-11.5
35040	KERNRDGE	9.11	1	1	60	10

BUS-NO	NAME1	KV1	ID	ST	PGEN	QGEN
33800	SALT SPS	11	1	1	8	7.8
33800	SALT SPS	11	2	1	32	9
34060	SANDBAR	13.8	1	1	14.7	5.4
34646	SANGERCO	9.11	1	1	37.5	5.1
38730	SANLUIS1	13.8	2	1	20	0
38730	SANLUIS1	13.8	1	1	20	0
38735	SANLUIS2	13.8	1	1	20	0
38735	SANLUIS2	13.8	2	1	20	0
38740	SANLUIS3	13.8	1	0	0	0
38740	SANLUIS3	13.8	2	0	0	0
38745	SANLUIS4	13.8	1	0	0	0
38745	SANLUIS4	13.8	2	0	0	0
31400	SANTA FE	13.8	1	1	64.2	5.3
31400	SANTA FE	13.8	2	0	0	0
36200	SARGCN G	13.8	1	1	33.7	3.8
35312	SEAWESTF	9.11	1	1	0.1	0
35046	SEKR	9.11	1	1	27	-6.2
33467	SFAERP	13.8	1	1	50.5	9.9
37575	SHASTA1	13.8	1	1	120	17.3
37576	SHASTA2	13.8	2	1	120	17.3
37577	SHASTA3	13.8	3	1	120	17.4
37578	SHASTA4	13.8	4	1	120	17.4
37579	SHASTA5	13.8	5	0	0	0
33141	SHELL 1	12.47	1	1	20	1.9
33142	SHELL 2	12.47	1	1	40	2
33143	SHELL 3	12.47	1	1	40	1.9
32177	SHILO	34.5	2	1	150	-63.8
32176	SHILOH	34.5	1	1	140	0
33808	SJ COGEN	13.8	1	1	45.2	23.4
35861	SJ-SCL W	9.11	1	1	5	0
34631	SJ2GEN	9.11	1	1	2	0
34633	SJ3GEN	9.11	1	1	1	0
36209	SLD ENRG	12.47	1	0	13.4	2.5
35050	SLR-TANN	9.11	1	1	14.9	8.5
31832	SLY.CR.	9.11	1	1	9.5	-2
33462	SMATO1SC	13.2	1	1	0	25
33460	SMATO2SC	13.2	1	1	0	19.7
33461	SMATO3SC	13.2	1	1	0	20
31800	SMPSN-AN	12.47	1	1	42	0.4
31430	SMUDGE01	13.8	1	1	33	10.9
36414	SO VAFB	12.47	5	0	0	1.7
36414	SO VAFB	12.47	3	0	3	1.3
36414	SO VAFB	12.47	2	0	3	1.3
36414	SO VAFB	12.47	4	0	0	1.7
36414	SO VAFB	12.47	1	0	3	1.3
32169	SOLANOWP	21	1	1	99	0
31446	SONMA LF	9.11	1	1	4	0

BUS-NO	NAME1	KV1	ID	ST	PGEN	QGEN
31808	CRBOU2-3	11.5	1	1	20	12.4
31808	CRBOU2-3	11.5	2	1	20	11.6
31810	CRBU 1	11.5	1	1	20	-6.1
31782	CRBU 4-5	13.8	2	1	56	15.8
31782	CRBU 4-5	13.8	1	1	55	15.8
32900	CRCKTCOG	18	1	1	240	44.1
32175	CREEDGT1	13.8	3	1	46.3	-5.3
31812	CRESTA	11.5	1	1	28	7.5
31812	CRESTA	11.5	2	1	28	7.5
31842	CSC HYDR	9.11	2	1	0.3	0
31842	CSC HYDR	9.11	1	0	0	-1
32164	CTY FAIR	9.11	2	1	1.5	0.1
32164	CTY FAIR	9.11	1	1	0.8	0.1
32921	ChevGen1	13.8	1	1	54	34.2
32922	ChevGen2	13.8	1	1	54	34.2
36854	Cogen	12	1	1	3.3	-1.9
36854	Cogen	12	2	1	3.5	-1.9
38562	DAWSON	4.16	1	1	3.3	0
31898	DE SABLA	6.9	1	1	14.5	1.7
31862	DEADWOOD	9.11	1	0	0	0.2
33108	DEC CTG1	18	1	1	200	49.3
33109	DEC CTG2	18	1	1	200	49.3
33110	DEC CTG3	18	1	1	200	49.3
33107	DEC STG1	24	1	1	280	69.1
32474	DEER CRK	9.11	1	1	3.1	-2.2
38820	DELTA A	13.2	2	0	0	0
38820	DELTA A	13.2	1	0	0	0
38820	DELTA A	13.2	3	0	0	0
38815	DELTA B	13.2	5	0	0	0
38815	DELTA B	13.2	4	0	0	0
38770	DELTA C	13.2	7	0	0	0
38770	DELTA C	13.2	6	0	0	0
38765	DELTA D	13.2	8	0	0	0
38765	DELTA D	13.2	9	0	0	0
38760	DELTA E	13.2	10	0	0	0
38760	DELTA E	13.2	11	1	-1	0
35024	DEXEL +	13.8	1	1	27.5	16.5
34186	DG_PAN1	13.8	1	1	49	-19.2
32150	DG_VADIX	13.8	1	1	49	8.7
36411	DIABLO 1	25	1	1	1200	-32.2
36412	DIABLO 2	25	1	1	1200	-19.1
34648	DINUBA E	13.8	1	1	11	6.8
35062	DISCOVERY	13.8	1	1	44	22
34058	DONNELLS	13.8	1	1	64.2	-8.2
38550	DONPDRO1	13.8	1	1	35	1.5
38552	DONPDRO2	13.8	1	1	35	0.8
38350	DONPDRO3	13.8	1	1	49.9	-1.2

BUS-NO	NAME1	KV1	ID	ST	PGEN	QGEN
35040	KERNRDGE	9.11	2	1	9	5
37559	KESWICK1	6.9	1	1	31	5
37556	KESWICK2	6.9	2	1	31	5
37557	KESWICK3	6.9	3	0	0	0
31828	KILRC1-2	9.11	2	1	1	0
31828	KILRC1-2	9.11	1	1	1	0
34642	KINGSBUR	9.11	1	1	34	17.3
34616	KINGSRIV	13.8	1	1	47	9
36980	KIRKWD 1	13.8	1	1	19	2.9
36982	KIRKWD 2	13.8	1	1	19	2.9
36984	KIRKWD 3	13.8	1	1	19	-0.1
34671	KRCDPCT1	13.8	1	1	50	3
34672	KRCDPCT2	13.8	1	1	50	3
38560	LA GRNGE	4.16	1	1	3.2	0
32173	LAMBG1	13.8	1	1	46.3	-6.9
35070	LAPLM_G1	21	1	1	230	72.7
35071	LAPLM_G2	21	1	1	230	72.7
35072	LAPLM_G3	21	1	1	229	72.5
35073	LAPLM_G4	21	1	1	230	72.7
35854	LECEFGT1	13.8	1	1	50	37
35855	LECEFGT2	13.8	1	1	50	37
35856	LECEFGT3	13.8	1	1	50	37
35857	LECEFGT4	13.8	1	1	50	37
35858	LECEFGT1	13.8	1	1	140	39.9
35310	LFC FIN+	9.11	1	0	0	0
33112	LMECCT1	18	1	1	150	1
33111	LMECCT2	18	1	1	150	1
33113	LMECST1	18	1	1	200	5.1
38120	LODI25CT	9.11	1	0	21.1	12.4
37308	LOON LK	13.8	1	1	70	6.6
31158	LP SAMOA	12.47	1	1	12	11.4
34179	MADERA_G	13.8	1	1	28.6	0.9
31764	MALCHA	13.8	1	1	12.5	16
31550	MC ARTHR	60	BV	1	7.5	-2.3
34618	MCCALL1T	13.2	1	1	0	-0.2
34621	MCCALL3T	13.2	1	1	0	-5.7
37309	MCCLLELN	13.8	1	1	60	16.6
38352	MCCLURE1	13.8	1	1	35	1.9
38354	MCCLURE2	13.8	1	1	35	1.9
36990	MCSN CK1	13.8	1	1	25	0.9
36992	MCSN CK2	13.8	1	1	25	0.9
34320	MCSWAIN	9.11	1	1	9	2
35881	MEC CTG1	18	1	1	180	50.2
35882	MEC CTG2	18	1	1	180	50.2
35883	MEC STG1	18	1	1	200	51.7
37561	MELONE1	13.8	1	1	119	25.7
37562	MELONE2	13.8	2	0	0	0

BUS-NO	NAME1	KV1	ID	ST	PGEN	QGEN
31826	SOUTH G	4.16	1	1	6.9	-0.8
33810	SP CMPNY	13.8	1	1	37.7	13.4
32472	SPAULDG	9.11	2	1	4.2	-1
32472	SPAULDG	9.11	1	1	7	-2.9
32472	SPAULDG	9.11	3	1	1.7	-2
36940	SPI	2.4	1	0	10.5	0.5
31874	SPI-BURN	9.11	1	1	15.8	2.4
31880	SPI-HAYF	9.11	1	0	6.8	-2.8
31896	SPI-QUCY	9.11	1	1	19	-1.3
31896	SPI-QUCY	9.11	2	0	0	-0.6
38100	SPICER	21	1	1	3.3	-4.8
32498	SPILINCF	12.5	1	1	18.3	3.8
31471	SPI_AND1	9.1	1	1	4	-2.5
37581	SPRINGCR	13.8	2	1	91	35.3
37581	SPRINGCR	13.8	1	1	91	35.3
34078	SPRNG GP	6	1	1	3.9	3.7
33468	SRI INTL	9.11	1	1	4.3	3
37315	SRWTPA	13.8	2	1	10	8.4
37315	SRWTPA	13.8	1	1	40	8.4
37316	SRWTPB	13.8	1	1	40	12.7
36416	ST MARIA	9.11	1	1	8	5
34062	STANISLS	13.8	1	1	63.9	15
33139	STAUFER	9.11	1	1	2	-1
38114	STIG CC	13.8	1	1	48.2	24.2
33687	STKTN WW	60	1	1	1.5	0.2
34056	STNSLSRP	13.8	1	1	16.3	4.9
35004	SUNSET G	13.8	3	1	75	1.4
35004	SUNSET G	13.8	2	1	75	1.4
35004	SUNSET G	13.8	1	1	75	1.4
37521	SUTTER1	18	1	1	160	4.3
37522	SUTTER2	18	2	1	160	4.3
37523	SUTTER3	18	3	1	160	4.3
30620	TESL_GT1	18	1	1	173	55.5
30621	TESL_GT2	18	1	1	173	55.5
30623	TESL_GT3	18	1	0	173	71.5
30629	TESL_GT4	18	1	0	173	71.5
30641	TESL_ST1	18	1	1	232	74.5
30642	TESL_ST2	18	1	0	232	94.6
34783	TEXCO_NM	9.11	1	1	5.4	5.5
34783	TEXCO_NM	9.11	2	1	2.7	5
35074	TEXSUN1G	18	1	1	169	8.3
35075	TEXSUN2G	18	1	1	169	8.3
35079	TEXSUNST	18	1	1	222	55.6
33806	TH.E.DV.	13.8	1	1	19.6	4.8
38700	THERMLT1	13.8	1	1	32	3.2
38705	THERMLT2	13.8	1	1	27	3.1
38710	THERMLT3	13.8	1	1	27	3.1

BUS-NO	NAME1	KV1	ID	ST	PGEN	QGEN
31808	CRBOU2-3	11.5	1	1	20	12.4
31808	CRBOU2-3	11.5	2	1	20	11.6
31810	CRBU 1	11.5	1	1	20	-6.1
31782	CRBU 4-5	13.8	2	1	56	15.8
31782	CRBU 4-5	13.8	1	1	55	15.8
32900	CRCKTCOG	18	1	1	240	44.1
32175	CREEDGT1	13.8	3	1	46.3	-5.3
31812	CRESTA	11.5	1	1	28	7.5
31812	CRESTA	11.5	2	1	28	7.5
31842	CSC HYDR	9.11	2	1	0.3	0
31842	CSC HYDR	9.11	1	0	0	-1
32164	CTY FAIR	9.11	2	1	1.5	0.1
32164	CTY FAIR	9.11	1	1	0.8	0.1
32921	ChevGen1	13.8	1	1	54	34.2
32922	ChevGen2	13.8	1	1	54	34.2
36854	Cogen	12	1	1	3.3	-1.9
36854	Cogen	12	2	1	3.5	-1.9
38562	DAWSON	4.16	1	1	3.3	0
31898	DE SABLA	6.9	1	1	14.5	1.7
31862	DEADWOOD	9.11	1	0	0	0.2
33108	DEC CTG1	18	1	1	200	49.3
33109	DEC CTG2	18	1	1	200	49.3
33110	DEC CTG3	18	1	1	200	49.3
33107	DEC STG1	24	1	1	280	69.1
32474	DEER CRK	9.11	1	1	3.1	-2.2
38820	DELTA A	13.2	2	0	0	0
38820	DELTA A	13.2	1	0	0	0
38820	DELTA A	13.2	3	0	0	0
38815	DELTA B	13.2	5	0	0	0
38815	DELTA B	13.2	4	0	0	0
38770	DELTA C	13.2	7	0	0	0
38770	DELTA C	13.2	6	0	0	0
38765	DELTA D	13.2	8	0	0	0
38765	DELTA D	13.2	9	0	0	0
38760	DELTA E	13.2	10	0	0	0
38760	DELTA E	13.2	11	1	-1	0
35024	DEXEL +	13.8	1	1	27.5	16.5
34186	DG_PAN1	13.8	1	1	49	-19.2
32150	DG_VADIX	13.8	1	1	49	8.7
36411	DIABLO 1	25	1	1	1200	-32.2
36412	DIABLO 2	25	1	1	1200	-19.1
34648	DINUBA E	13.8	1	1	11	6.8
35062	DISCOVERY	13.8	1	1	44	22
34058	DONNELLS	13.8	1	1	64.2	-8.2
38550	DONPDRO1	13.8	1	1	35	1.5
38552	DONPDRO2	13.8	1	1	35	0.8
38350	DONPDRO3	13.8	1	1	49.9	-1.2

BUS-NO	NAME1	KV1	ID	ST	PGEN	QGEN
35040	KERNRDGE	9.11	2	1	9	5
37559	KESWICK1	6.9	1	1	31	5
37556	KESWICK2	6.9	2	1	31	5
37557	KESWICK3	6.9	3	0	0	0
31828	KILRC1-2	9.11	2	1	1	0
31828	KILRC1-2	9.11	1	1	1	0
34642	KINGSBUR	9.11	1	1	34	17.3
34616	KINGSRIV	13.8	1	1	47	9
36980	KIRKWD 1	13.8	1	1	19	2.9
36982	KIRKWD 2	13.8	1	1	19	2.9
36984	KIRKWD 3	13.8	1	1	19	-0.1
34671	KRCDPCT1	13.8	1	1	50	3
34672	KRCDPCT2	13.8	1	1	50	3
38560	LA GRNGE	4.16	1	1	3.2	0
32173	LAMBG1	13.8	1	1	46.3	-6.9
35070	LAPLM_G1	21	1	1	230	72.7
35071	LAPLM_G2	21	1	1	230	72.7
35072	LAPLM_G3	21	1	1	229	72.5
35073	LAPLM_G4	21	1	1	230	72.7
35854	LECEFGT1	13.8	1	1	50	37
35855	LECEFGT2	13.8	1	1	50	37
35856	LECEFGT3	13.8	1	1	50	37
35857	LECEFGT4	13.8	1	1	50	37
35858	LECEFGT1	13.8	1	1	140	39.9
35310	LFC FIN+	9.11	1	0	0	0
33112	LMECCT1	18	1	1	150	1
33111	LMECCT2	18	1	1	150	1
33113	LMECST1	18	1	1	200	5.1
38120	LODI25CT	9.11	1	0	21.1	12.4
37308	LOON LK	13.8	1	1	70	6.6
31158	LP SAMOA	12.47	1	1	12	11.4
34179	MADERA_G	13.8	1	1	28.6	0.9
31764	MALCHA	13.8	1	1	12.5	16
31550	MC ARTHR	60 BV	1	7.5	-2.3	
34618	MCCALL1T	13.2	1	1	0	-0.2
34621	MCCALL3T	13.2	1	1	0	-5.7
37309	MCCLLELN	13.8	1	1	60	16.6
38352	MCCLURE1	13.8	1	1	35	1.9
38354	MCCLURE2	13.8	1	1	35	1.9
36990	MCSN CK1	13.8	1	1	25	0.9
36992	MCSN CK2	13.8	1	1	25	0.9
34320	MCSWAIN	9.11	1	1	9	2
35881	MEC CTG1	18	1	1	180	50.2
35882	MEC CTG2	18	1	1	180	50.2
35883	MEC STG1	18	1	1	200	51.7
37561	MELONE1	13.8	1	1	119	25.7
37562	MELONE2	13.8	2	0	0	0

BUS-NO	NAME1	KV1	ID	ST	PGEN	QGEN
31826	SOUTH G	4.16	1	1	6.9	-0.8
33810	SP CMPNY	13.8	1	1	37.7	13.4
32472	SPAULDG	9.11	2	1	4.2	-1
32472	SPAULDG	9.11	1	1	7	-2.9
32472	SPAULDG	9.11	3	1	1.7	-2
36940	SPI	2.4	1	0	10.5	0.5
31874	SPI-BURN	9.11	1	1	15.8	2.4
31880	SPI-HAYF	9.11	1	0	6.8	-2.8
31896	SPI-QUCY	9.11	1	1	19	-1.3
31896	SPI-QUCY	9.11	2	0	0	-0.6
38100	SPICER	21	1	1	3.3	-4.8
32498	SPILINCF	12.5	1	1	18.3	3.8
31471	SPI_AND1	9.1	1	1	4	-2.5
37581	SPRINGCR	13.8	2	1	91	35.3
37581	SPRINGCR	13.8	1	1	91	35.3
34078	SPRNG GP	6	1	1	3.9	3.7
33468	SRI INTL	9.11	1	1	4.3	3
37315	SRWTPA	13.8	2	1	10	8.4
37315	SRWTPA	13.8	1	1	40	8.4
37316	SRWTPB	13.8	1	1	40	12.7
36416	ST MARIA	9.11	1	1	8	5
34062	STANISLS	13.8	1	1	63.9	15
33139	STAUFER	9.11	1	1	2	-1
38114	STIG CC	13.8	1	1	48.2	24.2
33687	STKTN WW	60	1	1	1.5	0.2
34056	STNSLSRP	13.8	1	1	16.3	4.9
35004	SUNSET G	13.8	3	1	75	1.4
35004	SUNSET G	13.8	2	1	75	1.4
35004	SUNSET G	13.8	1	1	75	1.4
37521	SUTTER1	18	1	1	160	4.3
37522	SUTTER2	18	2	1	160	4.3
37523	SUTTER3	18	3	1	160	4.3
30620	TESL_GT1	18	1	1	173	55.5
30621	TESL_GT2	18	1	1	173	55.5
30623	TESL_GT3	18	1	0	173	71.5
30629	TESL_GT4	18	1	0	173	71.5
30641	TESL_ST1	18	1	1	232	74.5
30642	TESL_ST2	18	1	0	232	94.6
34783	TEXCO_NM	9.11	1	1	5.4	5.5
34783	TEXCO_NM	9.11	2	1	2.7	5
35074	TEXSUN1G	18	1	1	169	8.3
35075	TEXSUN2G	18	1	1	169	8.3
35079	TEXSUNST	18	1	1	222	55.6
33806	TH.E.DV.	13.8	1	1	19.6	4.8
38700	THERMLT1	13.8	1	1	32	3.2
38705	THERMLT2	13.8	1	1	27	3.1
38710	THERMLT3	13.8	1	1	27	3.1

BUS-NO	NAME1	KV1	ID	ST	PGEN	QGEN
38554	DONPDRO4	13.8	1	1	20	0.7
38750	DOS AMG1	13.2	2	1	-30	0
38750	DOS AMG1	13.2	3	1	-30	0
38750	DOS AMG1	13.2	1	1	-30	0
38755	DOS AMG2	13.2	3	0	0	0
38755	DOS AMG2	13.2	1	0	0	0
38755	DOS AMG2	13.2	2	0	0	0
35023	DOUBLE C	13.8	1	1	42.5	1.9
33161	DOWCHEM1	13.8	1	1	15.3	2.4
33162	DOWCHEM2	13.8	1	1	22	8
33163	DOWCHEM3	13.8	1	1	22	8
32504	DRUM 1-2	6.6	1	1	12.5	4.3
32504	DRUM 1-2	6.6	2	1	12.5	4.3
32506	DRUM 3-4	6.6	2	1	13.2	4.3
32506	DRUM 3-4	6.6	1	1	12.5	4.3
32454	DRUM 5	13.8	1	1	42.5	12
32464	DTCHFLT1	11	1	1	22	9
32502	DTCHFLT2	6.9	1	1	24.5	4.1
36221	DUKMOSS1	18	1	0	0	16.3
36222	DUKMOSS2	18	1	0	0	16.3
36223	DUKMOSS3	18	1	0	0	15.9
36224	DUKMOSS4	18	1	0	0	16.6
36225	DUKMOSS5	18	1	0	0	16.6
36226	DUKMOSS6	18	1	0	0	16.2
36863	DVRaGT1	13.8	1	1	45	-5.7
36865	DVRaST3	13.8	1	1	30	-6.9
36864	DVRbGT2	13.8	1	1	45	-6.2
32513	ELDRADO1	21.6	1	1	10	-2.7
32514	ELDRADO2	21.6	1	1	10	-2.7
33812	ELECTRA	13.8	1	1	29	5.9
33812	ELECTRA	13.8	2	1	29	5.9
33812	ELECTRA	13.8	3	1	29	5.9
35076	ELKHIL1G	18	1	1	166.8	58.2
35077	ELKHIL2G	18	1	1	166.8	58.2
35078	ELKHIL3G	18	1	1	225.5	63.1
34330	ELNIDO	13.8	1	1	12.5	2.6
32168	ENXCO	9.11	2	1	40	0
34306	EXCHQUER	13.8	1	1	94.5	1.2
30464	EXXON_BH	12.47	1	1	52	24.1
31150	FAIRHAVN	13.8	1	1	15.9	2.7
33917	FBERBORD	115	1	1	3.2	-2.2
33840	FLOWD3-6	9.11	1	1	1.3	0
33840	FLOWD3-6	9.11	4	1	1.1	0
33840	FLOWD3-6	9.11	3	0	0	0
33840	FLOWD3-6	9.11	2	0	0	0
33840	FLOWD3-6	9.11	5	0	0	0
35318	FLOWDPTR	9.11	1	0	0	0

BUS-NO	NAME1	KV1	ID	ST	PGEN	QGEN
34322	MERCEDFL	9.11	1	1	3.5	2
32456	MIDLFORK	13.8	1	1	64.5	10.3
32456	MIDLFORK	13.8	2	1	64.5	10.3
35034	MIDSUN +	13.8	1	1	24.5	15.2
99991	MIR_CT1	16.5	1	1	218.5	71
99993	MIR_CT2	16.5	3	1	218.5	71
99997	MIR_CT_1	16.5	1	0	208.5	60.9
99999	MIR_CT_2	16.5	3	0	208	60.8
99987	MIR_CT_3	16.5	5	0	208	62.9
99988	MIR_CT_4	16.5	6	0	208	-22.6
99992	MIR_ST1	13.8	2	1	64	20.6
99994	MIR_ST2	13.8	4	1	64	20.6
99998	MIR_ST_1	13.8	2	0	61	17.3
99984	MIR_ST_2	13.8	4	0	61	17.3
32700	MONTICLO	9.11	3	0	0	0
32700	MONTICLO	9.11	2	1	4.7	0
32700	MONTICLO	9.11	1	1	4.7	0
36407	MORRO 1	18	1	0	148	-32.1
36408	MORRO 2	18	1	0	157.3	-31.1
36409	MORRO 3	18	1	0	330	39.2
36410	MORRO 4	18	1	1	78.5	37.7
36405	MOSSLND6	22	1	0	750	64.4
36406	MOSSLND7	22	1	1	750	13.2
33121	MRAGA 1T	13.2	1	1	0	48
33122	MRAGA 2T	13.2	1	1	0	48
33123	MRAGA 3T	13.2	1	0	0	26.5
35036	MT POSO	13.8	1	1	44	20
38365	N.HGN DM	12	2	1	1.5	0
38365	N.HGN DM	12	1	1	1.5	0
32466	NARROWS1	11	1	1	10	3.3
32468	NARROWS2	9.11	1	1	45	1.8
35064	NAVY 35R	9.11	2	1	22	12
35064	NAVY 35R	9.11	1	1	22	12
38106	NCPA1GY1	13.8	1	1	35	3.6
38108	NCPA1GY2	13.8	1	1	35	3.6
38110	NCPA2GY1	13.8	1	1	36	3
38112	NCPA2GY2	13.8	1	1	36	3
31621	NEO REDB	13.8	1	1	50	5.9
32460	NEWCASTLE	13.2	1	0	0	1.5
37645	NIMBUS12	4.2	1	1	6	3.6
37645	NIMBUS12	4.2	2	0	0	0
32901	OAKLND 1	13.8	1	1	50	-2.4
32902	OAKLND 2	13.8	1	1	50	2
32903	OAKLND 3	13.8	1	1	50	0.9
35028	OILDALE	9.11	1	1	32	-10
35860	OLS-AGNE	9.11	1	1	29.6	6.6
31854	OLSEN +4	9.11	1	0	0	-0.1

BUS-NO	NAME1	KV1	ID	ST	PGEN	QGEN
38715	THERMLT4	13.8	1	1	27	3.1
33822	TIGR CRK	11	1	1	26.7	0.8
33822	TIGR CRK	11	2	1	27	0.8
31855	TKO	9.11	3	1	0.7	1.5
31836	TOAD TWN	9.11	1	1	0.9	0
37590	TRINITY12	13.8	2	1	53	23.6
37590	TRINITY12	13.8	1	1	53	23.6
33171	TRSVQ+NW	9.11	1	0	20	0
33171	TRSVQ+NW	9.11	2	0	10	0
34076	TULLOCH	6.9	2	1	8.3	1
34076	TULLOCH	6.9	1	1	8.3	1
35044	TX MIDST	9.11	1	1	33.4	4.2
35056	TX-LOSTH	4.16	1	1	9	2.8
32166	UC DAVIS	9.11	1	1	3.5	-1.2
37320	UCDMC	12.5	1	1	25	1
35035	ULTR PWR	13.2	1	1	34.5	15
32500	ULTR RCK	9.11	1	1	22.1	12
34640	ULTR.PWR	9.11	1	1	14.5	13
31156	ULTRAPWR	12.47	1	0	10	3
32920	UNION CH	9.11	1	1	20.4	-9
36413	UNION OL	13.8	1	1	5	2.8
37317	UNIONVLY	13.8	1	1	40	14.2
35037	UNIVRSTY	9.11	1	1	33.7	8
32910	UNOCAL	12	2	1	15.7	8.3
32910	UNOCAL	12	1	1	15.7	8.3
32910	UNOCAL	12	3	1	15.7	8.3
33466	UNTED CO	9.11	1	1	28.2	10.1
35320	USW FRIC	12	1	1	2.6	0
35320	USW FRIC	12	2	0	0	0
33838	USWP_#3	9.11	1	0	0	0
33836	USWP_#4	9.11	2	0	0	0
33836	USWP_#4	9.11	1	0	0	0
33836	USWP_#4	9.11	3	1	4.5	0
31824	VOLTA1-2	9.11	2	1	0.9	0.2
31824	VOLTA1-2	9.11	1	1	7.8	0.2
38951	VSC_POTR	180.5	1	1	401.4	72
38950	VSC_PTSB	180.5	1	1	-413	-91.1
32154	WADHAM	9.11	1	1	22.8	2.1
35314	WALKER+	9.11	1	0	0	0
38556	WALNT1CT	13.8	1	0	24	0
38558	WALNT2CT	13.8	1	0	24	0
31852	WEBR FL+	9.11	1	0	0	0
38570	WEC1-CT	13.8	1	1	73.2	23.1
38574	WEC2-CT	13.8	1	1	73.2	20.9
38572	WEC3-ST	13.8	1	1	89.2	23
31404	WEST FOR	13.8	1	1	12.1	5.8
31404	WEST FOR	13.8	2	1	12	5.8

BUS-NO	NAME1	KV1	ID	ST	PGEN	QGEN
37549	FOLSOM1	13.8	1	1	50	22
37550	FOLSOM2	13.8	2	1	50	22
37551	FOLSOM3	13.8	3	1	50	22
31814	FORBSTWN	11.5	1	1	30	0.5
31870	FORKBUTT	9.11	1	0	0	-1
31870	FORKBUTT	9.11	2	0	0	-0.6
33151	FOSTER W	12.47	2	1	45.4	24.1
33151	FOSTER W	12.47	1	1	45.4	24.1
33151	FOSTER W	12.47	3	1	35	21
32451	FREC	13.8	1	1	50	6.3
34485	FRESNOWW	12.47	1	1	9	0
34636	FRIANTDM	6.6	4	0	2.3	0.4
34636	FRIANTDM	6.6	2	1	14.7	1.5
34636	FRIANTDM	6.6	3	1	7.8	1.5
35048	FRITOLAY	9.11	1	1	4.3	3.8
32508	FRNCH MD	4.16	1	1	16.4	2.6
33118	GATEWAY1	18	1	1	200	-14.1
33119	GATEWAY2	18	1	1	195	-12
33120	GATEWAY3	18	1	1	195	-12
33830	GEN.MILL	9.11	1	1	2.5	1.5
31435	GEO.ENG	9.11	2	1	8.9	-3
31435	GEO.ENG	9.11	1	1	8.9	-3
31822	GERBER F	9.11	1	0	0	0
31412	GEYSER11	13.8	1	1	60	25.8
31414	GEYSER12	13.8	1	1	31	5.8
31416	GEYSER13	13.8	1	1	68	23.6
31418	GEYSER14	13.8	1	1	54	6
31420	GEYSER16	13.8	1	1	64	12.1
31422	GEYSER17	13.8	1	1	36	17.9
31424	GEYSER18	13.8	1	1	56	12.7
31426	GEYSER20	13.8	1	1	52	7.4
31408	GEYSER78	13.8	1	1	39	13.6
31408	GEYSER78	13.8	2	1	32	13.6
31406	GEYSR5-6	13.8	2	1	39	14.2
31406	GEYSR5-6	13.8	1	1	39	14.2
35850	GLRY COG	13.8	1	1	80.5	15.4
35850	GLRY COG	13.8	2	1	41.5	15.4
32174	GOOSEHGT	13.8	2	1	46.3	-5.3
31900	GRIZZLYG	6.9	1	1	16.8	-4
32490	GRNLEAF1	13.8	2	1	9.5	-9.8
32490	GRNLEAF1	13.8	1	1	40	-9.8
32492	GRNLEAF2	13.8	1	1	49	17.8
35851	GROYPKR1	13.8	1	1	48.7	-6.6

BUS-NO	NAME1	KV1	ID	ST	PGEN	QGEN
34316	ONEILPMP	9.11	1	1	0.5	0
31888	OROVILLE	9.11	1	1	8.5	-2.5
32484	OXBOW F	9.11	1	1	5.4	1.9
33469	OX_MTN	4.16	5	0	1.9	0
33469	OX_MTN	4.16	1	0	1.9	0
33469	OX_MTN	4.16	4	0	1.9	0
33469	OX_MTN	4.16	3	0	1.9	0
33469	OX_MTN	4.16	6	0	1.9	0
33469	OX_MTN	4.16	7	0	1.9	0
33469	OX_MTN	4.16	2	0	1.9	0
34326	P0435BS1	13.8	2	1	102.5	22.4
34326	P0435BS1	13.8	1	1	102.5	22.4
34327	P0435BS2	13.8	3	1	102.5	22.4
34327	P0435BS2	13.8	4	1	102.5	22.4
31884	PAC.ENG	9.11	1	1	9	5.5
31152	PAC.LUMB	13.8	2	1	12.5	-5.5
31152	PAC.LUMB	13.8	1	1	12.5	-5.5
31153	PAC.LUMB	2.4	3	1	7.5	0.3
33848	PARDE 2	7.2	1	1	8	-1.5
33842	PATTERSN	9.11	4	0	0	0
33842	PATTERSN	9.11	3	0	0	0
33842	PATTERSN	9.11	1	0	0	0
33842	PATTERSN	9.11	2	0	0	0
31892	PE.WWOOD	9.11	1	1	10.5	4
38720	PINE FLT	13.8	2	0	0	20.8
38720	PINE FLT	13.8	3	0	0	13.9
38720	PINE FLT	13.8	1	1	57	23.3
31818	PIT 1 U1	11	2	1	20	-23.7
31818	PIT 1 U1	11	1	1	20	-23.5
31802	PIT 3	11.5	3	1	18	2.3
31802	PIT 3	11.5	1	1	18	2.3
31802	PIT 3	11.5	2	1	18	2.3
31766	PIT 4	13.8	2	1	44	3.4
31766	PIT 4	13.8	1	1	44	3.4
31804	PIT 5 U1	11.5	2	1	35	2.6
31804	PIT 5 U1	11.5	1	1	35	2.6
31806	PIT 5 U2	11.5	2	1	35	2.6
31806	PIT 5 U2	11.5	1	1	35	2.6
31772	PIT 6 U1	13.8	1	1	35	3.4
31774	PIT 6 U2	13.8	1	1	35	3.4
31776	PIT 7 U1	13.8	1	1	52	5.3
31778	PIT 7 U2	13.8	1	1	52	5.3
31890	PO POWER	9.11	2	1	7	-2.5

BUS-NO	NAME1	KV1	ID	ST	PGEN	QGEN
33820	WEST PNT	11.5	1	1	13.6	7
34553	WHD_GAT2	13.8	1	1	49	-25.3
34142	WHD_PAN2	13.8	1	1	49	-13.7
31465	WHEELBR1	9.1	3	1	16.6	-0.9
31465	WHEELBR1	9.1	1	1	16.6	-0.9
31465	WHEELBR1	9.1	4	1	7.8	-0.9
31465	WHEELBR1	9.1	2	1	16.6	-0.9
37318	WHITERK1	13.8	1	1	80	30.6
37319	WHITERK2	13.8	1	1	80	30.8
38785	WHLR RD1	13.2	2	0	0	0
38785	WHLR RD1	13.2	4	0	0	0
38785	WHLR RD1	13.2	3	0	0	0
38785	WHLR RD1	13.2	1	0	0	0
38785	WHLR RD1	13.2	5	0	0	0
38790	WHLR RD2	13.2	3	0	-15	0
38790	WHLR RD2	13.2	1	0	-15	0
38790	WHLR RD2	13.2	2	0	-15	0
38790	WHLR RD2	13.2	4	0	-8	0
36934	WIN&AMDE	9.11	1	0	0	2
36934	WIN&AMDE	9.11	2	1	0.6	0.1
38795	WINDGAP1	13.2	2	1	-15	0
38795	WINDGAP1	13.2	1	1	-16	0
38795	WINDGAP1	13.2	3	0	0	0
38800	WINDGAP2	13.2	1	1	-33	0
38800	WINDGAP2	13.2	2	1	-33	0
38805	WINDGAP3	13.2	2	0	0	0
38805	WINDGAP3	13.2	1	1	-33	0
38810	WINDGAP4	13.2	1	0	0	0
38810	WINDGAP4	13.2	2	0	0	0
33170	WINDMSTR	9.11	1	0	0	0
32512	WISE	12	1	1	11.1	-0.7
34658	WISHON	2.3	4	1	4.5	1
34658	WISHON	2.3	SJ	0	0	0
34658	WISHON	2.3	3	1	4.5	1
34658	WISHON	2.3	2	0	0	0.1
34658	WISHON	2.3	1	0	0	0.1
32185	WOLFSKIL	13.8	1	1	50	7.1
32156	WOODLAND	9.11	1	1	25	5
31794	WOODLEAF	13.8	1	1	55	0
38356	WOODLMID	13.8	1	1	41.1	-7.6
38357	WOODMID2	13.8	1	1	75	-19.5
32496	YCEC	13.8	1	1	50	0
32494	YUBA CTY	9.11	1	1	41.3	13.3
35316	ZOND SYS	9.11	1	0	0	0

BUS-NO	NAME1	KV1	ID	ST	PGEN	QGEN
38554	DONPDRO4	13.8	1	1	20	0.7
38750	DOS AMG1	13.2	2	1	-30	0
38750	DOS AMG1	13.2	3	1	-30	0
38750	DOS AMG1	13.2	1	1	-30	0
38755	DOS AMG2	13.2	3	0	0	0
38755	DOS AMG2	13.2	1	0	0	0
38755	DOS AMG2	13.2	2	0	0	0
35023	DOUBLE C	13.8	1	1	42.5	1.9
33161	DOWCHEM1	13.8	1	1	15.3	2.4
33162	DOWCHEM2	13.8	1	1	22	8
33163	DOWCHEM3	13.8	1	1	22	8
32504	DRUM 1-2	6.6	1	1	12.5	4.3
32504	DRUM 1-2	6.6	2	1	12.5	4.3
32506	DRUM 3-4	6.6	2	1	13.2	4.3
32506	DRUM 3-4	6.6	1	1	12.5	4.3
32454	DRUM 5	13.8	1	1	42.5	12
32464	DTCHFLT1	11	1	1	22	9
32502	DTCHFLT2	6.9	1	1	24.5	4.1
36221	DUKMOSS1	18	1	0	0	16.3
36222	DUKMOSS2	18	1	0	0	16.3
36223	DUKMOSS3	18	1	0	0	15.9
36224	DUKMOSS4	18	1	0	0	16.6
36225	DUKMOSS5	18	1	0	0	16.6
36226	DUKMOSS6	18	1	0	0	16.2
36863	DVRaGT1	13.8	1	1	45	-5.7
36865	DVRaST3	13.8	1	1	30	-6.9
36864	DVRbGT2	13.8	1	1	45	-6.2
32513	ELDRADO1	21.6	1	1	10	-2.7
32514	ELDRADO2	21.6	1	1	10	-2.7
33812	ELECTRA	13.8	1	1	29	5.9
33812	ELECTRA	13.8	2	1	29	5.9
33812	ELECTRA	13.8	3	1	29	5.9
35076	ELKHIL1G	18	1	1	166.8	58.2
35077	ELKHIL2G	18	1	1	166.8	58.2
35078	ELKHIL3G	18	1	1	225.5	63.1
34330	ELNIDO	13.8	1	1	12.5	2.6
32168	ENXCO	9.11	2	1	40	0
34306	EXCHQUER	13.8	1	1	94.5	1.2
30464	EXXON_BH	12.47	1	1	52	24.1
31150	FAIRHAVN	13.8	1	1	15.9	2.7
33917	FBERBORD	115	1	1	3.2	-2.2
33840	FLOWD3-6	9.11	1	1	1.3	0
33840	FLOWD3-6	9.11	4	1	1.1	0
33840	FLOWD3-6	9.11	3	0	0	0
33840	FLOWD3-6	9.11	2	0	0	0
33840	FLOWD3-6	9.11	5	0	0	0
35318	FLOWDPTR	9.11	1	0	0	0

BUS-NO	NAME1	KV1	ID	ST	PGEN	QGEN
34322	MERCEDFL	9.11	1	1	3.5	2
32456	MIDLFORK	13.8	1	1	64.5	10.3
32456	MIDLFORK	13.8	2	1	64.5	10.3
35034	MIDSUN +	13.8	1	1	24.5	15.2
99991	MIR_CT1	16.5	1	1	218.5	71
99993	MIR_CT2	16.5	3	1	218.5	71
99997	MIR_CT_1	16.5	1	0	208.5	60.9
99999	MIR_CT_2	16.5	3	0	208	60.8
99987	MIR_CT_3	16.5	5	0	208	62.9
99988	MIR_CT_4	16.5	6	0	208	-22.6
99992	MIR_ST1	13.8	2	1	64	20.6
99994	MIR_ST2	13.8	4	1	64	20.6
99998	MIR_ST_1	13.8	2	0	61	17.3
99984	MIR_ST_2	13.8	4	0	61	17.3
32700	MONTICLO	9.11	3	0	0	0
32700	MONTICLO	9.11	2	1	4.7	0
32700	MONTICLO	9.11	1	1	4.7	0
36407	MORRO 1	18	1	0	148	-32.1
36408	MORRO 2	18	1	0	157.3	-31.1
36409	MORRO 3	18	1	0	330	39.2
36410	MORRO 4	18	1	1	78.5	37.7
36405	MOSSLND6	22	1	0	750	64.4
36406	MOSSLND7	22	1	1	750	13.2
33121	MRAGA 1T	13.2	1	1	0	48
33122	MRAGA 2T	13.2	1	1	0	48
33123	MRAGA 3T	13.2	1	0	0	26.5
35036	MT POSO	13.8	1	1	44	20
38365	N.HGN DM	12	2	1	1.5	0
38365	N.HGN DM	12	1	1	1.5	0
32466	NARROWS1	11	1	1	10	3.3
32468	NARROWS2	9.11	1	1	45	1.8
35064	NAVY 35R	9.11	2	1	22	12
35064	NAVY 35R	9.11	1	1	22	12
38106	NCPA1GY1	13.8	1	1	35	3.6
38108	NCPA1GY2	13.8	1	1	35	3.6
38110	NCPA2GY1	13.8	1	1	36	3
38112	NCPA2GY2	13.8	1	1	36	3
31621	NEO REDB	13.8	1	1	50	5.9
32460	NEWCASTLE	13.2	1	0	0	1.5
37645	NIMBUS12	4.2	1	1	6	3.6
37645	NIMBUS12	4.2	2	0	0	0
32901	OAKLND 1	13.8	1	1	50	-2.4
32902	OAKLND 2	13.8	1	1	50	2
32903	OAKLND 3	13.8	1	1	50	0.9
35028	OILDALE	9.11	1	1	32	-10
35860	OLS-AGNE	9.11	1	1	29.6	6.6
31854	OLSEN +4	9.11	1	0	0	-0.1

BUS-NO	NAME1	KV1	ID	ST	PGEN	QGEN
38715	THERMLT4	13.8	1	1	27	3.1
33822	TIGR CRK	11	1	1	26.7	0.8
33822	TIGR CRK	11	2	1	27	0.8
31855	TKO	9.11	3	1	0.7	1.5
31836	TOAD TWN	9.11	1	1	0.9	0
37590	TRINITY12	13.8	2	1	53	23.6
37590	TRINITY12	13.8	1	1	53	23.6
33171	TRSVQ+NW	9.11	1	0	20	0
33171	TRSVQ+NW	9.11	2	0	10	0
34076	TULLOCH	6.9	2	1	8.3	1
34076	TULLOCH	6.9	1	1	8.3	1
35044	TX MIDST	9.11	1	1	33.4	4.2
35056	TX-LOSTH	4.16	1	1	9	2.8
32166	UC DAVIS	9.11	1	1	3.5	-1.2
37320	UCDMC	12.5	1	1	25	1
35035	ULTR PWR	13.2	1	1	34.5	15
32500	ULTR RCK	9.11	1	1	22.1	12
34640	ULTR.PWR	9.11	1	1	14.5	13
31156	ULTRAPWR	12.47	1	0	10	3
32920	UNION CH	9.11	1	1	20.4	-9
36413	UNION OL	13.8	1	1	5	2.8
37317	UNIONVLY	13.8	1	1	40	14.2
35037	UNIVRSTY	9.11	1	1	33.7	8
32910	UNOCAL	12	2	1	15.7	8.3
32910	UNOCAL	12	1	1	15.7	8.3
32910	UNOCAL	12	3	1	15.7	8.3
33466	UNTED CO	9.11	1	1	28.2	10.1
35320	USW FRIC	12	1	1	2.6	0
35320	USW FRIC	12	2	0	0	0
33838	USWP_#3	9.11	1	0	0	0
33836	USWP_#4	9.11	2	0	0	0
33836	USWP_#4	9.11	1	0	0	0
33836	USWP_#4	9.11	3	1	4.5	0
31824	VOLTA1-2	9.11	2	1	0.9	0.2
31824	VOLTA1-2	9.11	1	1	7.8	0.2
38951	VSC_POTR	180.5	1	1	401.4	72
38950	VSC_PTSB	180.5	1	1	-413	-91.1
32154	WADHAM	9.11	1	1	22.8	2.1
35314	WALKER+	9.11	1	0	0	0
38556	WALNT1CT	13.8	1	0	24	0
38558	WALNT2CT	13.8	1	0	24	0
31852	WEBR FL+	9.11	1	0	0	0
38570	WEC1-CT	13.8	1	1	73.2	23.1
38574	WEC2-CT	13.8	1	1	73.2	20.9
38572	WEC3-ST	13.8	1	1	89.2	23
31404	WEST FOR	13.8	1	1	12.1	5.8
31404	WEST FOR	13.8	2	1	12	5.8

BUS-NO	NAME1	KV1	ID	ST	PGEN	QGEN
37549	FOLSOM1	13.8	1	1	50	22
37550	FOLSOM2	13.8	2	1	50	22
37551	FOLSOM3	13.8	3	1	50	22
31814	FORBSTWN	11.5	1	1	30	0.5
31870	FORKBUTT	9.11	1	0	0	-1
31870	FORKBUTT	9.11	2	0	0	-0.6
33151	FOSTER W	12.47	2	1	45.4	24.1
33151	FOSTER W	12.47	1	1	45.4	24.1
33151	FOSTER W	12.47	3	1	35	21
32451	FREC	13.8	1	1	50	6.3
34485	FRESNOWW	12.47	1	1	9	0
34636	FRIANTDM	6.6	4	0	2.3	0.4
34636	FRIANTDM	6.6	2	1	14.7	1.5
34636	FRIANTDM	6.6	3	1	7.8	1.5
35048	FRITOLAY	9.11	1	1	4.3	3.8
32508	FRNCH MD	4.16	1	1	16.4	2.6
33118	GATEWAY1	18	1	1	200	-14.1
33119	GATEWAY2	18	1	1	195	-12
33120	GATEWAY3	18	1	1	195	-12
33830	GEN.MILL	9.11	1	1	2.5	1.5
31435	GEO.ENGY	9.11	2	1	8.9	-3
31435	GEO.ENGY	9.11	1	1	8.9	-3
31822	GERBER F	9.11	1	0	0	0
31412	GEYSER11	13.8	1	1	60	25.8
31414	GEYSER12	13.8	1	1	31	5.8
31416	GEYSER13	13.8	1	1	68	23.6
31418	GEYSER14	13.8	1	1	54	6
31420	GEYSER16	13.8	1	1	64	12.1
31422	GEYSER17	13.8	1	1	36	17.9
31424	GEYSER18	13.8	1	1	56	12.7
31426	GEYSER20	13.8	1	1	52	7.4
31408	GEYSER78	13.8	1	1	39	13.6
31408	GEYSER78	13.8	2	1	32	13.6
31406	GEYSR5-6	13.8	2	1	39	14.2
31406	GEYSR5-6	13.8	1	1	39	14.2
35850	GLRY COG	13.8	1	1	80.5	15.4
35850	GLRY COG	13.8	2	1	41.5	15.4
32174	GOOSEHGT	13.8	2	1	46.3	-5.3
31900	GRIZZLYG	6.9	1	1	16.8	-4
32490	GRNLEAF1	13.8	2	1	9.5	-9.8
32490	GRNLEAF1	13.8	1	1	40	-9.8
32492	GRNLEAF2	13.8	1	1	49	17.8
35851	GROYPKR1	13.8	1	1	48.7	-6.6

BUS-NO	NAME1	KV1	ID	ST	PGEN	QGEN
34316	ONEILPMP	9.11	1	1	0.5	0
31888	OROVILLE	9.11	1	1	8.5	-2.5
32484	OXBOW F	9.11	1	1	5.4	1.9
33469	OX_MTN	4.16	5	0	1.9	0
33469	OX_MTN	4.16	1	0	1.9	0
33469	OX_MTN	4.16	4	0	1.9	0
33469	OX_MTN	4.16	3	0	1.9	0
33469	OX_MTN	4.16	6	0	1.9	0
33469	OX_MTN	4.16	7	0	1.9	0
33469	OX_MTN	4.16	2	0	1.9	0
34326	P0435BS1	13.8	2	1	102.5	22.4
34326	P0435BS1	13.8	1	1	102.5	22.4
34327	P0435BS2	13.8	3	1	102.5	22.4
34327	P0435BS2	13.8	4	1	102.5	22.4
31884	PAC.ENGY	9.11	1	1	9	5.5
31152	PAC.LUMB	13.8	2	1	12.5	-5.5
31152	PAC.LUMB	13.8	1	1	12.5	-5.5
31153	PAC.LUMB	2.4	3	1	7.5	0.3
33848	PARDE 2	7.2	1	1	8	-1.5
33842	PATTERSN	9.11	4	0	0	0
33842	PATTERSN	9.11	3	0	0	0
33842	PATTERSN	9.11	1	0	0	0
33842	PATTERSN	9.11	2	0	0	0
31892	PE.WWOOD	9.11	1	1	10.5	4
38720	PINE FLT	13.8	2	0	0	20.8
38720	PINE FLT	13.8	3	0	0	13.9
38720	PINE FLT	13.8	1	1	57	23.3
31818	PIT 1 U1	11	2	1	20	-23.7
31818	PIT 1 U1	11	1	1	20	-23.5
31802	PIT 3	11.5	3	1	18	2.3
31802	PIT 3	11.5	1	1	18	2.3
31802	PIT 3	11.5	2	1	18	2.3
31766	PIT 4	13.8	2	1	44	3.4
31766	PIT 4	13.8	1	1	44	3.4
31804	PIT 5 U1	11.5	2	1	35	2.6
31804	PIT 5 U1	11.5	1	1	35	2.6
31806	PIT 5 U2	11.5	2	1	35	2.6
31806	PIT 5 U2	11.5	1	1	35	2.6
31772	PIT 6 U1	13.8	1	1	35	3.4
31774	PIT 6 U2	13.8	1	1	35	3.4
31776	PIT 7 U1	13.8	1	1	52	5.3
31778	PIT 7 U2	13.8	1	1	52	5.3
31890	PO POWER	9.11	2	1	7	-2.5

BUS-NO	NAME1	KV1	ID	ST	PGEN	QGEN
33820	WEST PNT	11.5	1	1	13.6	7
34553	WHD_GAT2	13.8	1	1	49	-25.3
34142	WHD_PAN2	13.8	1	1	49	-13.7
31465	WHEELBR1	9.1	3	1	16.6	-0.9
31465	WHEELBR1	9.1	1	1	16.6	-0.9
31465	WHEELBR1	9.1	4	1	7.8	-0.9
31465	WHEELBR1	9.1	2	1	16.6	-0.9
37318	WHITERK1	13.8	1	1	80	30.6
37319	WHITERK2	13.8	1	1	80	30.8
38785	WHLR RD1	13.2	2	0	0	0
38785	WHLR RD1	13.2	4	0	0	0
38785	WHLR RD1	13.2	3	0	0	0
38785	WHLR RD1	13.2	1	0	0	0
38785	WHLR RD1	13.2	5	0	0	0
38790	WHLR RD2	13.2	3	0	-15	0
38790	WHLR RD2	13.2	1	0	-15	0
38790	WHLR RD2	13.2	2	0	-15	0
38790	WHLR RD2	13.2	4	0	-8	0
36934	WIN&AMDE	9.11	1	0	0	2
36934	WIN&AMDE	9.11	2	1	0.6	0.1
38795	WINDGAP1	13.2	2	1	-15	0
38795	WINDGAP1	13.2	1	1	-16	0
38795	WINDGAP1	13.2	3	0	0	0
38800	WINDGAP2	13.2	1	1	-33	0
38800	WINDGAP2	13.2	2	1	-33	0
38805	WINDGAP3	13.2	2	0	0	0
38805	WINDGAP3	13.2	1	1	-33	0
38810	WINDGAP4	13.2	1	0	0	0
38810	WINDGAP4	13.2	2	0	0	0
33170	WINDMSTR	9.11	1	0	0	0
32512	WISE	12	1	1	11.1	-0.7
34658	WISHON	2.3	4	1	4.5	1
34658	WISHON	2.3	SJ	0	0	0
34658	WISHON	2.3	3	1	4.5	1
34658	WISHON	2.3	2	0	0	0.1
34658	WISHON	2.3	1	0	0	0.1
32185	WOLFSKIL	13.8	1	1	50	7.1
32156	WOODLAND	9.11	1	1	25	5
31794	WOODLEAF	13.8	1	1	55	0
38356	WOODLMID	13.8	1	1	41.1	-7.6
38357	WOODMID2	13.8	1	1	75	-19.5
32496	YCEC	13.8	1	1	50	0
32494	YUBA CTY	9.11	1	1	41.3	13.3
35316	ZOND SYS	9.11	1	0	0	0

APPENDIX 4 – Contingencies Evaluated in Study

1. [G-1] Contingencies (ISO Category “B”)

As part of this study, 99 generator contingencies were modeled. These contingencies apply to the generators in and around the Bay Area transmission system. The [G-1] contingencies that were evaluated were:

1. G-1 ALAMEDA #1 CT
2. G-1 ALAMEDA #2 CT
3. G-1 CARDINAL #1
4. G-1 CARDINAL #2
5. G-1 CATALYST
6. G-1 CCCSD
7. G-1 CHEVGEN1 13.80
8. G-1 CHEVGEN2 13.80
9. G-1 CONTRA COSTA #6
10. G-1 CONTRA COSTA #7
11. G-1 CREED
12. G-1 CROCKET
13. G-1 CSC CCA 100
14. G-1 CSC COGEN
15. G-1 CSC COGEN
16. G-1 CSC DVRaGT1
17. G-1 CSC DVRaST3
18. G-1 CSC DVRbGT2
19. G-1 CSC GIANERA 100
20. G-1 CSC GIANERA 200
21. G-1 DEC #1 CT
22. G-1 DEC #2 CT
23. G-1 DEC #3 CT
24. G-1 DEC PLANT
25. G-1 DEC STEAM UNIT
26. G-1 DOW CHEMICAL #1
27. G-1 DOW CHEMICAL #2
28. G-1 DOW CHEMICAL #3
29. G-1 FOSTER WHEELER #1
30. G-1 FOSTER WHEELER #2
31. G-1 FOSTER WHEELER #3
32. G-1 GATEWAY PLANT
33. G-1 GATEWAY UNIT 1
34. G-1 GATEWAY UNIT 2

35. G-1 GATEWAY UNIT 3
36. G-1 GILROY COGEN
37. G-1 GILROY PEAKER #1
38. G-1 GILROY PEAKER #2
39. G-1 GILROY PEAKER #3
40. G-1 GOOSEHAVEN
41. G-1 GRIZZLY (UC BERKELEY, OLS, HILLSIDE)
42. G-1 GWF #1
43. G-1 GWF #2
44. G-1 GWF #3
45. G-1 GWF #4
46. G-1 GWF #5
47. G-1 LAMBIE
48. G-1 LECEF GT1
49. G-1 LECEF GT2
50. G-1 LECEF GT3
51. G-1 LECEF GT4
52. G-1 LECEF ST
53. G-1 LMC #1 STEAM TURBINE
54. G-1 LMC CT
55. G-1 LMC CT
56. G-1 LMEC PLANT
57. G-1 WILLOW PASS PLANT
58. G-1 MEC CTG1
59. G-1 MEC CTG2
60. G-1 MEC PLANT
61. G-1 MEC STG1
62. G-1 MORAGA CONDENSER #1
63. G-1 MORAGA CONDENSER #2
64. G-1 MORAGA CONDENSER #3
65. G-1 MOSS LANDING #6
66. G-1 MOSS LANDING #7
67. G-1 OAKLAND #1
68. G-1 OAKLAND #2
69. G-1 OAKLAND #3
70. G-1 OLS AGNE
71. G-1 PITTSBURG #5
72. G-1 PITTSBURG #6
73. G-1 PITTSBURG #7
74. G-1 POTRERO #3
75. G-1 POTRERO #4 CT

76. G-1 POTRERO #5 CT
77. G-1 POTRERO #6 CT
78. G-1 REC CTG #1
79. G-1 REC CTG #2
80. G-1 REC PLANT
81. G-1 REC STG #1
82. G-1 RVEC
83. G-1 SAN MAT CONDENSER #1
84. G-1 SAN MAT CONDENSER #2
85. G-1 SAN MAT CONDENSER #3
86. G-1 SEAWESTF
87. G-1 SHELL #1
88. G-1 SHELL #2
89. G-1 SHELL #3
90. G-1 SJ-SCL W
91. G-1 SRI INTL
92. G-1 STAUFER
93. G-1 UNION CHEMICAL (TOSCO)
94. G-1 UNITED COGEN SFQF
95. G-1 UNOCAL #1
96. G-1 UNOCAL #2
97. G-1 UNOCAL #3
98. G-1 USW FRIC #1
99. G-1 USW FRIC #2

2. [N-1] Contingencies (ISO Category "B")

As part of this study, 302 single-line contingencies were evaluated. The single-line contingencies were:

1. N-1 AMES - AMES DISTRIBUTION 115kV LINE
2. N-1 ANTIOCH - CONTRA COSTA SUB 60kV LINE
3. N-1 BAHIA-MORAGA 230kV LINE
4. N-1 BAIR - COOLEY LANDING #1 60kV LINE
5. N-1 BAIR - COOLEY LANDING #2 60kV LINE
6. N-1 BAIR - COOLEY LANDING #2 60kV LINE
7. N-1 BELMONT - BAIR 115kV LINE
8. N-1 BRENTWOOD - KELSO 230kV LINE
9. N-1 BRITTON - APPLIED MATERIALS 115kV LINE
10. N-1 C.COSTA - BRENTWOOD 230kV LINE
11. N-1 C.COSTA - DELTAPMP 230kV LINE
12. N-1 C.COSTA - LS PSTAS 230kV LINE
13. N-1 CASTROVL - NEWARK 230kV LINE
14. N-1 CAYETANO-LONETREE 230kV LINE

15. N-1 CAYETANO-NDUBLIN 230kV LINE
16. N-1 CHRISTIE - FRANKLIN 60kV #2 LINE W/FLIP-FLOP TRANSFER
17. N-1 CHRISTIE - FRANKLIN W/FLIP-FLOP TRANSFER 60kV LINE
18. N-1 CHRISTIE - SOBRANTE 115kV LINE
19. N-1 CLAREMONT - OAKLAND STATION D 115kV #1 LINE
20. N-1 CLAREMONT - OAKLAND STATION D 115kV #2 LINE
21. N-1 CLAYTON - MEADOW LANE 115kV LINE
22. N-1 CONTRA COSTA - BIRDS LANDING 230kV LINE
23. N-1 CONTRA COSTA - CONTRA COSTA 8 230kV LINE
24. N-1 CONTRA COSTA - MORAGA 230kV #1 LINE
25. N-1 CONTRA COSTA - MORAGA 230kV #2 LINE
26. N-1 CONTRA COSTA SUB - BALFOUR 60kV LINE
27. N-1 CONTRA COSTA SUB - BIRDS LANDING 230kV LINE
28. N-1 CONTRA COSTA SUB - CONTRA COSTA 230kV LINE
29. N-1 CONTRA COSTA SUB - DUPONT 60kV LINE
30. N-1 CONTRA COSTA SUB - FIRBERBOARD - CROWN Z 115kV LINE
31. N-1 CONTRA COSTA SUB - FIRBERBOARD - REC 115kV LINE
32. N-1 COOLEY LANDING - LOS ALTOS 60kV LINE
33. N-1 COOLEY LANDING - PALO ALTO 115kV LINE
34. N-1 COOLEY LANDING - STANDFORD 60kV LINE (CLY LNDG-SRI)
35. N-1 COOLEY LANDING - STANDFORD 60kV LINE (SRI-MENLO)
36. N-1 CSC KIFER - DVR PP 115kV LINE
37. N-1 CSC NORTHERN - SCOTT #1 115kV LINE
38. N-1 CSC NORTHERN - SCOTT #2 115kV LINE
39. N-1 CSC NORTHERN - SSS 230kV LINE
40. N-1 CSC NORTHERN RISER - NORTHERN #1 230kV LINE
41. N-1 CSC NORTHERN RISER - NORTHERN #2 230kV LINE
42. N-1 CSC SCOTT - DVR PP 115kV LINE
43. N-1 DELTAPMP - TESLA D 230kV LINE
44. N-1 DIXON LANDING - MAYBURY - MCKEE 115kV LINE
45. N-1 DUMBARTON - NEWARK D 115kV LINE
46. N-1 EAST GRAND - SFMA #2 115kV LINE
47. N-1 EAST PORTAL - CLAIRMONT 115kV LINE
48. N-1 EAST SHORE - DUMBARTON 115kV LINE
49. N-1 EAST SHORE - MT EDEN 115kV #1 LINE
50. N-1 EAST SHORE - MT EDEN 115kV #2 LINE
51. N-1 EAST SHORE - RUSSEL ENG CENTER #1 230kV LINE
52. N-1 EAST SHORE - RUSSEL ENG CENTER #2 230kV LINE
53. N-1 EAST SHORE - SAN MATEO 230kV LINE
54. N-1 EDS GRANT - GRANT 115kV LINE
55. N-1 EL CERRITO STATION G - SOBRANTE 115kV #1 LINE
56. N-1 EL CERRITO STATION G - SOBRANTE 115kV #2 LINE
57. N-1 EMBARCADERO - MARTIN 230kV HZ-1 CABLE

58. N-1 EMBARCADERO - MARTIN 230kV HZ-2 CABLE
59. N-1 EVERGREEN - JENNINGS - MAYBURY 60kV LINE (Xfr. Senter)
60. N-1 EVERGREEN - MARKHAM - SJ B 115kV LINE (Xfr. Markham)
61. N-1 EVERGREEN - SENTER - ALMADEN 60kV LINE (Xfr. Almaden)
62. N-1 FMC - SAN JOSE B 115kV LINE
63. N-1 FULTON - GEYSERS 230kV LINE
64. N-1 FULTON - GEYSERS17 230kV LINE
65. N-1 FULTON-IGNACIO 230kV LINE
66. N-1 GILROY - LLAGAS 115kV LINE
67. N-1 GRANT - EAST SHORE 115kV #1 LINE
68. N-1 GRANT - EAST SHORE 115kV #2 LINE
69. N-1 HALF MOON BAY - HILLSDALE JCT 60kV LINE
70. N-1 HERDLYN - BALFOUR 60kV LINE
71. N-1 HICKS - METCALF 230kV LINE
72. N-1 HUNTERS POINT - MARTIN HP-1 115kV CABLE
73. N-1 HUNTERS POINT - MARTIN HP-3 115kV CABLE
74. N-1 HUNTERS POINT - MARTIN HP-4 115kV CABLE
75. N-1 HUNTERS POINT - MISSION PX-1 115kV CABLE
76. N-1 HUNTERS POINT - MISSION PX-2 115kV CABLE
77. N-1 HUNTERS POINT - POTRERO 115kV LINE
78. N-1 IGNACIO-SOBRANTE 230kV LINE
79. N-1 JEFFERSON - HILLSDALE JCT 60kV LINE
80. N-1 JEFFERSON - HILLSDALE JCT 60kV LINE
81. N-1 JEFFERSON - MARTIN 230kV LINE
82. N-1 JEFFERSON - STANFORD 60kV LINE
83. N-1 JEFFERSON - STANFORD 60kV LINE
84. N-1 JEFFERSON - WOODSIDE 60kV LINE
85. N-1 KELSO - TESLA D 230kV LINE
86. N-1 KIFER - FMC 115kV LINE
87. N-1 LAKEVILE - GEYSERS 230kV LINE
88. N-1 LAKEVILE-IGNACIO 230kV #1 LINE
89. N-1 LAKEVILE-SOBRANTE 230kV LINE
90. N-1 LAKEVILE-TULUCAY 230kV LINE
91. N-1 LAKEVILE-VACA-DIX 230kV LINE
92. N-1 LAKEWOOD - CLAYTON 115kV #2 LINE
93. N-1 LAKEWOOD - MEADOW LANE-CLAYTON 115kV LINE & EBMUD LOAD (WALNUT CREEK PP)
94. N-1 LAMBIE-BIRDS LANDING 230kV LINE
95. N-1 LAS POSITAS - VASCO 60kV LINE
96. N-1 LIVERMORE - LOS POSITAS 60kV LINE
97. N-1 LONETREE-C.COSTA 230kV LINE
98. N-1 LOS ESTEROS - AGNEW 115kV LINE
99. N-1 LOS ESTEROS - METCALF 230kV LINE
100. N-1 LOS ESTEROS - MONTAGUE 115kV LINE

101. N-1 LOS ESTEROS - TRIMBLE 115kV LINE
102. N-1 LS PSTAS - NEWARK 230kV LINE
103. N-1 MARTIN - BURLINGAME #4 115kV LINE
104. N-1 MARTIN - DAILY CITY 115kV #1 LINE
105. N-1 MARTIN - DAILY CITY 115kV #2 LINE
106. N-1 MARTIN - EAST GRAND 115kV LINE
107. N-1 MARTIN - LARKIN HY-1 115kV CABLE
108. N-1 MARTIN - MILLBREA 115kV line
109. N-1 MARTIN - SAN FRANCISCO AIRPORT #5 115kV LINE
110. N-1 MARTIN - SNEATH LANE 60kV LINE
111. N-1 MARTINEZ - SOBRANTE 115kV LINE & SHIFT ALHAMBRA LOAD TO OLEUM-MARTINEZ 115kV LINE
112. N-1 MARTINEZ D - SHELL 115kV BUS
113. N-1 MARTINEZ E - SHELL 115kV BUS
114. N-1 MAXWELL-TRACY 500kV LINE
115. N-1 METCALF - CYTE PMP 115kV LINE
116. N-1 METCALF - EDENVALE - IBM COTTLE/HARRY RD 115kV LINE (Xfr. Harry Rd)
117. N-1 METCALF - EL PATIO(-IBM BAILEY) #2 115kV LINE
118. N-1 METCALF - EL PATIO(-IBM HR) #1 115kV LINE
119. N-1 METCALF - EVERGREEN - STONE-GE #2 115kV LINE (Xfr. Stone-GE)
120. N-1 METCALF - EVERGREEN #1 115kV LINE
121. N-1 METCALF - IBM BAILY - EDENVALE 115kV LINE (Xfr. Bailey)
122. N-1 METCALF - MOSSLND 230kV #1 LINE
123. N-1 METCALF - MOSSLND 230kV #2 LINE
124. N-1 METCALF D - LLAGAS 115kV LINE
125. N-1 METCALF D - MORGAN HILL 115kV LINE
126. N-1 METCALF E - PIERCY 115kV LINE
127. N-1 METCALF E - SWIFT 115kV LINE
128. N-1 METCALF ENERGY CENTER - METCALF 230kV LINE
129. N-1 METCALF-MOSSLAND 500kV LINE
130. N-1 MILLBRAE - PACIFICA 60kV LINE
131. N-1 MILLBREA - SANPAULA #1 115kV LINE
132. N-1 MILPITAS - WAUKESHA - SWIFT 115kV LINE
133. N-1 MISSION - LARKIN XY-1 115kV CABLE
134. N-1 MONTA VISTA - BIG BASIN 60kV LINE
135. N-1 MONTA VISTA - BRITTON 115kV LINE
136. N-1 MONTA VISTA - JEFFERSON #1 230kV LINE
137. N-1 MONTA VISTA - JEFFERSON #2 230kV LINE
138. N-1 MONTA VISTA - LOS GATOS 60kV LINE
139. N-1 MONTA VISTA - LOYOLA 60kV LINE
140. N-1 MONTA VISTA - PERMANENTE 60kV LINE
141. N-1 MONTA VISTA - PHILLIPS - LAWRENCE 115kV LINE
142. N-1 MONTA VISTA - STELLING 115kV LINE
143. N-1 MONTA VISTA - WHISMAN 115kV LINE

144. N-1 MONTA VISTA - WOLF 115kV LINE
145. N-1 MONTAVIS - HICKS 230kV LINE
146. N-1 MONTAVIS - METCALF 230kV #3 LINE
147. N-1 MONTAVIS - METCALF ENERGY CENTER 230kV LINE
148. N-1 MONTAVIS - SARATOGA 230kV LINE
149. N-1 MORAGA - CASTROVL 230kV LINE
150. N-1 MORAGA - CLAREMONT 115kV #1 LINE
151. N-1 MORAGA - CLAREMONT 115kV #2 LINE
152. N-1 MORAGA - LAKEWOOD REACTORS 115kV LINE (ISOLATE CLAYTON FROM MORAGA)
153. N-1 MORAGA - OAKLAND STATION J 115kV LINE
154. N-1 MORAGA - OAKLAND STATION X 115kV #1 LINE
155. N-1 MORAGA - OAKLAND STATION X 115kV #2 LINE
156. N-1 MORAGA - OAKLAND STATION X 115kV #3 LINE
157. N-1 MORAGA - OAKLAND STATION X 115kV #4 LINE
158. N-1 MORAGA - SAN LEANDRO 115kV #1 LINE
159. N-1 MORAGA - SAN LEANDRO 115kV #2 LINE
160. N-1 MORAGA - SAN LEANDRO 115kV #3 LINE
161. N-1 MORAGA - SANRAMON 230kV LINE
162. N-1 MORGAN HILL - LLAGAS 115kV LINE
163. N-1 MOSSLAND-LOSBANOS 500kV LINE
164. N-1 MOUTAIN VIEW - MONTA VISTA 115kV LINE
165. N-1 MOUTAIN VIEW - WHISMAN 115kV LINE
166. N-1 NDUBLIN-VINYARD 230kV LINE
167. N-1 NEWARK - AMD - APPLIED MATERIALS 115kV LINE (Xfr. Lockheed)
168. N-1 NEWARK - AMES #1 115kV LINE
169. N-1 NEWARK - AMES #2 115kV LINE
170. N-1 NEWARK - AMES #3 115kV LINE
171. N-1 NEWARK - AMES 115kV LINE
172. N-1 NEWARK - DIXON LANDING 115kV LINE
173. N-1 NEWARK - FREMONT 115kV #1 LINE
174. N-1 NEWARK - FREMONT 115kV #2 LINE
175. N-1 NEWARK - JARVIS 115kV LINE
176. N-1 NEWARK - JARVIS 115kV LINE
177. N-1 NEWARK - LAWRENCE - MOFFET - LOCKHEED 115kV LINE (Xfr. Lockheed)
178. N-1 NEWARK - LIVERMORE 60kV LINE
179. N-1 NEWARK - MILPITAS 115kV #1 LINE
180. N-1 NEWARK - MILPITAS 115kV #1 LINE
181. N-1 NEWARK - MILPITAS 115kV #2 LINE
182. N-1 NEWARK - NEWARK DIST 230kV LINE
183. N-1 NEWARK - NORTHERN #1 115kV LINE
184. N-1 NEWARK - NORTHERN #2 115kV LINE
185. N-1 NEWARK - RAVENSWOOD 230kV LINE
186. N-1 NEWARK - VALLECITOS 60kV LINE

187. N-1 NEWARK - ZANKER - KIFER 115kV LINE
188. N-1 NEWARK - ZANKER - TRIMBLE 115kV LINE (Xfr. Agnews)
189. N-1 NEWARK-MOCCASIN-OAKDALE TID 115kV #1 LINE
190. N-1 NEWARK-MOCCASIN-OAKDALE TID 115kV #2 LINE
191. N-1 NORTECH - CP LECEF 115kV LINE
192. N-1 NORTECH - NORTHERN 115kV LINE
193. N-1 NWK DIST - LOS ESTEROS 230kV LINE
194. N-1 OAKLAND ST C - CITY OF ALAMEDA 115kV LINE & CLOSE CARTWRIGHT-JENNY 115kV LINE
195. N-1 OAKLAND ST J - JENNY 115kV LINE & CLOSE CARTWRIGHT-JENNY 115kV LINE
196. N-1 OAKLAND STATION C - MARITIME 115kV LINE
197. N-1 OAKLAND STATION C - OAKLAND STATION L 115kV LINE
198. N-1 OAKLAND STATION C - OAKLAND STATION X 115kV LINE
199. N-1 OAKLAND STATION C - OAKLAND UNITS 2 & 3 115kV LINE
200. N-1 OAKLAND STATION D - OAKLAND STATION L 115kV LINE
201. N-1 OLEUM - EL CERRITO STATION G 115kV #1 LINE & VALLEY VIEW LOAD
202. N-1 OLEUM - EL CERRITO STATION G 115kV #2 LINE
203. N-1 OLEUM - MARTINEZ 115kV & SHIFT ALHAMBRA LOAD TO MARTINEZ-SOBRENTE 115kV LINE
204. N-1 OLEUM - NORTH TOWER - CHRISTIE 115kV LINE & NORTH TOWER LOAD
205. N-1 PARKWAY-MORAGA 230kV LINE
206. N-1 PEABODY-BIRDS LANDING 230kV LINE
207. N-1 PIERCY - MCKEE 115kV LINE
208. N-1 PITTSBURG - CLAYTON 115kV #1 LINE
209. N-1 PITTSBURG - CLAYTON 115kV #3 LINE & KIRKER LD RADIAL FROM PITTS-KIRKER-POSCO 115kV LINE
210. N-1 PITTSBURG - CLAYTON 115kV #4 LINE
211. N-1 PITTSBURG - COLUMBIA STEEL 115kV LINE & GWF 2 LD/GN & PRAXAIR LD & DOW CHEM GN
212. N-1 PITTSBURG - DEC PITTSBURG #1 230kV LINE
213. N-1 PITTSBURG - DEC PITTSBURG #2 230kV LINE
214. N-1 PITTSBURG - EAST SHORE 230kV LINE
215. N-1 PITTSBURG - KIRKER-POSCO 115kV LINE & SHIFT KIRK LD TO PITT-CLAY 115kV LINE 3
216. N-1 PITTSBURG - LMEC 115kV #1 LINE
217. N-1 PITTSBURG - LMEC 115kV #2 LINE
218. N-1 PITTSBURG - MARTINEZ 115kV #1 LINE & WILLOW PASS BART LOAD & BOLLMAN LOAD
219. N-1 PITTSBURG - MARTINEZ 115kV #2 LINE & CCCSD LOAD & CCCSD GEN
220. N-1 PITTSBURG - POTRERO D.C. LINE
221. N-1 PITTSBURG - SAN MATEO 230kV LINE
222. N-1 PITTSBURG - SAN RAMON 230kV LINE
223. N-1 PITTSBURG - TASSAJAR 230kV LINE
224. N-1 PITTSBURG - TESLA C 230kV #1 LINE
225. N-1 PITTSBURG - TESLA C 230kV #2 LINE
226. N-1 PITTSBURG - TESORO 230kV LINE
227. N-1 PITTSBURG - TIDEWATR 230kV LINE
228. N-1 POTRERO - BAY SHORE-MARTIN A-H-W#1 115kV CABLES
229. N-1 POTRERO - BAY SHORE-MARTIN A-H-W#2 115kV CABLES

230. N-1 POTRERO - LARKIN AY-1 115kV CABLE
231. N-1 POTRERO - LARKIN AY-2 115kV CABLE
232. N-1 POTRERO - MISSION AX 115kV CABLE
233. N-1 POTRERO STATIC VAR COMPENSATOR
234. N-1 RADUM - LIVERMORE 60kV LINE
235. N-1 RADUM - VALLECITOS 60kV LINE
236. N-1 RADUM - VALLECITOS 60kV LINE
237. N-1 RAVENSWOOD - AMES #1 115kV LINE
238. N-1 RAVENSWOOD - AMES #2 115kV LINE
239. N-1 RAVENSWOOD - BAIR #1 115kV LINE
240. N-1 RAVENSWOOD - BAIR #2 115kV LINE
241. N-1 RAVENSWOOD - COOLEY LANDING #1 115kV LINE
242. N-1 RAVENSWOOD - COOLEY LANDING #2 115kV LINE
243. N-1 RAVENSWOOD - PALO ALTO #1 115kV LINE
244. N-1 RAVENSWOOD - PALO ALTO #2 115kV LINE
245. N-1 RAVENSWOOD - SAN MATEO #1 115kV LINE
246. N-1 RICHMOND R - SOBRANTE 115kV #1 LINE
247. N-1 RICHMOND R - SOBRANTE 115kV #2 LINE
248. N-1 SAN FRANCISCO AIRPORT - UNITED COGEN 115kV LINE
249. N-1 SAN JOSE A - EL PATIO 115kV LINE
250. N-1 SAN JOSE A - SAN JOSE B 115kV LINE
251. N-1 SAN LEANDRO - OAKLAND J 115kV LINE & G-P GYPSUM (DOMTAR #2) LOAD & TRANSFER EDES LOAD TO OAKLAND J-GRANT LINE 115kV LINE
252. N-1 SAN MATEO - BAIR (SAN CARLOS SECTION -BAIR SECTION) 60kV LINE
253. N-1 SAN MATEO - BAIR (SAN MATEO - SAN CARLOS SECTION) 60kV LINE
254. N-1 SAN MATEO - BAY MEADOWS #1 115kV LINE
255. N-1 SAN MATEO - BAY MEADOWS #2 115kV LINE
256. N-1 SAN MATEO - BELMONT 115kV LINE
257. N-1 SAN MATEO - BERESFORD 60kV LINE
258. N-1 SAN MATEO - BURLINGAME #4 115kV LINE
259. N-1 SAN MATEO - MARTIN #3 115kV LINE
260. N-1 SAN MATEO - MARTIN #6 115kV LINE
261. N-1 SAN MATEO - MARTIN 230kV CABLE
262. N-1 SAN MATEO - MILLBREA #1 115kV LINE
263. N-1 SAN MATEO - RAVENSWOOD #1 230kV LINE
264. N-1 SAN MATEO - RAVENSWOOD #2 230kV LINE
265. N-1 SAN MATEO - SAN FRANCISCO AIRPORT #5 115kV LINE
266. N-1 SFMA - EAST GRAND 115kV LINE
267. N-1 SOBRANTE - GRIZZLY - CLAREMONT 115kV #1 LINE
268. N-1 SOBRANTE - GRIZZLY - CLAREMONT 115kV #2 LINE
269. N-1 SOBRANTE - MORAGA 115kV LINE
270. N-1 SOBRANTE - STANDARD OIL SWITCHING STATION 115kV #1 LINE & MSC (POINT PINOLE STEEL) LOAD
271. N-1 SOBRANTE - STANDARD OIL SWITCHING STATION 115kV #1 LINE & TRANSFR SAN PABLO LOAD TO MSC (PT PINOLE STL)

- 272. N-1 SVP - LOS ESTEROS 230kV LINE
- 273. N-1 TABLE MT-TESLA 500kV LINE
- 274. N-1 TABLE MT-VACA-DIX 500kV LINE
- 275. N-1 TASSAJAR - NEWARK E 230kV LINE
- 276. N-1 TESLA - NEWARK 230kV #1 LINE
- 277. N-1 TESLA - NEWARK 230kV #2 LINE
- 278. N-1 TESLA - RAVENSWOOD 230kV LINE
- 279. N-1 TESLA D - TRCY PMP 230kV #1 LINE
- 280. N-1 TESLA D - TRCY PMP 230kV #2 LINE
- 281. N-1 TESLA-LOSBANOS 500kV LINE
- 282. N-1 TESLA-METCALF 500kV LINE
- 283. N-1 TIDEWATR - SOBRANTE 230kV LINE
- 284. N-1 TRACY - LIVERMORE LABS 230kV LINE
- 285. N-1 TRACY - WESTLEY #1 230kV LINE
- 286. N-1 TRACY - WESTLEY #2 230kV LINE
- 287. N-1 TRACY-LOSBANOS 500kV LINE
- 288. N-1 TRACY-TESLA 500kV LINE
- 289. N-1 TRIMBLE - MONTAGUE 115kV LINE
- 290. N-1 TRIMBLE - SAN JOSE B 115kV LINE
- 291. N-1 TSARATOGA - VASONA 230kV LINE
- 292. N-1 TULUCAY-VACA-DIX 230kV LINE
- 293. N-1 VACA-DIX-LAMBIE 230kV LINE
- 294. N-1 VACA-DIX-PARKWAY 230kV LINE
- 295. N-1 VACA-DIX-PEABODY 230kV LINE
- 296. N-1 VACA-DIX-TESLA 500kV LINE
- 297. N-1 VASCO - HERDLYN 60kV LINE
- 298. N-1 VASONA - METCALF 230kV LINE
- 299. N-1 VINYARD - NEWARK 230kV LINE
- 300. N-1 WILLOW PASS - CONTRA COSTA SUB 60kV BUS
- 301. N-1 WOLF - STELLING 115kV LINE
- 302. N-1 WOODSIDE - LAS PULGAS 60kV LINE

3. [T-1] Contingencies (ISO Category "B")

As part of this study, 65 single transformer contingencies were evaluated. The single transformer contingencies were:

- 1. T-1 BAIR 115/60kV #1 XFMR BANK
- 2. T-1 CHRISTIE 115/60kV #1 XFMR BANK
- 3. T-1 CONTRA COSTA SUB 115/60kV #1 XFMR BANK
- 4. T-1 CONTRA COSTA SUB 115/60kV #2 XFMR BANK
- 5. T-1 CONTRA COSTA SUB 230/115kV #3 XFMR BANK
- 6. T-1 CONTRA COSTA SUB 230/115kV #3 XFMR BANK
- 7. T-1 COOLEY LANDING 115/60kV #1 XFMR BANK

8. T-1 COOLEY LANDING 115/60kV #3 XFMR BANK
9. T-1 CSC NORTHERN 115/60kV #1 XFMR BANK
10. T-1 CSC NORTHERN 115/60kV #NA XFMR BANK
11. T-1 CSC NORTHERN 230/115kV #1 XFMR BANK
12. T-1 EAST SHORE 230/115kV #1 XFMR BANK
13. T-1 EAST SHORE 230/115kV #2 XFMR BANK
14. T-1 EVERGREEN 115/60kV #1 XFMR BANK
15. T-1 HERDLYN 70/60kV #2 XFMR BANK
16. T-1 JEFFERSON 230/60kV #1 XFMR BANK
17. T-1 JEFFERSON 230/60kV #1 XFMR BANK
18. T-1 LOS ESTEROS 230/115kV #1 XFMR BANK
19. T-1 LOS ESTEROS 230/115kV #2 XFMR BANK
20. T-1 LOS ESTEROS 230/115kV #3 XFMR BANK
21. T-1 LOS ESTEROS 230/115kV #4 XFMR BANK
22. T-1 LOS POSITAS 230/60kV #4 XFMR BANK
23. T-1 MARTIN 115/60kV #6 XFMR BANK
24. T-1 MARTIN 230/115kV #7 XFMR BANK
25. T-1 MARTIN 230/115kV #8 XFMR BANK
26. T-1 METCALF 230/115kV #1 XFMR BANK
27. T-1 METCALF 230/115kV #2 XFMR BANK
28. T-1 METCALF 230/115kV #3 XFMR BANK
29. T-1 METCALF 230/115kV #4 XFMR BANK
30. T-1 METCALF 500/230kV #11 XFMR BANK
31. T-1 METCALF 500/230kV #12 XFMR BANK
32. T-1 METCALF 500/230kV #13 XFMR BANK
33. T-1 MILLBRAE 115/60kV #5 XFMR BANK
34. T-1 MONTA VISTA 230/115kV #2 XFMR BANK
35. T-1 MONTA VISTA 230/115kV #3 XFMR BANK
36. T-1 MONTA VISTA 230/115kV #4 & #4A XFMR BANK
37. T-1 MONTA VISTA 230/60kV #5 XFMR BANK
38. T-1 MORAGA 230/115kV #1 XFMR BANK
39. T-1 MORAGA 230/115kV #2 XFMR BANK
40. T-1 MORAGA 230/115kV #3 XFMR BANK
41. T-1 NEWARK 115/60kV #2 XFMR BANK
42. T-1 NEWARK 230/115kV #11 XFMR BANK
43. T-1 NEWARK 230/115kV #7 XFMR BANK
44. T-1 NEWARK 230/115kV #9 XFMR BANK
45. T-1 PITTSBURG 230/115kV #12 XFMR BANK
46. T-1 PITTSBURG 230/115kV #13 XFMR BANK
47. T-1 RAVENSWOOD 230/115kV #1 XFMR BANK
48. T-1 RAVENSWOOD 230/115kV #2 XFMR BANK

- 49. T-1 SAN MATEO 115/60kV #3 XFMR BANK
- 50. T-1 SAN MATEO 115/60kV #8 XFMR BANK
- 51. T-1 SAN MATEO 230/115kV #5 XFMR BANK
- 52. T-1 SAN MATEO 230/115kV #6 XFMR BANK
- 53. T-1 SAN MATEO 230/115kV #7 XFMR BANK
- 54. T-1 SAN RAMON 230/60kV #1 XFMR BANK
- 55. T-1 SOBRANTE 230/115kV #1 XFMR BANK
- 56. T-1 SOBRANTE 230/115kV #2 XFMR BANK
- 57. T-1 TESLA 230/115kV #1 XFMR BANK
- 58. T-1 TESLA 230/115kV #3 XFMR BANK
- 59. T-1 TESLA 500/230kV #2 XFMR BANK
- 60. T-1 TESLA 500/230kV #4 XFMR BANK
- 61. T-1 TESLA 500/230kV #6 XFMR BANK
- 62. T-1 TRACY 500/230kV #1 XFMR BANK
- 63. T-1 TRACY 500/230kV #1 XFMR BANK
- 64. T-1 VACA DIXION 500/230kV #11 XFMR BANK
- 65. T-1 VACA DIXION 500/230kV #12 XFMR BANK

4. [N-2] Contingencies (ISO Category "C")

As part of this study, 88 DCTL [L-2] contingencies were run. These contingencies are:

- 1. N-2 BIRDS LANDING - PEABODY&BIRDS LANDING - LAMBIE 230kV LINES
- 2. N-2 C.COSTA - MORAGA 230kV #1 & #2 LINES
- 3. N-2 CASTROVL - NEWARK&TASSAJAR - NEWARK 230kV LINES
- 4. N-2 CAYETANO - NDUBLIN & CONTRA COSTA - CAYETANO 230kV LINES
- 5. N-2 COCO - BIRDS LANDING - CONTRA COSTA SUB - BIRDS LANDING 230kV LINES
- 6. N-2 CONTRA COSTA - LOS PSTAS & CONTRA COSTA - CAYETANO 230kV LINES
- 7. N-2 CONTRA COSTA SUB - COCO&BIRDS LANDING - CONTRA COSTA SUB 230kV LINES
- 8. N-2 DIXON LANDING - MAYBURY - MCKEE & MILPITAS - SWIFT 115kV LINES
- 9. N-2 DIXON LANDING - MAYBURY - MCKEE&NEWARK - MILPITAS 115kV LINES
- 10. N-2 EASTSHORE - MT EDEN #1 & #2 115kV LINES
- 11. N-2 EI CERETO - SOBRANTE 115kV #1 & #2 LINES
- 12. N-2 FULTON - IGNACIO & LAKEVILE - IGNACIO 230kV LINES
- 13. N-2 HICKS - METCALF & SARATOGA - VASONA 230kV LINES
- 14. N-2 HICKS - MOTAVISTA & VASONA - SARATOGA 230kV LINES
- 15. N-2 IGNACIO - FULTON & FULTON - GEYSERS 230kV LINES
- 16. N-2 LAKEVILE - IGNACIO & LAKEVILE - GYSRS 230kV LINES
- 17. N-2 LAKEVILE - IGNACIO & LAKEVILE - SOBRANTE 230kV LINES
- 18. N-2 LAKEVILE - TULUCAY & VACA - LAKVILE 230kV LINES
- 19. N-2 LAKEVILLE - SOBRANTE & IGNACIO - SOBRANTE 230kV LINES
- 20. N-2 LOS ESTEROS - METCALF & TESLA - NEWARK 230kV #2 LINES
- 21. N-2 LOS ESTEROS - TRIMBLE & LOS ESTEROS - MONTAGUE 115kV LINES
- 22. N-2 LS PSTAS - NEWARK&VINEYARD - NEWARK 230kV LINES

23. N-2 MARTINEZ - SOBRANTE 115kV LINE & OLEUM - MARTINEZ 115kV LINES & ALHAMBRA LOAD
24. N-2 MARTNZ - SOBRANTE&CHRISIE - SOBRANTE 115kV LINES
25. N-2 METCALF - EDENVALE - IBM COTTLE/HARRY RD&METCALF - IBM BAILEY-EDENVALE 115kV LINES
26. N-2 METCALF - EL PATIO(-IBM HR) #1 & #2 LINES
27. N-2 METCALF - EVERGREEN - STONE - GE #2&METCALF-EVERGREEN #1 115kV LINES
28. N-2 METCALF - HICKS & METCALF - VASONA 230kV LINES
29. N-2 METCALF - MOSSLND #1 & #2 230kV LINES
30. N-2 METCALF E - SWIFT&METCALF E - PIERCY 115kV LINES
31. N-2 METCALF E - SWIFT&PIERCY - MCKEE 115kV LINES
32. N-2 MILLBREA - SANMATEO&E.GR& - SAN MATEO 115kV LINES
33. N-2 MILPITAS - SWIFT & PIERCY - MCKEE 115kV LINES
34. N-2 MONTA VISTA - PHILLIPS - LAWRENCE&MONTA VISTA - BRITTON 115kV LINES
35. N-2 MONTA VISTA - PHILLIPS - LAWRENCE&NEWARK - AMD - APPLIED MATERIALS 115kV LINES
36. N-2 MONTAVIS - METCALF & MONTAVIS - MEC 230kV #3 & #4 LINES
37. N-2 MONTAVISTA - JEFFERSON 230kV #1 & #2 LINES
38. N-2 MONTAVISTA - SARATOGA & MONTAVISTA - HICKS 230kV LINES
39. N-2 MORAGA - CLAIRMONT 115kV #1 & #2 LINES
40. N-2 MORAGA - J&SN LNDRO - J 115kV LINES
41. N-2 MORAGA - OAKLAND J & MORAGA - SAN LEANDRO 115kV #3 LINES
42. N-2 MORAGA - SAN LEANDRO #1 & #2 115kV LINES
43. N-2 MORAGA - SANRAMON & CASTROVALLY - NEWARK 230kV LINES
44. N-2 MORAGA - SANRAMON & MORAGA - CASTROVALLY 230kV LINES
45. N-2 MORAGA - SANRAMON&TASSAJAR - NEWARK 230kV LINES
46. N-2 MORAGA - STATION X #1 & #2 115kV LINES
47. N-2 MORAGA - STATION X #3 & #4 115kV LINES
48. N-2 NEWARK - LAWRENCE - MOFFET - LOCKHEED&NEWARK - AMD - APPLIED MATERIALS 115kV LINES
49. N-2 NEWARK - LOS ESTEROS & LOS ESTEROS - METCALF 230kV LINES
50. N-2 NEWARK - MILPITAS&NEWARK - DIXON LANDING 115kV LINES
51. N-2 NEWARK - NORTHERN #1 & #2 115kV LINES
52. N-2 NEWARK - ZANKER - TRIMBLE&KIFER - FMC - SAN JOSE B 115kV LINES
53. N-2 NEWARK - ZANKER - TRIMBLE&NEWARK - ZANKER - KIFER 115kV LINES
54. N-2 NORTH DUBLIN - VINYARD & CONTRA COSTA - LOS PASITAS 230kV LINES
55. N-2 NORTH DUBLIN - VINYARD & LOS PASITAS - NEWARK 230kV LINES
56. N-2 NORTHERN - SCOTT #1 & #2 115kV LINES
57. N-2 OLEUM - EL CERRITO STATION G 115kV LINES 1 & 2 & VALLEY VIEW LOAD
58. N-2 OLEUM - MARTINEZ&LINEOLEUM - N.TOWER-CHRISTE 115kV LINES
59. N-2 OLEUM - NTR - CHRITIE&MARTNZ - ALHABRA - SOBRANTE 115kV LINES
60. N-2 PARKWAY - MORAGA & BAHIA - MORAGA 230kV LINES
61. N-2 PITTSBURG - SANRAMON&TASSAJAR - NEWARK 230kV LINES
62. N-2 PITTS - MARTZ 115kV #1 & #2 LINES, WP BART, BOLLMAN, CCCSD LD & CCCSD
63. N-2 PITTSBURG - CLAYTON 115kV #1 & #3 LINE & KIRKER LD RADIAL FROM PITTS-KIRKER-POSCO
64. N-2 PITTSBURG - SAN MATEO & EAST SHORE - SAN MATEO 230kV LINES
65. N-2 PITTSBURG - SANMATEO & PITTSBURG - EAST SHORE 230kV LINES

66. N-2 PITTSBURG - TASSAJARA & PITTSBURG - SAN RAMON 230kV LINES
67. N-2 PITTSBURG - TESLA #1 & #2 230kV LINES
68. N-2 PITTSBURG - TESORO & PITTSBURG - TIDEWATER 230kV LINES
69. N-2 PTT - CLMBIA STL LN,PTTS - KKR - PSCO LN,GWF 2,PRXR, DOW CHM, SHFT KKR TO PTT-CLY LN 3
70. N-2 RAVENSWOOD - BAIR #1 & #2 115kV LINES
71. N-2 RAVENSWOOD - PALO ALTO #1 & #2 115kV LINES
72. N-2 RAVENSWOOD - SAN MATEO #1 & #2 230kV LINES
73. N-2 RICHMOND R - SOBRANTE 115kV #1 & #2 LINES
74. N-2 SAN MATEO - BAY MEADOWS #1 & #2 115kV LINES
75. N-2 SAN MATEO - RAVENSWOOD&SAN MATEO - BELMONT 115kV LINES
76. N-2 SANMATEO - SFIA&SANMATEO - MARTIN 115kV LINES
77. N-2 SANMATEO - MARTIN&SANMATEO - BURLNGME 115kV LINES
78. N-2 SOBRANTE - GRIZLY - CLAIRMONT 115kV #1 & #2 LINES
79. N-2 SOBRANTE - STANDARD OIL 115kV #1 & #2 LINES
80. N-2 TESLA - KELSO&TESLA - DELTAPUMP 230kV LINES
81. N-2 TESLA - NEWARK #2 & NWK DIST - LOS ESTEROS 230kV LINES
82. N-2 TESLA - NEWARK & TESLA - RAVENSWOOD 230kV LINES
83. N-2 TESLA - TRACY #1 & #2 230kV LINES
84. N-2 TESORO - SOBRANTE & TIDEWATER - SOBRANTE 230kV LINES
85. N-2 TRIBLE - SAN JOSE B&KIFER - FMC-SAN JOSE B 115kV LINES
86. N-2 VACA - PEABODY & VACA - LAMBIE 230kV LINES
87. N-2 VACA - TULUCAY & VACA - LAKEVILE 230kV LINES
88. N-2 VASONA - METCALF & MOTAVISTA - HICKS 230kV LINES

APPENDIX 5 – Detailed Results of 2013 Summer Peak Power Flow Studies

Below are the results for the 2013 Summer Peak case studies.

Thermal Summary Results -All Lines in Service

Overloads shown in orange text is identified as pre-existing criteria violation

OUTAGE DESCRIPTION	OVERLOADED ELEMENT	PRE N PCT	POST N PCT	N DELTA	N RATE	UNIT	ELEMENT TYPE
N-0 BASE CASE	E. SHORE-SANMATEO 230kV Line	117.7	125.6	7.9	989	Amps	Line

Thermal Summary Results -Sorted by Transmission Element Overload

Overloads shown in orange text is identified as pre-existing criteria violation

Overloads shown in grey text are triggered by multiple element contingencies. Mitigation typically can involve RAS or SPS.

OUTAGE NO	OUTAGE DESCRIPTION	OVERLOADED ELEMENT	PRE E PCT	POST E PCT	E DELTA	E RATE	UNIT	ELEMENT TYPE
484	N-2 PITTSBURG - TESORO & PITTSBURG - TIDEWATER 230kV LINES	ALHAMTP2 115.00-MARTNZ D 115.00 #1 1	83.8	101.8	18.0	487	Amps	Line
514	N-2 EI CERETO - SOBRANTE 115kV #1 & #2 LINES	ALHAMTP2 115.00-MARTNZ D 115.00 #1 1	106.4	111.8	5.3	487	Amps	Line
514	N-2 EI CERETO - SOBRANTE 115kV #1 & #2 LINES	ALHAMTP2 115.00-OLEUM 115.00 #1 1	99.4	104.3	4.9	522	Amps	Line
514	N-2 EI CERETO - SOBRANTE 115kV #1 & #2 LINES	CHRISTIE 115.00-SOBRANTE 115.00 #1 1	98.4	93.8	-4.6	523	Amps	Line
527	N-2 PITTSBURG - CLAYTON 115kV #1 & #3 LINE & KIRKER LD RADIAL FROM PITTS-KIRKER	CLAYTN 115.00-PITTSBURG 115.00 #4 1	133.9	139.2	5.3	1486	Amps	Line
624	G-1 CARDINAL #1	CLY LNDG 60.00-S.R.I. 60.00 #1 1	103.8	105.5	1.7	599	Amps	Line
105	N-1 TRACY-LOSBANOS 500kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	113.6	114.7	1.1	1541	Amps	Line
107	N-1 TESLA-METCALF 500kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	119.1	120.3	1.1	1541	Amps	Line
108	N-1 TESLA-LOSBANOS 500kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	113.6	114.7	1.1	1541	Amps	Line
109	N-1 METCALF-MOSSLAND 500kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	113.5	80.0	-33.5	1541	Amps	Line
110	N-1 MOSSLAND-LOSBANOS 500kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	113.5	80.0	-33.5	1541	Amps	Line
145	N-1 PITTSBURG - EAST SHORE 230kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	113.5	114.6	1.1	1541	Amps	Line
148	N-1 PITTSBURG - SAN MATEO 230kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	113.5	114.6	1.1	1541	Amps	Line
300	N-1 EAST SHORE - DUMBARTON 115kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	113.8	114.8	1.0	1541	Amps	Line
304	N-1 NEWARK - NORTHERN #1 115kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	113.8	114.8	1.0	1541	Amps	Line
305	N-1 NEWARK - NORTHERN #2 115kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	114.4	115.5	1.0	1541	Amps	Line
318	N-1 NEWARK - ZANKER - TRIMBLE 115kV LINE (Xfr. Agnews)	CP LECEF 115.00-LECEFTAP 115.00 #1 1	115.3	116.5	1.1	1541	Amps	Line
328	N-1 MONTA VISTA - PHILLIPS - LAWRENCE 115kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	113.4	80.0	-33.4	1541	Amps	Line
337	N-1 KIFER - FMC 115kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	114.1	115.2	1.1	1541	Amps	Line
362	N-1 CSC NORTHERN - SCOTT #1 115kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	119.3	120.4	1.1	1541	Amps	Line
438	T-1 NEWARK 230/115kV #7 XFMR BANK	CP LECEF 115.00-LECEFTAP 115.00 #1 1	118.0	119.1	1.1	1541	Amps	Line
439	T-1 NEWARK 230/115kV #11 XFMR BANK	CP LECEF 115.00-LECEFTAP 115.00 #1 1	119.8	121.0	1.2	1541	Amps	Line
447	T-1 LOS ESTEROS 230/115kV #3 XFMR BANK	CP LECEF 115.00-LECEFTAP 115.00 #1 1	125.9	127.1	1.2	1541	Amps	Line
448	T-1 LOS ESTEROS 230/115kV #4 XFMR BANK	CP LECEF 115.00-LECEFTAP 115.00 #1 1	125.9	127.1	1.2	1541	Amps	Line
486	N-2 PITTSBURG - SANMATEO & PITTSBURG - EAST SHORE 230kV LINES	CP LECEF 115.00-LECEFTAP 115.00 #1 1	114.2	115.5	1.2	1541	Amps	Line
505	N-2 TESLA - KELSO&TESLA - DELTAPUMP 230kV LINES	CP LECEF 115.00-LECEFTAP 115.00 #1 1	80.0	114.4	34.4	1541	Amps	Line
512	N-2 HICKS - MOTAVISTA & VASONA - SARATOGA 230kV LINES	CP LECEF 115.00-LECEFTAP 115.00 #1 1	113.4	80.0	-33.4	1541	Amps	Line
536	N-2 NEWARK - NORTHERN #1 & #2 115kV LINES	CP LECEF 115.00-LECEFTAP 115.00 #1 1	115.8	116.9	1.1	1541	Amps	Line
542	N-2 NORTHERN - SCOTT #1 & #2 115kV LINES	CP LECEF 115.00-LECEFTAP 115.00 #1 1	115.4	116.5	1.1	1541	Amps	Line
159	N-1 EAST SHORE - SAN MATEO 230kV LINE	DUMBARTN 115.00-EASTSHRE 115.00 #1 1	186.3	201.6	15.3	949	Amps	Line
492	N-2 PITTSBURG - SAN MATEO & EAST SHORE - SAN MATEO 230kV LINES	DUMBARTN 115.00-EASTSHRE 115.00 #1 1	198.9	216.2	17.3	949	Amps	Line
159	N-1 EAST SHORE - SAN MATEO 230kV LINE	DUMBARTN 115.00-NEWARK D 115.00 #1 1	90.6	99.8	9.3	1541	Amps	Line
492	N-2 PITTSBURG - SAN MATEO & EAST SHORE - SAN MATEO 230kV LINES	DUMBARTN 115.00-NEWARK D 115.00 #1 1	98.1	108.6	10.5	1541	Amps	Line
434	T-1 EAST SHORE 230/115kV #1 XFMR BANK	E. SHORE 230.00-EASTSHRE 115.00 #2 0	129.7	135.2	5.4	161	MVA	XFMR
102	N-1 TABLE MT-TESLA 500kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.6	111.6	7.0	1120	Amps	Line
104	N-1 MAXWELL-TRACY 500kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.9	111.9	7.1	1120	Amps	Line
105	N-1 TRACY-LOSBANOS 500kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.4	111.4	7.1	1120	Amps	Line
107	N-1 TESLA-METCALF 500kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	108.6	115.8	7.1	1120	Amps	Line
108	N-1 TESLA-LOSBANOS 500kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.4	111.5	7.1	1120	Amps	Line
119	N-1 LAKEVILE-SOBRANTE 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	80.0	111.2	31.2	1120	Amps	Line
134	N-1 C.COSTA - BRENTWOOD 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.4	111.4	7.0	1120	Amps	Line
135	N-1 C.COSTA - DELTAPMP 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.3	111.3	7.0	1120	Amps	Line
136	N-1 C.COSTA - LS PSTAS 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.2	112.2	7.0	1120	Amps	Line
137	N-1 LONETREE-C.COSTA 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.5	112.5	7.0	1120	Amps	Line
138	N-1 CAYETANO-LONETREE 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.1	112.1	7.0	1120	Amps	Line
141	N-1 PITTSBURG - SAN RAMON 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	106.5	114.0	7.5	1120	Amps	Line
142	N-1 PITTSBURG - TASSAJAR 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	109.5	117.5	8.0	1120	Amps	Line
143	N-1 PITTSBURG - TIDEWATR 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.1	112.3	7.3	1120	Amps	Line

Thermal Summary Results -Sorted by Transmission Element Overload

Overloads shown in orange text is identified as pre-existing criteria violation

Overloads shown in grey text are triggered by multiple element contingencies. Mitigation typically can involve RAS or SPS.

OUTAGE NO	OUTAGE DESCRIPTION	OVERLOADED ELEMENT	PRE E PCT	POST E PCT	E DELTA	E RATE	UNIT	ELEMENT TYPE
144	N-1 PITTSBURG - TESORO 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.8	112.0	7.2	1120	Amps	Line
146	N-1 PITTSBURG - TESLA C 230kV #1 LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.9	113.2	8.3	1120	Amps	Line
147	N-1 PITTSBURG - TESLA C 230kV #2 LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.9	113.2	8.3	1120	Amps	Line
148	N-1 PITTSBURG - SAN MATEO 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	116.8	126.1	9.3	1120	Amps	Line
149	N-1 TIDEWATR - SOBRANTE 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.6	111.8	7.3	1120	Amps	Line
150	N-1 MORAGA - CASTROVL 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.8	113.0	7.2	1120	Amps	Line
152	N-1 TASSAJAR - NEWARK E 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	107.1	115.1	8.0	1120	Amps	Line
154	N-1 PITTSBURG - POTRERO D.C. LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	120.5	127.5	7.0	1120	Amps	Line
157	N-1 JEFFERSON - MARTIN 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	106.0	112.4	6.4	1120	Amps	Line
160	N-1 NEWARK - RAVENSWOOD 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	116.4	122.9	6.4	1120	Amps	Line
161	N-1 TESLA - RAVENSWOOD 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	110.6	116.9	6.4	1120	Amps	Line
162	N-1 SAN MATEO - RAVENSWOOD #1 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.1	111.6	6.5	1120	Amps	Line
163	N-1 SAN MATEO - RAVENSWOOD #2 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.1	111.6	6.5	1120	Amps	Line
164	N-1 MONTA VISTA - JEFFERSON #1 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.3	80.0	-24.3	1120	Amps	Line
165	N-1 MONTA VISTA - JEFFERSON #2 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.9	111.8	6.9	1120	Amps	Line
167	N-1 DELTAPMP - TESLA D 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.3	111.3	7.0	1120	Amps	Line
169	N-1 CAYETANO-NDUBLIN 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.0	112.0	7.0	1120	Amps	Line
170	N-1 NDUBLIN-VINYARD 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.0	112.0	7.0	1120	Amps	Line
171	N-1 VINYARD - NEWARK 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.6	111.6	7.0	1120	Amps	Line
172	N-1 CASTROVL - NEWARK 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.2	112.3	7.2	1120	Amps	Line
175	N-1 LS PSTAS - NEWARK 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.0	112.0	7.0	1120	Amps	Line
176	N-1 TESLA - NEWARK 230kV #1 LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.5	111.4	6.9	1120	Amps	Line
179	N-1 TESLA - NEWARK 230kV #2 LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	107.2	114.2	7.0	1120	Amps	Line
180	N-1 MONTAVIS - SARATOGA 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.2	111.2	7.0	1120	Amps	Line
181	N-1 MONTAVIS - HICKS 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.5	111.4	7.0	1120	Amps	Line
182	N-1 TSARATOGA - VASONA 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.7	111.6	6.9	1120	Amps	Line
183	N-1 VASONA - METCALF 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.8	111.8	7.0	1120	Amps	Line
184	N-1 MONTAVIS - METCALF 230kV #3 LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.8	111.8	6.9	1120	Amps	Line
185	N-1 MONTAVIS - METCALF ENERGY CENTER 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.9	111.8	6.9	1120	Amps	Line
187	N-1 HICKS - METCALF 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.0	112.0	7.0	1120	Amps	Line
199	N-1 OLEUM - NORTH TOWER - CHRISTIE 115kV LINE & NORTH TOWER LOAD	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.2	111.2	7.0	1120	Amps	Line
236	N-1 PITTSBURG - MARTINEZ 115kV #1 LINE & WILLOW PASS BART LOAD & BOLLMAN LOAD	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.4	111.3	7.0	1120	Amps	Line
249	N-1 SOBRANTE - MORAGA 115kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	80.0	111.2	31.2	1120	Amps	Line
285	N-1 BELMONT - BAIR 115kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.2	111.2	7.0	1120	Amps	Line
295	N-1 SAN FRANCISCO AIRPORT - UNITED COGEN 115kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	106.1	113.0	7.0	1120	Amps	Line
300	N-1 EAST SHORE - DUMBARTON 115kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	126.4	135.8	9.4	1120	Amps	Line
301	N-1 DUMBARTON - NEWARK D 115kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	113.3	122.6	9.3	1120	Amps	Line
304	N-1 NEWARK - NORTHERN #1 115kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.9	112.0	7.1	1120	Amps	Line
314	N-1 NEWARK - LAWRENCE - MOFFET - LOCKHEED 115kV LINE (Xfr. Lockheed)	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.2	111.2	7.0	1120	Amps	Line
315	N-1 NEWARK - AMD - APPLIED MATERIALS 115kV LINE (Xfr. Lockheed)	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.2	111.2	7.0	1120	Amps	Line
354	N-1 GILROY - LLAGAS 115kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.4	111.3	7.0	1120	Amps	Line
361	N-1 CSC KIFER - DVR PP 115kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.3	111.3	7.0	1120	Amps	Line
362	N-1 CSC NORTHERN - SCOTT #1 115kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.6	111.6	7.0	1120	Amps	Line
379	N-1 HALF MOON BAY - HILLSDALE JCT 60kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.2	111.2	7.0	1120	Amps	Line
384	N-1 COOLEY LANDING - STANDFORD 60kV LINE (CLY LNDG-SRI)	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.4	111.3	7.0	1120	Amps	Line
389	N-1 COOLEY LANDING - STANDFORD 60kV LINE (SRI-MENLO)	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.4	111.4	7.0	1120	Amps	Line
406	T-1 TESLA 500/230kV #2 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.4	112.3	6.9	1120	Amps	Line
409	T-1 METCALF 500/230kV #11 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.5	111.5	7.0	1120	Amps	Line
410	T-1 METCALF 500/230kV #12 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.6	111.5	7.0	1120	Amps	Line
411	T-1 METCALF 500/230kV #13 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.6	111.5	7.0	1120	Amps	Line

Thermal Summary Results -Sorted by Transmission Element Overload

Overloads shown in orange text is identified as pre-existing criteria violation

Overloads shown in grey text are triggered by multiple element contingencies. Mitigation typically can involve RAS or SPS.

OUTAGE NO	OUTAGE DESCRIPTION	OVERLOADED ELEMENT	PRE E PCT	POST E PCT	E DELTA	E RATE	UNIT	ELEMENT TYPE
418	T-1 PITTSBURG 230/115kV #12 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.1	111.2	7.0	1120	Amps	Line
419	T-1 PITTSBURG 230/115kV #13 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.1	111.2	7.0	1120	Amps	Line
420	T-1 SOBRANTE 230/115kV #1 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.5	111.5	7.1	1120	Amps	Line
421	T-1 SOBRANTE 230/115kV #2 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.4	111.5	7.0	1120	Amps	Line
426	T-1 JEFFERSON 230/60kV #1 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.4	112.3	6.9	1120	Amps	Line
434	T-1 EAST SHORE 230/115kV #1 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	121.0	128.9	7.8	1120	Amps	Line
435	T-1 EAST SHORE 230/115kV #2 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	106.4	113.5	7.1	1120	Amps	Line
480	N-2 CONTRA COSTA SUB - COCO&BIRDS LANDING - CONTRA COSTA SUB 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.2	111.2	7.0	1120	Amps	Line
482	N-2 CONTRA COSTA - LOS PSTAS & CONTRA COSTA - CAYETANO 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	107.0	114.0	7.0	1120	Amps	Line
483	N-2 CAYETANO - NDUBLIN & CONTRA COSTA - CAYETANO 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.2	112.2	7.0	1120	Amps	Line
484	N-2 PITTSBURG - TESORO & PITTSBURG - TIDEWATER 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	108.3	116.5	8.2	1120	Amps	Line
485	N-2 TESORO - SOBRANTE & TIDEWATER - SOBRANTE 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	107.1	115.3	8.2	1120	Amps	Line
487	N-2 PITTSBURG - TESLA #1 & #2 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	106.7	117.6	10.8	1120	Amps	Line
488	N-2 PITTSBURG - TASSAJARA & PITTSBURG - SAN RAMON 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	112.9	121.7	8.7	1120	Amps	Line
490	N-2 MORAGA - SANRAMON & MORAGA - CASTROVALLY 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.1	112.6	7.5	1120	Amps	Line
491	N-2 MORAGA - SANRAMON & CASTROVALLY - NEWARK 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.5	112.0	7.5	1120	Amps	Line
493	N-2 TESLA - NEWARK & TESLA - RAVENSWOOD 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	113.2	119.3	6.1	1120	Amps	Line
494	N-2 RAVENSWOOD - SAN MATEO #1 & #2 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	110.5	114.7	4.2	1120	Amps	Line
495	N-2 MONTAVISTA - JEFFERSON 230kV #1 & #2 LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	109.1	115.4	6.2	1120	Amps	Line
496	N-2 NORTH DUBLIN - VINYARD & CONTRA COSTA - LOS PASITAS 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	106.7	113.7	7.0	1120	Amps	Line
497	N-2 NORTH DUBLIN - VINYARD & LOS PASITAS - NEWARK 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	106.4	113.4	7.0	1120	Amps	Line
498	N-2 TESLA - NEWARK #2 & NWK DIST - LOS ESTEROS 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	106.4	113.3	6.9	1120	Amps	Line
499	N-2 MONTAVISTA - SARATOGA & MONTAVISTA - HICKS 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.0	111.9	6.9	1120	Amps	Line
500	N-2 VASONA - METCALF & MOTAVISTA - HICKS 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.8	112.7	6.9	1120	Amps	Line
501	N-2 MONTAVIS - METCALF & MONTAVIS - MEC 230kV #3 & #4 LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	106.5	113.4	6.9	1120	Amps	Line
503	N-2 METCALF - HICKS & METCALF - VASONA 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	106.6	113.5	6.9	1120	Amps	Line
505	N-2 TESLA - KELSO&TESLA - DELTAPUMP 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.6	111.7	7.1	1120	Amps	Line
506	N-2 LOS ESTEROS - METCALF & TESLA - NEWARK 230kV #2 LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	107.1	114.1	7.0	1120	Amps	Line
507	N-2 PITTSBURG - SANRAMON&TASSAJAR - NEWARK 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	110.3	119.0	8.7	1120	Amps	Line
508	N-2 MORAGA - SANRAMON&TASSAJAR - NEWARK 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	106.6	115.1	8.6	1120	Amps	Line
509	N-2 CASTROVL - NEWARK&TASSAJAR - NEWARK 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	108.8	117.1	8.3	1120	Amps	Line
510	N-2 LS PSTAS - NEWARK&VINEYARD - NEWARK 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	106.0	113.0	7.0	1120	Amps	Line
511	N-2 HICKS - METCALF & SARATOGA - VASONA 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	106.3	113.2	6.9	1120	Amps	Line
512	N-2 HICKS - MOTAVISTA & VASONA - SARATOGA 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.6	112.5	6.9	1120	Amps	Line
515	N-2 RICHMOND R - SOBRANTE 115kV #1 & #2 LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.4	111.4	7.0	1120	Amps	Line
516	N-2 SOBRANTE - STANDARD OIL 115kV #1 & #2 LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.5	111.5	7.0	1120	Amps	Line
517	N-2 SOBRANTE - GRIZLY - CLAIRMONT 115kV #1 & #2 LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.3	111.3	7.0	1120	Amps	Line
518	N-2 OLEUM - MARTINEZ&LINEOLEUM - N.TOWER-CHRISTE 115kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.4	111.3	7.0	1120	Amps	Line
519	N-2 OLEUM - NTR - CHRITIE&MARTNZ - ALHABRA - SOBRANTE 115kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.3	111.3	7.0	1120	Amps	Line
520	N-2 MARTINEZ - SOBRANTE 115kV LINE & OLEUM - MARTINEZ 115kV LINES & ALHAMBRA LOA	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.5	111.5	7.1	1120	Amps	Line
521	N-2 OLEUM - EL CERRITO STATION G 115kV LINES 1 & 2 & VALLEY VIEW LOAD	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.2	111.2	7.0	1120	Amps	Line
526	N-2 PITTS - MARTZ 115kV #1 & #2 LINES, WP BART, BOLLMAN, CCCSD LD & CCCSD	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.7	111.7	7.0	1120	Amps	Line
527	N-2 PITTSBURG - CLAYTON 115kV #1 & #3 LINE & KIRKER LD RADIAL FROM PITTS-KIRKER	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.3	111.3	7.0	1120	Amps	Line
533	N-2 RAVENSWOOD - BAIR #1 & #2 115kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.9	111.9	7.0	1120	Amps	Line
535	N-2 EASTSHORE - MT EDEN #1 & #2 115kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	114.7	121.7	7.0	1120	Amps	Line
536	N-2 NEWARK - NORTHERN #1 & #2 115kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.9	112.0	7.1	1120	Amps	Line
537	N-2 NEWARK - LAWRENCE - MOFFET - LOCKHEED&NEWARK - AMD - APPLIED MATERIALS 115kV	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.5	111.5	7.0	1120	Amps	Line
542	N-2 NORTHERN - SCOTT #1 & #2 115kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.6	111.6	7.0	1120	Amps	Line
548	N-2 TRIBLE - SAN JOSE B&KIFER - FMC-SAN JOSE B 115kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.2	111.2	7.0	1120	Amps	Line
615	G-1 POTRERO #3	E. SHORE 230.00-SANMATEO 230.00 #1 1	109.9	116.8	7.0	1120	Amps	Line

Thermal Summary Results -Sorted by Transmission Element Overload

Overloads shown in orange text is identified as pre-existing criteria violation

Overloads shown in grey text are triggered by multiple element contingencies. Mitigation typically can involve RAS or SPS.

OUTAGE NO	OUTAGE DESCRIPTION	OVERLOADED ELEMENT	PRE E PCT	POST E PCT	E DELTA	E RATE	UNIT	ELEMENT TYPE
616	G-1 POTRERO #4 CT	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.4	112.3	7.0	1120	Amps	Line
617	G-1 POTRERO #5 CT	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.4	112.3	7.0	1120	Amps	Line
618	G-1 POTRERO #6 CT	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.4	112.3	7.0	1120	Amps	Line
622	G-1 UNITED COGEN SFQF	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.8	111.7	7.0	1120	Amps	Line
624	G-1 CARDINAL #1	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.5	111.5	7.0	1120	Amps	Line
642	G-1 MEC CTG1	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.3	111.3	7.0	1120	Amps	Line
643	G-1 MEC CTG2	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.3	111.3	7.0	1120	Amps	Line
644	G-1 MEC STG1	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.4	111.4	7.0	1120	Amps	Line
645	G-1 MEC PLANT	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.2	112.2	7.0	1120	Amps	Line
664	G-1 MOSS LANDING #7	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.5	111.5	7.0	1120	Amps	Line
495	N-2 MONTAVISTA - JEFFERSON 230kV #1 & #2 LINES	GLENWOOD 60.00-S.R.I. 60.00 #1 1	105.0	103.7	-1.3	523	Amps	Line
624	G-1 CARDINAL #1	GLENWOOD 60.00-S.R.I. 60.00 #1 1	121.1	123.0	1.9	523	Amps	Line
177	N-1 NEWARK - NEWARK DIST 230kV LINE	NEWARK E 230.00-NWRK_11M 13.20 #11 0	94.7	98.4	3.7	462	MVA	XFMR
438	T-1 NEWARK 230/115kV #7 XFMR BANK	NEWARK E 230.00-NWRK_11M 13.20 #11 0	101.1	103.5	2.4	462	MVA	XFMR
502	N-2 NEWARK - LOS ESTEROS & LOS ESTEROS - METCALF 230kV LINES	NEWARK E 230.00-NWRK_11M 13.20 #11 0	96.2	99.5	3.3	462	MVA	XFMR
438	T-1 NEWARK 230/115kV #7 XFMR BANK	NEWARK F 115.00-NWRK_11M 13.20 #11 0	96.5	98.8	2.3	462	MVA	XFMR
467	T-1 CSC NORTHERN 115/60kV #1 XFMR BANK	NRS 400 115.00-SRS 115.00 #1 1	107.9	109.3	1.4	1144	Amps	Line
468	T-1 CSC NORTHERN 115/60kV #NA XFMR BANK	NRS 400 115.00-SRS 115.00 #1 1	107.9	109.3	1.4	1144	Amps	Line
458	T-1 BAIR 115/60kV #1 XFMR BANK	ORACLE60 60.00-SAN MATO 60.00 #1 1	106.0	107.4	1.3	557	Amps	Line
461	T-1 SAN MATEO 115/60kV #8 XFMR BANK	SAN MATO 60.00-SMATEO3M 115.00 #3 0	102.6	106.4	3.8	68	MVA	XFMR
461	T-1 SAN MATEO 115/60kV #8 XFMR BANK	SANMATEO 115.00-SMATEO3M 115.00 #3 0	103.4	107.2	3.8	68	MVA	XFMR
107	N-1 TESLA-METCALF 500kV LINE	SJ B E 115.00-TRIMBLE 115.00 #1 1	100.5	107.1	6.5	924	Amps	Line
340	N-2 METCALF - EL PATIO(-IBM HR) #1 & #2 LINES	SJ B E 115.00-TRIMBLE 115.00 #1 1	119.9	123.3	3.3	924	Amps	Line
542	N-2 NORTHERN - SCOTT #1 & #2 115kV LINES	SJ B E 115.00-TRIMBLE 115.00 #1 1	95.6	101.5	5.8	924	Amps	Line
550	N-2 METCALF - EVERGREEN - STONE - GE #2&METCALF-EVERGREEN #1 115kV LINES	SJ B E 115.00-TRIMBLE 115.00 #1 1	99.6	103.2	3.6	924	Amps	Line

Thermal Summary Results -Sorted by Contingency

Overloads shown in orange text is identified as pre-existing criteria violation

Overloads shown in grey text are triggered by multiple element contingencies. Mitigation typically can involve RAS or SPS.

OUTAGE NO	OUTAGE DESCRIPTION	OVERLOADED ELEMENT	PRE E PCT	POST E PCT	E DELTA	E RATE	UNIT	ELEMENT TYPE
102	N-1 TABLE MT-TESLA 500kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.6	111.6	7.0	1120	Amps	Line
104	N-1 MAXWELL-TRACY 500kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.9	111.9	7.1	1120	Amps	Line
105	N-1 TRACY-LOSBANOS 500kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	113.6	114.7	1.1	1541	Amps	Line
105	N-1 TRACY-LOSBANOS 500kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.4	111.4	7.1	1120	Amps	Line
107	N-1 TESLA-METCALF 500kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	119.1	120.3	1.1	1541	Amps	Line
107	N-1 TESLA-METCALF 500kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	108.6	115.8	7.1	1120	Amps	Line
107	N-1 TESLA-METCALF 500kV LINE	SJ B E 115.00-TRIMBLE 115.00 #1 1	100.5	107.1	6.5	924	Amps	Line
108	N-1 TESLA-LOSBANOS 500kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	113.6	114.7	1.1	1541	Amps	Line
108	N-1 TESLA-LOSBANOS 500kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.4	111.5	7.1	1120	Amps	Line
109	N-1 METCALF-MOSSLAND 500kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	113.5	80.0	-33.5	1541	Amps	Line
110	N-1 MOSSLAND-LOSBANOS 500kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	113.5	80.0	-33.5	1541	Amps	Line
119	N-1 LAKEVILE-SOBRANTE 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	80.0	111.2	31.2	1120	Amps	Line
134	N-1 C.COSTA - BRENTWOOD 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.4	111.4	7.0	1120	Amps	Line
135	N-1 C.COSTA - DELTAPMP 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.3	111.3	7.0	1120	Amps	Line
136	N-1 C.COSTA - LS PSTAS 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.2	112.2	7.0	1120	Amps	Line
137	N-1 LONETREE-C.COSTA 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.5	112.5	7.0	1120	Amps	Line
138	N-1 CAYETANO-LONETREE 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.1	112.1	7.0	1120	Amps	Line
141	N-1 PITTSBURG - SAN RAMON 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	106.5	114.0	7.5	1120	Amps	Line
142	N-1 PITTSBURG - TASSAJAR 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	109.5	117.5	8.0	1120	Amps	Line
143	N-1 PITTSBURG - TIDEWATR 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.1	112.3	7.3	1120	Amps	Line
144	N-1 PITTSBURG - TESORO 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.8	112.0	7.2	1120	Amps	Line
145	N-1 PITTSBURG - EAST SHORE 230kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	113.5	114.6	1.1	1541	Amps	Line
146	N-1 PITTSBURG - TESLA C 230kV #1 LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.9	113.2	8.3	1120	Amps	Line
147	N-1 PITTSBURG - TESLA C 230kV #2 LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.9	113.2	8.3	1120	Amps	Line
148	N-1 PITTSBURG - SAN MATEO 230kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	113.5	114.6	1.1	1541	Amps	Line
148	N-1 PITTSBURG - SAN MATEO 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	116.8	126.1	9.3	1120	Amps	Line
149	N-1 TIDEWATR - SOBRANTE 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.6	111.8	7.3	1120	Amps	Line
150	N-1 MORAGA - CASTROVL 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.8	113.0	7.2	1120	Amps	Line
152	N-1 TASSAJAR - NEWARK E 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	107.1	115.1	8.0	1120	Amps	Line
154	N-1 PITTSBURG - POTRERO D.C. LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	120.5	127.5	7.0	1120	Amps	Line
157	N-1 JEFFERSON - MARTIN 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	106.0	112.4	6.4	1120	Amps	Line
159	N-1 EAST SHORE - SAN MATEO 230kV LINE	DUMBARTN 115.00-EASTSHRE 115.00 #1 1	186.3	201.6	15.3	949	Amps	Line
159	N-1 EAST SHORE - SAN MATEO 230kV LINE	DUMBARTN 115.00-NEWARK D 115.00 #1 1	90.6	99.8	9.3	1541	Amps	Line
160	N-1 NEWARK - RAVENSWOOD 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	116.4	122.9	6.4	1120	Amps	Line
161	N-1 TESLA - RAVENSWOOD 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	110.6	116.9	6.4	1120	Amps	Line
162	N-1 SAN MATEO - RAVENSWOOD #1 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.1	111.6	6.5	1120	Amps	Line
163	N-1 SAN MATEO - RAVENSWOOD #2 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.1	111.6	6.5	1120	Amps	Line
164	N-1 MONTA VISTA - JEFFERSON #1 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.3	80.0	-24.3	1120	Amps	Line
165	N-1 MONTA VISTA - JEFFERSON #2 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.9	111.8	6.9	1120	Amps	Line
167	N-1 DELTAPMP - TESLA D 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.3	111.3	7.0	1120	Amps	Line
169	N-1 CAYETANO-NDUBLIN 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.0	112.0	7.0	1120	Amps	Line
170	N-1 NDUBLIN-VINYARD 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.0	112.0	7.0	1120	Amps	Line
171	N-1 VINYARD - NEWARK 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.6	111.6	7.0	1120	Amps	Line
172	N-1 CASTROVL - NEWARK 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.2	112.3	7.2	1120	Amps	Line

Thermal Summary Results -Sorted by Contingency

Overloads shown in orange text is identified as pre-existing criteria violation

Overloads shown in grey text are triggered by multiple element contingencies. Mitigation typically can involve RAS or SPS.

OUTAGE NO	OUTAGE DESCRIPTION	OVERLOADED ELEMENT	PRE E PCT	POST E PCT	E DELTA	E RATE	UNIT	ELEMENT TYPE
175	N-1 LS PSTAS - NEWARK 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.0	112.0	7.0	1120	Amps	Line
176	N-1 TESLA - NEWARK 230kV #1 LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.5	111.4	6.9	1120	Amps	Line
177	N-1 NEWARK - NEWARK DIST 230kV LINE	NEWARK E 230.00-NWRK_11M 13.20 #11 0	94.7	98.4	3.7	462	MVA	XFMR
179	N-1 TESLA - NEWARK 230kV #2 LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	107.2	114.2	7.0	1120	Amps	Line
180	N-1 MONTAVIS - SARATOGA 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.2	111.2	7.0	1120	Amps	Line
181	N-1 MONTAVIS - HICKS 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.5	111.4	7.0	1120	Amps	Line
182	N-1 TSARATOGA - VASONA 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.7	111.6	6.9	1120	Amps	Line
183	N-1 VASONA - METCALF 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.8	111.8	7.0	1120	Amps	Line
184	N-1 MONTAVIS - METCALF 230kV #3 LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.8	111.8	6.9	1120	Amps	Line
185	N-1 MONTAVIS - METCALF ENERGY CENTER 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.9	111.8	6.9	1120	Amps	Line
187	N-1 HICKS - METCALF 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.0	112.0	7.0	1120	Amps	Line
199	N-1 OLEUM - NORTH TOWER - CHRISTIE 115kV LINE & NORTH TOWER LOAD	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.2	111.2	7.0	1120	Amps	Line
236	N-1 PITTSBURG - MARTINEZ 115kV #1 LINE & WILLOW PASS BART LOAD & BOLLMAN LOAD	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.4	111.3	7.0	1120	Amps	Line
249	N-1 SOBRANTE - MORAGA 115kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	80.0	111.2	31.2	1120	Amps	Line
285	N-1 BELMONT - BAIR 115kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.2	111.2	7.0	1120	Amps	Line
295	N-1 SAN FRANCISCO AIRPORT - UNITED COGEN 115kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	106.1	113.0	7.0	1120	Amps	Line
300	N-1 EAST SHORE - DUMBARTON 115kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	113.8	114.8	1.0	1541	Amps	Line
300	N-1 EAST SHORE - DUMBARTON 115kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	126.4	135.8	9.4	1120	Amps	Line
301	N-1 DUMBARTON - NEWARK D 115kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	113.3	122.6	9.3	1120	Amps	Line
304	N-1 NEWARK - NORTHERN #1 115kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	113.8	114.8	1.0	1541	Amps	Line
304	N-1 NEWARK - NORTHERN #1 115kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.9	112.0	7.1	1120	Amps	Line
305	N-1 NEWARK - NORTHERN #2 115kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	114.4	115.5	1.0	1541	Amps	Line
314	N-1 NEWARK - LAWRENCE - MOFFET - LOCKHEED 115kV LINE (Xfr. Lockheed)	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.2	111.2	7.0	1120	Amps	Line
315	N-1 NEWARK - AMD - APPLIED MATERIALS 115kV LINE (Xfr. Lockheed)	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.2	111.2	7.0	1120	Amps	Line
318	N-1 NEWARK - ZANKER - TRIMBLE 115kV LINE (Xfr. Agnews)	CP LECEF 115.00-LECEFTAP 115.00 #1 1	115.3	116.5	1.1	1541	Amps	Line
328	N-1 MONTA VISTA - PHILLIPS - LAWRENCE 115kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	113.4	80.0	-33.4	1541	Amps	Line
337	N-1 KIFER - FMC 115kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	114.1	115.2	1.1	1541	Amps	Line
354	N-1 GILROY - LLAGAS 115kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.4	111.3	7.0	1120	Amps	Line
361	N-1 CSC KIFER - DVR PP 115kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.3	111.3	7.0	1120	Amps	Line
362	N-1 CSC NORTHERN - SCOTT #1 115kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	119.3	120.4	1.1	1541	Amps	Line
362	N-1 CSC NORTHERN - SCOTT #1 115kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.6	111.6	7.0	1120	Amps	Line
379	N-1 HALF MOON BAY - HILLSDALE JCT 60kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.2	111.2	7.0	1120	Amps	Line
384	N-1 COOLEY LANDING - STANDFORD 60kV LINE (CLY LNDG-SRI)	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.4	111.3	7.0	1120	Amps	Line
389	N-1 COOLEY LANDING - STANDFORD 60kV LINE (SRI-MENLO)	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.4	111.4	7.0	1120	Amps	Line
406	T-1 TESLA 500/230kV #2 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.4	112.3	6.9	1120	Amps	Line
409	T-1 METCALF 500/230kV #11 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.5	111.5	7.0	1120	Amps	Line
410	T-1 METCALF 500/230kV #12 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.6	111.5	7.0	1120	Amps	Line
411	T-1 METCALF 500/230kV #13 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.6	111.5	7.0	1120	Amps	Line
418	T-1 PITTSBURG 230/115kV #12 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.1	111.2	7.0	1120	Amps	Line
419	T-1 PITTSBURG 230/115kV #13 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.1	111.2	7.0	1120	Amps	Line
420	T-1 SOBRANTE 230/115kV #1 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.5	111.5	7.1	1120	Amps	Line
421	T-1 SOBRANTE 230/115kV #2 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.4	111.5	7.0	1120	Amps	Line
426	T-1 JEFFERSON 230/60kV #1 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.4	112.3	6.9	1120	Amps	Line
434	T-1 EAST SHORE 230/115kV #1 XFMR BANK	E. SHORE 230.00-EASTSHRE 115.00 #2 0	129.7	135.2	5.4	161	MVA	XFMR

Thermal Summary Results -Sorted by Contingency

Overloads shown in orange text is identified as pre-existing criteria violation

Overloads shown in grey text are triggered by multiple element contingencies. Mitigation typically can involve RAS or SPS.

OUTAGE NO	OUTAGE DESCRIPTION	OVERLOADED ELEMENT	PRE E PCT	POST E PCT	E DELTA	E RATE	UNIT	ELEMENT TYPE
434	T-1 EAST SHORE 230/115kV #1 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	121.0	128.9	7.8	1120	Amps	Line
435	T-1 EAST SHORE 230/115kV #2 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	106.4	113.5	7.1	1120	Amps	Line
438	T-1 NEWARK 230/115kV #7 XFMR BANK	CP LECEF 115.00-LECEFTAP 115.00 #1 1	118.0	119.1	1.1	1541	Amps	Line
438	T-1 NEWARK 230/115kV #7 XFMR BANK	NEWARK E 230.00-NWRK_11M 13.20 #11 0	101.1	103.5	2.4	462	MVA	XFMR
438	T-1 NEWARK 230/115kV #7 XFMR BANK	NEWARK F 115.00-NWRK_11M 13.20 #11 0	96.5	98.8	2.3	462	MVA	XFMR
439	T-1 NEWARK 230/115kV #11 XFMR BANK	CP LECEF 115.00-LECEFTAP 115.00 #1 1	119.8	121.0	1.2	1541	Amps	Line
447	T-1 LOS ESTEROS 230/115kV #3 XFMR BANK	CP LECEF 115.00-LECEFTAP 115.00 #1 1	125.9	127.1	1.2	1541	Amps	Line
448	T-1 LOS ESTEROS 230/115kV #4 XFMR BANK	CP LECEF 115.00-LECEFTAP 115.00 #1 1	125.9	127.1	1.2	1541	Amps	Line
458	T-1 BAIR 115/60kV #1 XFMR BANK	ORACLE60 60.00-SAN MATO 60.00 #1 1	106.0	107.4	1.3	557	Amps	Line
461	T-1 SAN MATEO 115/60kV #8 XFMR BANK	SAN MATO 60.00-SMATEO3M 115.00 #3 0	102.6	106.4	3.8	68	MVA	XFMR
461	T-1 SAN MATEO 115/60kV #8 XFMR BANK	SANMATEO 115.00-SMATEO3M 115.00 #3 0	103.4	107.2	3.8	68	MVA	XFMR
467	T-1 CSC NORTHERN 115/60kV #1 XFMR BANK	NRS 400 115.00-SRS 115.00 #1 1	107.9	109.3	1.4	1144	Amps	Line
468	T-1 CSC NORTHERN 115/60kV #NA XFMR BANK	NRS 400 115.00-SRS 115.00 #1 1	107.9	109.3	1.4	1144	Amps	Line
615	G-1 POTRERO #3	E. SHORE 230.00-SANMATEO 230.00 #1 1	109.9	116.8	7.0	1120	Amps	Line
616	G-1 POTRERO #4 CT	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.4	112.3	7.0	1120	Amps	Line
617	G-1 POTRERO #5 CT	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.4	112.3	7.0	1120	Amps	Line
618	G-1 POTRERO #6 CT	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.4	112.3	7.0	1120	Amps	Line
622	G-1 UNITED COGEN SFQF	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.8	111.7	7.0	1120	Amps	Line
624	G-1 CARDINAL #1	CLY LNDG 60.00-S.R.I. 60.00 #1 1	103.8	105.5	1.7	599	Amps	Line
624	G-1 CARDINAL #1	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.5	111.5	7.0	1120	Amps	Line
624	G-1 CARDINAL #1	GLENWOOD 60.00-S.R.I. 60.00 #1 1	121.1	123.0	1.9	523	Amps	Line
642	G-1 MEC CTG1	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.3	111.3	7.0	1120	Amps	Line
643	G-1 MEC CTG2	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.3	111.3	7.0	1120	Amps	Line
644	G-1 MEC STG1	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.4	111.4	7.0	1120	Amps	Line
645	G-1 MEC PLANT	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.2	112.2	7.0	1120	Amps	Line
664	G-1 MOSS LANDING #7	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.5	111.5	7.0	1120	Amps	Line

Thermal Summary Results - [G-1] Contingencies

OUTAGE NO	OUTAGE DESCRIPTION	OVERLOADED ELEMENT	PRE E PCT	POST E PCT	E DELTA	E RATE	UNIT	ELEMENT TYPE
615	G-1 POTRERO #3	E. SHORE 230.00-SANMATEO 230.00 #1 1	109.9	116.8	7.0	1120	Amps	Line
616	G-1 POTRERO #4 CT	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.4	112.3	7.0	1120	Amps	Line
617	G-1 POTRERO #5 CT	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.4	112.3	7.0	1120	Amps	Line
618	G-1 POTRERO #6 CT	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.4	112.3	7.0	1120	Amps	Line
622	G-1 UNITED COGEN SFQF	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.8	111.7	7.0	1120	Amps	Line
624	G-1 CARDINAL #1	CLY LNDG 60.00-S.R.I. 60.00 #1 1	103.8	105.5	1.7	599	Amps	Line
624	G-1 CARDINAL #1	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.5	111.5	7.0	1120	Amps	Line
624	G-1 CARDINAL #1	GLENWOOD 60.00-S.R.I. 60.00 #1 1	121.1	123.0	1.9	523	Amps	Line
642	G-1 MEC CTG1	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.3	111.3	7.0	1120	Amps	Line
643	G-1 MEC CTG2	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.3	111.3	7.0	1120	Amps	Line
644	G-1 MEC STG1	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.4	111.4	7.0	1120	Amps	Line
645	G-1 MEC PLANT	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.2	112.2	7.0	1120	Amps	Line
664	G-1 MOSS LANDING #7	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.5	111.5	7.0	1120	Amps	Line

Thermal Summary Results -[N-1] Contingencies

OUTAGE NO	OUTAGE DESCRIPTION	OVERLOADED ELEMENT	PRE E PCT	POST E PCT	E DELTA	E RATE	UNIT	ELEMENT TYPE
102	N-1 TABLE MT-TESLA 500kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.6	111.6	7.0	1120	Amps	Line
104	N-1 MAXWELL-TRACY 500kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.9	111.9	7.1	1120	Amps	Line
105	N-1 TRACY-LOSBANOS 500kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	113.6	114.7	1.1	1541	Amps	Line
105	N-1 TRACY-LOSBANOS 500kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.4	111.4	7.1	1120	Amps	Line
107	N-1 TESLA-METCALF 500kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	119.1	120.3	1.1	1541	Amps	Line
107	N-1 TESLA-METCALF 500kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	108.6	115.8	7.1	1120	Amps	Line
107	N-1 TESLA-METCALF 500kV LINE	SJ B E 115.00-TRIMBLE 115.00 #1 1	100.5	107.1	6.5	924	Amps	Line
108	N-1 TESLA-LOSBANOS 500kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	113.6	114.7	1.1	1541	Amps	Line
108	N-1 TESLA-LOSBANOS 500kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.4	111.5	7.1	1120	Amps	Line
109	N-1 METCALF-MOSSLAND 500kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	113.5	80.0	-33.5	1541	Amps	Line
110	N-1 MOSSLAND-LOSBANOS 500kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	113.5	80.0	-33.5	1541	Amps	Line
119	N-1 LAKEVILE-SOBRANTE 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	80.0	111.2	31.2	1120	Amps	Line
134	N-1 C.COSTA - BRENTWOOD 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.4	111.4	7.0	1120	Amps	Line
135	N-1 C.COSTA - DELTAPMP 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.3	111.3	7.0	1120	Amps	Line
136	N-1 C.COSTA - LS PSTAS 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.2	112.2	7.0	1120	Amps	Line
137	N-1 LONETREE-C.COSTA 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.5	112.5	7.0	1120	Amps	Line
138	N-1 CAYETANO-LONETREE 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.1	112.1	7.0	1120	Amps	Line
141	N-1 PITTSBURG - SAN RAMON 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	106.5	114.0	7.5	1120	Amps	Line
142	N-1 PITTSBURG - TASSAJAR 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	109.5	117.5	8.0	1120	Amps	Line
143	N-1 PITTSBURG - TIDEWATR 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.1	112.3	7.3	1120	Amps	Line
144	N-1 PITTSBURG - TESORO 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.8	112.0	7.2	1120	Amps	Line
145	N-1 PITTSBURG - EAST SHORE 230kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	113.5	114.6	1.1	1541	Amps	Line
146	N-1 PITTSBURG - TESLA C 230kV #1 LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.9	113.2	8.3	1120	Amps	Line
147	N-1 PITTSBURG - TESLA C 230kV #2 LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.9	113.2	8.3	1120	Amps	Line
148	N-1 PITTSBURG - SAN MATEO 230kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	113.5	114.6	1.1	1541	Amps	Line
148	N-1 PITTSBURG - SAN MATEO 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	116.8	126.1	9.3	1120	Amps	Line
149	N-1 TIDEWATR - SOBRANTE 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.6	111.8	7.3	1120	Amps	Line
150	N-1 MORAGA - CASTROVL 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.8	113.0	7.2	1120	Amps	Line
152	N-1 TASSAJAR - NEWARK E 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	107.1	115.1	8.0	1120	Amps	Line
154	N-1 PITTSBURG - POTRERO D.C. LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	120.5	127.5	7.0	1120	Amps	Line
157	N-1 JEFFERSON - MARTIN 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	106.0	112.4	6.4	1120	Amps	Line
159	N-1 EAST SHORE - SAN MATEO 230kV LINE	DUMBARTN 115.00-EASTSHRE 115.00 #1 1	186.3	201.6	15.3	949	Amps	Line
159	N-1 EAST SHORE - SAN MATEO 230kV LINE	DUMBARTN 115.00-NEWARK D 115.00 #1 1	90.6	99.8	9.3	1541	Amps	Line
160	N-1 NEWARK - RAVENSWOOD 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	116.4	122.9	6.4	1120	Amps	Line
161	N-1 TESLA - RAVENSWOOD 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	110.6	116.9	6.4	1120	Amps	Line
162	N-1 SAN MATEO - RAVENSWOOD #1 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.1	111.6	6.5	1120	Amps	Line
163	N-1 SAN MATEO - RAVENSWOOD #2 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.1	111.6	6.5	1120	Amps	Line
164	N-1 MONTA VISTA - JEFFERSON #1 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.3	80.0	-24.3	1120	Amps	Line
165	N-1 MONTA VISTA - JEFFERSON #2 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.9	111.8	6.9	1120	Amps	Line
167	N-1 DELTAPMP - TESLA D 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.3	111.3	7.0	1120	Amps	Line
169	N-1 CAYETANO-NDUBLIN 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.0	112.0	7.0	1120	Amps	Line
170	N-1 NDUBLIN-VINYARD 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.0	112.0	7.0	1120	Amps	Line
171	N-1 VINYARD - NEWARK 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.6	111.6	7.0	1120	Amps	Line

Thermal Summary Results -[N-1] Contingencies

OUTAGE NO	OUTAGE DESCRIPTION	OVERLOADED ELEMENT	PRE E PCT	POST E PCT	E DELTA	E RATE	UNIT	ELEMENT TYPE
172	N-1 CASTROVL - NEWARK 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.2	112.3	7.2	1120	Amps	Line
175	N-1 LS PSTAS - NEWARK 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.0	112.0	7.0	1120	Amps	Line
176	N-1 TESLA - NEWARK 230kV #1 LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.5	111.4	6.9	1120	Amps	Line
177	N-1 NEWARK - NEWARK DIST 230kV LINE	NEWARK E 230.00-NWRK_11M 13.20 #11 0	94.7	98.4	3.7	462	MVA	XFMR
179	N-1 TESLA - NEWARK 230kV #2 LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	107.2	114.2	7.0	1120	Amps	Line
180	N-1 MONTAVIS - SARATOGA 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.2	111.2	7.0	1120	Amps	Line
181	N-1 MONTAVIS - HICKS 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.5	111.4	7.0	1120	Amps	Line
182	N-1 TSARATOGA - VASONA 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.7	111.6	6.9	1120	Amps	Line
183	N-1 VASONA - METCALF 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.8	111.8	7.0	1120	Amps	Line
184	N-1 MONTAVIS - METCALF 230kV #3 LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.8	111.8	6.9	1120	Amps	Line
185	N-1 MONTAVIS - METCALF ENERGY CENTER 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.9	111.8	6.9	1120	Amps	Line
187	N-1 HICKS - METCALF 230kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.0	112.0	7.0	1120	Amps	Line
199	N-1 OLEUM - NORTH TOWER - CHRISTIE 115kV LINE & NORTH TOWER LOAD	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.2	111.2	7.0	1120	Amps	Line
236	N-1 PITTSBURG - MARTINEZ 115kV #1 LINE & WILLOW PASS BART LOAD & BOLLMAN LOAD	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.4	111.3	7.0	1120	Amps	Line
249	N-1 SOBRANTE - MORAGA 115kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	80.0	111.2	31.2	1120	Amps	Line
285	N-1 BELMONT - BAIR 115kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.2	111.2	7.0	1120	Amps	Line
295	N-1 SAN FRANCISCO AIRPORT - UNITED COGEN 115kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	106.1	113.0	7.0	1120	Amps	Line
300	N-1 EAST SHORE - DUMBARTON 115kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	113.8	114.8	1.0	1541	Amps	Line
300	N-1 EAST SHORE - DUMBARTON 115kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	126.4	135.8	9.4	1120	Amps	Line
301	N-1 DUMBARTON - NEWARK D 115kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	113.3	122.6	9.3	1120	Amps	Line
304	N-1 NEWARK - NORTHERN #1 115kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	113.8	114.8	1.0	1541	Amps	Line
304	N-1 NEWARK - NORTHERN #1 115kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.9	112.0	7.1	1120	Amps	Line
305	N-1 NEWARK - NORTHERN #2 115kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	114.4	115.5	1.0	1541	Amps	Line
314	N-1 NEWARK - LAWRENCE - MOFFET - LOCKHEED 115kV LINE (Xfr. Lockheed)	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.2	111.2	7.0	1120	Amps	Line
315	N-1 NEWARK - AMD - APPLIED MATERIALS 115kV LINE (Xfr. Lockheed)	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.2	111.2	7.0	1120	Amps	Line
318	N-1 NEWARK - ZANKER - TRIMBLE 115kV LINE (Xfr. Agnews)	CP LECEF 115.00-LECEFTAP 115.00 #1 1	115.3	116.5	1.1	1541	Amps	Line
328	N-1 MONTA VISTA - PHILLIPS - LAWRENCE 115kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	113.4	80.0	-33.4	1541	Amps	Line
337	N-1 KIFER - FMC 115kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	114.1	115.2	1.1	1541	Amps	Line
354	N-1 GILROY - LLAGAS 115kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.4	111.3	7.0	1120	Amps	Line
361	N-1 CSC KIFER - DVR PP 115kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.3	111.3	7.0	1120	Amps	Line
362	N-1 CSC NORTHERN - SCOTT #1 115kV LINE	CP LECEF 115.00-LECEFTAP 115.00 #1 1	119.3	120.4	1.1	1541	Amps	Line
362	N-1 CSC NORTHERN - SCOTT #1 115kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.6	111.6	7.0	1120	Amps	Line
379	N-1 HALF MOON BAY - HILLSDALE JCT 60kV LINE	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.2	111.2	7.0	1120	Amps	Line
384	N-1 COOLEY LANDING - STANDFORD 60kV LINE (CLY LNDG-SRI)	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.4	111.3	7.0	1120	Amps	Line
389	N-1 COOLEY LANDING - STANDFORD 60kV LINE (SRI-MENLO)	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.4	111.4	7.0	1120	Amps	Line

Thermal Summary Results -[T-1] Contingencies

OUTAGE NO	OUTAGE DESCRIPTION	OVERLOADED ELEMENT	PRE E PCT	POST E PCT	E DELTA	E RATE	UNIT	ELEMENT TYPE
406	T-1 TESLA 500/230kV #2 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.4	112.3	6.9	1120	Amps	Line
409	T-1 METCALF 500/230kV #11 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.5	111.5	7.0	1120	Amps	Line
410	T-1 METCALF 500/230kV #12 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.6	111.5	7.0	1120	Amps	Line
411	T-1 METCALF 500/230kV #13 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.6	111.5	7.0	1120	Amps	Line
418	T-1 PITTSBURG 230/115kV #12 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.1	111.2	7.0	1120	Amps	Line
419	T-1 PITTSBURG 230/115kV #13 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.1	111.2	7.0	1120	Amps	Line
420	T-1 SOBRANTE 230/115kV #1 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.5	111.5	7.1	1120	Amps	Line
421	T-1 SOBRANTE 230/115kV #2 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.4	111.5	7.0	1120	Amps	Line
426	T-1 JEFFERSON 230/60kV #1 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.4	112.3	6.9	1120	Amps	Line
434	T-1 EAST SHORE 230/115kV #1 XFMR BANK	E. SHORE 230.00-EASTSHRE 115.00 #2 0	129.7	135.2	5.4	161	MVA	XFMR
434	T-1 EAST SHORE 230/115kV #1 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	121.0	128.9	7.8	1120	Amps	Line
435	T-1 EAST SHORE 230/115kV #2 XFMR BANK	E. SHORE 230.00-SANMATEO 230.00 #1 1	106.4	113.5	7.1	1120	Amps	Line
438	T-1 NEWARK 230/115kV #7 XFMR BANK	CP LECEF 115.00-LECEFTAP 115.00 #1 1	118.0	119.1	1.1	1541	Amps	Line
438	T-1 NEWARK 230/115kV #7 XFMR BANK	NEWARK E 230.00-NWRK_11M 13.20 #11 0	101.1	103.5	2.4	462	MVA	XFMR
438	T-1 NEWARK 230/115kV #7 XFMR BANK	NEWARK F 115.00-NWRK_11M 13.20 #11 0	96.5	98.8	2.3	462	MVA	XFMR
439	T-1 NEWARK 230/115kV #11 XFMR BANK	CP LECEF 115.00-LECEFTAP 115.00 #1 1	119.8	121.0	1.2	1541	Amps	Line
447	T-1 LOS ESTEROS 230/115kV #3 XFMR BANK	CP LECEF 115.00-LECEFTAP 115.00 #1 1	125.9	127.1	1.2	1541	Amps	Line
448	T-1 LOS ESTEROS 230/115kV #4 XFMR BANK	CP LECEF 115.00-LECEFTAP 115.00 #1 1	125.9	127.1	1.2	1541	Amps	Line
458	T-1 BAIR 115/60kV #1 XFMR BANK	ORACLE60 60.00-SAN MATO 60.00 #1 1	106.0	107.4	1.3	557	Amps	Line
461	T-1 SAN MATEO 115/60kV #8 XFMR BANK	SAN MATO 60.00-SMATEO3M 115.00 #3 0	102.6	106.4	3.8	68	MVA	XFMR
461	T-1 SAN MATEO 115/60kV #8 XFMR BANK	SANMATEO 115.00-SMATEO3M 115.00 #3 0	103.4	107.2	3.8	68	MVA	XFMR
467	T-1 CSC NORTHERN 115/60kV #1 XFMR BANK	NRS 400 115.00-SRS 115.00 #1 1	107.9	109.3	1.4	1144	Amps	Line
468	T-1 CSC NORTHERN 115/60kV #NA XFMR BANK	NRS 400 115.00-SRS 115.00 #1 1	107.9	109.3	1.4	1144	Amps	Line

Thermal Summary Results -[N-2] Contingencies

OUTAGE NO	OUTAGE DESCRIPTION	OVERLOADED ELEMENT	PRE E PCT	POST E PCT	E DELTA	E RATE	UNIT	ELEMENT TYPE
340	N-2 METCALF - EL PATIO(IBM HR) #1 & #2 LINES	SJ B E 115.00-TRIMBLE 115.00 #1 1	119.9	123.3	3.3	924	Amps	Line
480	N-2 CONTRA COSTA SUB - COCO&BIRDS LANDING - CONTRA COSTA SUB 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.2	111.2	7.0	1120	Amps	Line
482	N-2 CONTRA COSTA - LOS PSTAS & CONTRA COSTA - CAYETANO 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	107.0	114.0	7.0	1120	Amps	Line
483	N-2 CAYETANO - NDUBLIN & CONTRA COSTA - CAYETANO 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.2	112.2	7.0	1120	Amps	Line
484	N-2 PITTSBURG - TESORO & PITTSBURG - TIDEWATER 230kV LINES	ALHAMTP2 115.00-MARTNZ D 115.00 #1 1	83.8	101.8	18.0	487	Amps	Line
484	N-2 PITTSBURG - TESORO & PITTSBURG - TIDEWATER 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	108.3	116.5	8.2	1120	Amps	Line
485	N-2 TESORO - SOBRANTE & TIDEWATER - SOBRANTE 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	107.1	115.3	8.2	1120	Amps	Line
486	N-2 PITTSBURG - SANMATEO & PITTSBURG - EAST SHORE 230kV LINES	CP LECEF 115.00-LECEFTAP 115.00 #1 1	114.2	115.5	1.2	1541	Amps	Line
487	N-2 PITTSBURG - TESLA #1 & #2 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	106.7	117.6	10.8	1120	Amps	Line
488	N-2 PITTSBURG - TASSAJARA & PITTSBURG - SAN RAMON 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	112.9	121.7	8.7	1120	Amps	Line
490	N-2 MORAGA - SANRAMON & MORAGA - CASTROVALLY 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.1	112.6	7.5	1120	Amps	Line
491	N-2 MORAGA - SANRAMON & CASTROVALLY - NEWARK 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.5	112.0	7.5	1120	Amps	Line
492	N-2 PITTSBURG - SAN MATEO & EAST SHORE - SAN MATEO 230kV LINES	DUMBARTN 115.00-EASTSHRE 115.00 #1 1	198.9	216.2	17.3	949	Amps	Line
492	N-2 PITTSBURG - SAN MATEO & EAST SHORE - SAN MATEO 230kV LINES	DUMBARTN 115.00-NEWARK D 115.00 #1 1	98.1	108.6	10.5	1541	Amps	Line
493	N-2 TESLA - NEWARK & TESLA - RAVENSWOOD 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	113.2	119.3	6.1	1120	Amps	Line
494	N-2 RAVENSWOOD - SAN MATEO #1 & #2 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	110.5	114.7	4.2	1120	Amps	Line
495	N-2 MONTAVISTA - JEFFERSON 230kV #1 & #2 LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	109.1	115.4	6.2	1120	Amps	Line
495	N-2 MONTAVISTA - JEFFERSON 230kV #1 & #2 LINES	GLENWOOD 60.00-S.R.I. 60.00 #1 1	105.0	103.7	-1.3	523	Amps	Line
496	N-2 NORTH DUBLIN - VINYARD & CONTRA COSTA - LOS PASITAS 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	106.7	113.7	7.0	1120	Amps	Line
497	N-2 NORTH DUBLIN - VINYARD & LOS PASITAS - NEWARK 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	106.4	113.4	7.0	1120	Amps	Line
498	N-2 TESLA - NEWARK #2 & NWK DIST - LOS ESTEROS 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	106.4	113.3	6.9	1120	Amps	Line
499	N-2 MONTAVISTA - SARATOGA & MONTAVISTA - HICKS 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.0	111.9	6.9	1120	Amps	Line
500	N-2 VASONA - METCALF & MOTAVISTA - HICKS 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.8	112.7	6.9	1120	Amps	Line
501	N-2 MONTAVIS - METCALF & MONTAVIS - MEC 230kV #3 & #4 LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	106.5	113.4	6.9	1120	Amps	Line
502	N-2 NEWARK - LOS ESTEROS & LOS ESTEROS - METCALF 230kV LINES	NEWARK E 230.00-NWRK_11M 13.20 #11 0	96.2	99.5	3.3	462	MVA	XFMR
503	N-2 METCALF - HICKS & METCALF - VASONA 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	106.6	113.5	6.9	1120	Amps	Line
505	N-2 TESLA - KELSO&TESLA - DELTAPUMP 230kV LINES	CP LECEF 115.00-LECEFTAP 115.00 #1 1	80.0	114.4	34.4	1541	Amps	Line
505	N-2 TESLA - KELSO&TESLA - DELTAPUMP 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.6	111.7	7.1	1120	Amps	Line
506	N-2 LOS ESTEROS - METCALF & TESLA - NEWARK 230kV #2 LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	107.1	114.1	7.0	1120	Amps	Line
507	N-2 PITTSBURG - SANRAMON&TASSAJAR - NEWARK 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	110.3	119.0	8.7	1120	Amps	Line
508	N-2 MORAGA - SANRAMON&TASSAJAR - NEWARK 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	106.6	115.1	8.6	1120	Amps	Line
509	N-2 CASTROVL - NEWARK&TASSAJAR - NEWARK 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	108.8	117.1	8.3	1120	Amps	Line
510	N-2 LS PSTAS - NEWARK&VINEYARD - NEWARK 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	106.0	113.0	7.0	1120	Amps	Line
511	N-2 HICKS - METCALF & SARATOGA - VASONA 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	106.3	113.2	6.9	1120	Amps	Line
512	N-2 HICKS - MOTAVISTA & VASONA - SARATOGA 230kV LINES	CP LECEF 115.00-LECEFTAP 115.00 #1 1	113.4	80.0	-33.4	1541	Amps	Line
512	N-2 HICKS - MOTAVISTA & VASONA - SARATOGA 230kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	105.6	112.5	6.9	1120	Amps	Line
514	N-2 EI CERETO - SOBRANTE 115kV #1 & #2 LINES	ALHAMTP2 115.00-MARTNZ D 115.00 #1 1	106.4	111.8	5.3	487	Amps	Line
514	N-2 EI CERETO - SOBRANTE 115kV #1 & #2 LINES	ALHAMTP2 115.00-OLEUM 115.00 #1 1	99.4	104.3	4.9	522	Amps	Line
514	N-2 EI CERETO - SOBRANTE 115kV #1 & #2 LINES	CHRISTIE 115.00-SOBRANTE 115.00 #1 1	98.4	93.8	-4.6	523	Amps	Line
515	N-2 RICHMOND R - SOBRANTE 115kV #1 & #2 LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.4	111.4	7.0	1120	Amps	Line
516	N-2 SOBRANTE - STANDARD OIL 115kV #1 & #2 LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.5	111.5	7.0	1120	Amps	Line
517	N-2 SOBRANTE - GRIZLY - CLAIRMONT 115kV #1 & #2 LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.3	111.3	7.0	1120	Amps	Line
518	N-2 OLEUM - MARTINEZ&LINEOLEUM - N.TOWER-CHRISTE 115kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.4	111.3	7.0	1120	Amps	Line
519	N-2 OLEUM - NTR - CHRITIE&MARTNZ - ALHABRA - SOBRANTE 115kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.3	111.3	7.0	1120	Amps	Line

Thermal Summary Results -[N-2] Contingencies

OUTAGE NO	OUTAGE DESCRIPTION	OVERLOADED ELEMENT	PRE E PCT	POST E PCT	E DELTA	E RATE	UNIT	ELEMENT TYPE
520	N-2 MARTINEZ - SOBRANTE 115kV LINE & OLEUM - MARTINEZ 115kV LINES & ALHAMBRA LOA	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.5	111.5	7.1	1120	Amps	Line
521	N-2 OLEUM - EL CERRITO STATION G 115kV LINES 1 & 2 & VALLEY VIEW LOAD	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.2	111.2	7.0	1120	Amps	Line
526	N-2 PITTS - MARTZ 115kV #1 & #2 LINES, WP BART, BOLLMAN, CCCSD LD & CCCSD	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.7	111.7	7.0	1120	Amps	Line
527	N-2 PITTSBURG - CLAYTON 115kV #1 & #3 LINE & KIRKER LD RADIAL FROM PITTS-KIRKER	CLAYTN 115.00-PITTSBURG 115.00 #4 1	133.9	139.2	5.3	1486	Amps	Line
527	N-2 PITTSBURG - CLAYTON 115kV #1 & #3 LINE & KIRKER LD RADIAL FROM PITTS-KIRKER	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.3	111.3	7.0	1120	Amps	Line
533	N-2 RAVENSWOOD - BAIR #1 & #2 115kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.9	111.9	7.0	1120	Amps	Line
535	N-2 EASTSHORE - MT EDEN #1 & #2 115kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	114.7	121.7	7.0	1120	Amps	Line
536	N-2 NEWARK - NORTHERN #1 & #2 115kV LINES	CP LECEF 115.00-LECEFTAP 115.00 #1 1	115.8	116.9	1.1	1541	Amps	Line
536	N-2 NEWARK - NORTHERN #1 & #2 115kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.9	112.0	7.1	1120	Amps	Line
537	N-2 NEWARK - LAWRENCE - MOFFET - LOCKHEED&NEWARK - AMD - APPLIED MATERIALS 115kV	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.5	111.5	7.0	1120	Amps	Line
542	N-2 NORTHERN - SCOTT #1 & #2 115kV LINES	CP LECEF 115.00-LECEFTAP 115.00 #1 1	115.4	116.5	1.1	1541	Amps	Line
542	N-2 NORTHERN - SCOTT #1 & #2 115kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.6	111.6	7.0	1120	Amps	Line
542	N-2 NORTHERN - SCOTT #1 & #2 115kV LINES	SJ B E 115.00-TRIMBLE 115.00 #1 1	95.6	101.5	5.8	924	Amps	Line
548	N-2 TRIBBLE - SAN JOSE B&KIFER - FMC-SAN JOSE B 115kV LINES	E. SHORE 230.00-SANMATEO 230.00 #1 1	104.2	111.2	7.0	1120	Amps	Line
550	N-2 METCALF - EVERGREEN - STONE - GE #2&METCALF-EVERGREEN #1 115kV LINES	SJ B E 115.00-TRIMBLE 115.00 #1 1	99.6	103.2	3.6	924	Amps	Line

Voltage Summary Result Sorted by Contingency

OUTAGE NO	OUTAGE DESCRIPTION	BUS NO	BUS NAME	BASE KV	PRE BASE V PU	POST BASE V PU	PRE CONT V PU	POST CONT V PU	PRE V DEVIATION	POST V DEVIATION	PRE NOTES	POST NOTES
196 N-1	TRACY - LIVERMORE LABS 230kV LINE	37560	LLNL	230	1.018	1.016	0.963	0.962	-5.353	-5.287	DEVIATION LT -4 PCT	DEVIATION LT -4 PCT
316 N-1	NEWARK - DIXON LANDING 115kV LINE	35630	MABURY	115	1.015	1.014	0.957	0.956	-5.712	-5.722	DEVIATION LT -4 PCT	DEVIATION LT -4 PCT
316 N-1	NEWARK - DIXON LANDING 115kV LINE	35629	MABURY J	115	1.017	1.016	0.959	0.958	-5.690	-5.701	DEVIATION LT -4 PCT	DEVIATION LT -4 PCT
316 N-1	NEWARK - DIXON LANDING 115kV LINE	35626	MCKEE	115	1.016	1.015	0.963	0.963	-5.145	-5.158	DEVIATION LT -4 PCT	DEVIATION LT -4 PCT
316 N-1	NEWARK - DIXON LANDING 115kV LINE	35600	DIXON LD	115	1.024	1.023	0.949	0.948	-7.337	-7.341	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
355 N-1	METCALF E - PIERCY 115kV LINE	35656	PIERCY	115	1.030	1.030	0.960	0.959	-6.850	-6.893	DEVIATION LT -4 PCT	DEVIATION LT -4 PCT
384 N-1	COOLEY LANDING - STANDFORD 60kV LINE (CLY LNDG-SRI)	33388	S.L.A.C.	60	1.004	1.004	0.803	0.802	-20.046	-20.116	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
384 N-1	COOLEY LANDING - STANDFORD 60kV LINE (CLY LNDG-SRI)	33393	LSPLGSJT	60	1.015	1.013	0.937	0.936	-7.671	-7.604	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
384 N-1	COOLEY LANDING - STANDFORD 60kV LINE (CLY LNDG-SRI)	33384	MNLO JCT	60	1.007	1.007	0.799	0.798	-20.638	-20.707	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
384 N-1	COOLEY LANDING - STANDFORD 60kV LINE (CLY LNDG-SRI)	33390	MENLO G	60	1.004	1.004	0.802	0.801	-20.169	-20.239	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
384 N-1	COOLEY LANDING - STANDFORD 60kV LINE (CLY LNDG-SRI)	33385	MNLOJCT2	60	1.004	1.004	0.803	0.802	-20.047	-20.116	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
384 N-1	COOLEY LANDING - STANDFORD 60kV LINE (CLY LNDG-SRI)	33386	STANFORD	60	1.010	1.010	0.796	0.795	-21.259	-21.327	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
384 N-1	COOLEY LANDING - STANDFORD 60kV LINE (CLY LNDG-SRI)	33383	MENLO	60	1.004	1.004	0.802	0.801	-20.111	-20.179	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
384 N-1	COOLEY LANDING - STANDFORD 60kV LINE (CLY LNDG-SRI)	33381	GLENWOOD	60	1.014	1.014	0.791	0.790	-21.966	-22.024	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
389 N-1	COOLEY LANDING - STANDFORD 60kV LINE (SRI-MENLO)	33388	S.L.A.C.	60	1.004	1.004	0.874	0.874	-12.934	-12.991	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
389 N-1	COOLEY LANDING - STANDFORD 60kV LINE (SRI-MENLO)	33390	MENLO G	60	1.004	1.004	0.875	0.874	-12.869	-12.927	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
389 N-1	COOLEY LANDING - STANDFORD 60kV LINE (SRI-MENLO)	33386	STANFORD	60	1.010	1.010	0.873	0.872	-13.639	-13.695	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
389 N-1	COOLEY LANDING - STANDFORD 60kV LINE (SRI-MENLO)	33393	LSPLGSJT	60	1.015	1.013	0.959	0.958	-5.502	-5.429	DEVIATION LT -4 PCT	DEVIATION LT -4 PCT
389 N-1	COOLEY LANDING - STANDFORD 60kV LINE (SRI-MENLO)	33385	MNLOJCT2	60	1.004	1.004	0.876	0.875	-12.821	-12.878	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
389 N-1	COOLEY LANDING - STANDFORD 60kV LINE (SRI-MENLO)	33383	MENLO	60	1.004	1.004	0.875	0.875	-12.846	-12.903	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
403 N-1	EVERGREEN - SENTER - ALMADEN 60kV LINE (Xfr. Almaden)	35757	ALMADEN	60	1.053	1.053	0.958	0.966	-8.079	-8.265	DEVIATION LT -4 PCT	DEVIATION LT -4 PCT
426 T-1	JEFFERSON 230/60kV #1 XFMR BANK	33362	CRYSTLSG	60	0.998	0.997	0.921	0.920	-7.736	-7.733	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
426 T-1	JEFFERSON 230/60kV #1 XFMR BANK	33393	LSPLGSJT	60	1.015	1.013	0.944	0.944	-6.912	-6.854	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
426 T-1	JEFFERSON 230/60kV #1 XFMR BANK	33360	JEFRSN_D	60	1.006	1.005	0.930	0.929	-7.596	-7.593	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
426 T-1	JEFFERSON 230/60kV #1 XFMR BANK	33363	RALSTON	60	0.998	0.997	0.921	0.920	-7.728	-7.725	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
426 T-1	JEFFERSON 230/60kV #1 XFMR BANK	33400	JEFRSN_E	60	1.006	1.005	0.930	0.929	-7.597	-7.594	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
426 T-1	JEFFERSON 230/60kV #1 XFMR BANK	33379	WATRSHED	60	1.003	1.002	0.939	0.938	-6.324	-6.322	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
426 T-1	JEFFERSON 230/60kV #1 XFMR BANK	33397	RLSTN35	60	1.001	1.000	0.944	0.943	-5.770	-5.769	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
426 T-1	JEFFERSON 230/60kV #1 XFMR BANK	33399	HILDAL47	60	0.998	0.997	0.921	0.920	-7.729	-7.726	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
426 T-1	JEFFERSON 230/60kV #1 XFMR BANK	33378	WTRSHDTP	60	1.003	1.002	0.939	0.938	-6.323	-6.320	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
426 T-1	JEFFERSON 230/60kV #1 XFMR BANK	33387	WOODSIDE	60	0.987	0.986	0.909	0.908	-7.914	-7.911	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
426 T-1	JEFFERSON 230/60kV #1 XFMR BANK	33349	CAROLD2	60	0.998	0.997	0.921	0.920	-7.737	-7.733	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
426 T-1	JEFFERSON 230/60kV #1 XFMR BANK	33376	LAS PLGS	60	0.985	0.984	0.907	0.906	-7.948	-7.945	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
426 T-1	JEFFERSON 230/60kV #1 XFMR BANK	33377	EMRLD LE	60	1.007	1.006	0.932	0.931	-7.504	-7.491	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
426 T-1	JEFFERSON 230/60kV #1 XFMR BANK	33398	RLSTN45	60	0.999	0.998	0.921	0.920	-7.726	-7.723	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
436 T-1	LOS POSITAS 230/60kV #4 XFMR BANK	35201	VASCO	60	1.003	1.003	0.940	0.941	-6.260	-6.165	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
436 T-1	LOS POSITAS 230/60kV #4 XFMR BANK	35200	SEAWEST	60	1.004	1.003	0.941	0.941	-6.255	-6.160	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
436 T-1	LOS POSITAS 230/60kV #4 XFMR BANK	35204	ZONDWD	60	1.004	1.003	0.941	0.941	-6.255	-6.160	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
436 T-1	LOS POSITAS 230/60kV #4 XFMR BANK	35218	FLOWIND1	60	1.004	1.003	0.941	0.941	-6.255	-6.160	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
436 T-1	LOS POSITAS 230/60kV #4 XFMR BANK	35220	LPOSTAS	60	1.004	1.004	0.942	0.942	-6.244	-6.150	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
436 T-1	LOS POSITAS 230/60kV #4 XFMR BANK	35210	VASCJCT.	60	1.003	1.003	0.941	0.941	-6.259	-6.165	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
436 T-1	LOS POSITAS 230/60kV #4 XFMR BANK	35208	USWP-FRK	60	1.004	1.003	0.941	0.941	-6.255	-6.160	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
514 N-2	EI CERETO - SOBRANTE 115kV #1 & #2 LINES	32766	EL CRRTO	115	0.997	0.997	0.942	0.943	-5.452	-5.446	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
533 N-2	RAVENSWOOD - BAIR #1 & #2 115kV LINES	33313	BAIR	115	1.021	1.020	0.968	0.967	-5.213	-5.226	DEVIATION LT -4 PCT	DEVIATION LT -4 PCT
538 N-2	NEWARK - MILPITAS&NEWARK - DIXON LANDING 115kV LINES	35600	DIXON LD	115	1.024	1.023	0.948	0.947	-7.439	-7.438	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
538 N-2	NEWARK - MILPITAS&NEWARK - DIXON LANDING 115kV LINES	35630	MABURY	115	1.015	1.014	0.956	0.955	-5.813	-5.821	DEVIATION LT -4 PCT	DEVIATION LT -4 PCT
538 N-2	NEWARK - MILPITAS&NEWARK - DIXON LANDING 115kV LINES	35626	MCKEE	115	1.016	1.015	0.962	0.962	-5.246	-5.255	DEVIATION LT -4 PCT	DEVIATION LT -4 PCT
538 N-2	NEWARK - MILPITAS&NEWARK - DIXON LANDING 115kV LINES	35629	MABURY J	115	1.017	1.016	0.958	0.957	-5.791	-5.800	DEVIATION LT -4 PCT	DEVIATION LT -4 PCT
546 N-2	METCALF E - SWIFT&METCALF E - PIERCY 115kV LINES	35622	SWIFT	115	1.021	1.020	0.969	0.968	-5.060	-5.103	DEVIATION LT -4 PCT	DEVIATION LT -4 PCT
546 N-2	METCALF E - SWIFT&METCALF E - PIERCY 115kV LINES	35626	MCKEE	115	1.016	1.015	0.961	0.960	-5.418	-5.453	DEVIATION LT -4 PCT	DEVIATION LT -4 PCT
546 N-2	METCALF E - SWIFT&METCALF E - PIERCY 115kV LINES	35656	PIERCY	115	1.030	1.030	0.953	0.952	-7.461	-7.503	DEVIATION LT -4 PCT	DEVIATION LT -4 PCT
555 N-2	MORAGA - OAKLAND J & MORAGA - SAN LEANDRO 115kV #3 LINES	38024	JENNY	115	0.972	0.973	0.923	0.923	-5.089	-5.081	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
555 N-2	MORAGA - OAKLAND J & MORAGA - SAN LEANDRO 115kV #3 LINES	32800	OWNBRKWW	115	0.971	0.971	0.922	0.922	-5.080	-5.072	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
555 N-2	MORAGA - OAKLAND J & MORAGA - SAN LEANDRO 115kV #3 LINES	32792	STATIN J	115	0.972	0.972	0.923	0.923	-5.070	-5.063	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
555 N-2	MORAGA - OAKLAND J & MORAGA - SAN LEANDRO 115kV #3 LINES	32798	OWENSTAP	115	0.972	0.972	0.923	0.923	-5.071	-5.064	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU	DEVIATION LT -4 PCT, VOLTAGE LT 0.9500 PU
576 G-1	WILLOW PASS PLANT	30050	LOS BANOS	500	8888	1.074	8888	1.077	8888	0.243	*** CHECK DATA ***	HIGH NORMAL VOLTAGE GT 1.0500 PU
576 G-1	WILLOW PASS PLANT	34855	POLPASPP	70	8888	1.056	8888	1.059	8888	0.282	*** CHECK DATA ***	HIGH NORMAL VOLTAGE GT 1.0500 PU
576 G-1	WILLOW PASS PLANT	30057	DIABLO	500	8888	1.070	8888	1.071	8888	0.168	*** CHECK DATA ***	HIGH NORMAL VOLTAGE GT 1.0500 PU
576 G-1	WILLOW PASS PLANT	30060	MIDWAY	500	8888	1.076	8888	1.081	8888	0.422	*** CHECK DATA ***	HIGH NORMAL VOLTAGE GT 1.0500 PU
576 G-1	WILLOW PASS PLANT	34853	BLUSTNPP	70	8888	1.064	8888	1.067	8888	0.277	*** CHECK DATA ***	HIGH NORMAL VOLTAGE GT 1.0500 PU
576 G-1	WILLOW PASS PLANT	34717	DEZXEL	115	8888	1.060	8888	1.061	8888	0.162	*** CHECK DATA ***	HIGH NORMAL VOLTAGE GT 1.0500 PU
576 G-1	WILLOW PASS PLANT	34851	DEVLNPP	70	8888	1.070	8888	1.073	8888	0.275	*** CHECK DATA ***	HIGH NORMAL VOLTAGE GT 1.0500 PU
576 G-1	WILLOW PASS PLANT	30055	GATES	500	8888	1.089	8888	1.092	8888	0.291	*** CHECK DATA ***	HIGH NORMAL VOLTAGE GT 1.0500 PU
576 G-1	WILLOW PASS PLANT	34282	ONLL PMP	69	8888	1.059	8888	1.061	8888	0.175	*** CHECK DATA ***	HIGH NORMAL VOLTAGE GT 1.0500 PU

APPENDIX 6 – Detailed PG&E (Area 30) Power-flow Case Load Information

BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD	BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD
30000	PTSB 7	20	ss	1	17.14	8.78	34126	CORSGOLD	115	1	1	2.01	0.29
30111	LOGAN CR	230	1	1	18.67	0.84	34126	CORSGOLD	115	2	1	23.72	3.38
30111	LOGAN CR	230	SL	1	17.36	8.89	34130	LIVNGSTN	115	3	1	22.16	3.16
30430	FULTON	230	5	1	31.22	4.45	34132	GALLO	115	1	1	12.12	10.36
30430	FULTON	230	6	1	36.78	5.24	34134	WILSON A	115	3	1	16.7	2.38
30438	C&H	230	1	1	3.32	0.76	34138	EL CAPTN	115	1	1	17.41	2.48
30464	EXXON_BH	12.47	SG	1	47.3	30.55	34138	EL CAPTN	115	2	1	23.21	3.31
30465	BAHIA	230	1	1	30.11	4.29	34138	EL CAPTN	115	3	1	29.78	4.24
30465	BAHIA	230	2	1	19.06	2.72	34140	CRESSEY	115	1	1	17.1	2.44
30467	PARKWAY	230	1	1	32.48	4.63	34144	MERCED	115	1	1	33.43	4.76
30472	PEABODY	230	1	1	46.68	2.09	34144	MERCED	115	3	1	17.45	2.49
30472	PEABODY	230	2	1	58.12	2.6	34148	CHENY	115	1	1	11.79	1.68
30472	PEABODY	230	3	1	38	1.7	34150	NEWHALL	115	2	1	7.65	1.09
30505	WEBER	230	5	1	40.79	1.83	34150	NEWHALL	115	3	1	9.51	1.36
30523	CC SUB	230	8	1	71.78	14.58	34154	DAIRYLND	115	1	1	23	3.28
30523	CC SUB	230	9	1	77.62	15.76	34156	MENDOTA	115	1	1	22.03	3.14
30528	DEC PTSG	230	S1	1	3.36	0.77	34160	HAMMONDS	115	1	1	8.99	1.28
30528	DEC PTSG	230	S2	1	3.36	0.77	34163	LUIS_#3	115	1	1	2	0.47
30530	CAYETANO	230	3	1	21.57	4.92	34164	DFS	115	1	1	1.37	1.06
30535	TIDEWATR	230	1	1	72.24	16.46	34165	LUIS_#5	115	1	1	2.3	0.55
30535	TIDEWATR	230	2	1	59.79	13.63	34166	OXFORD	115	1	1	3.8	1.73
30536	TESORO	230	1	1	9.01	5.35	34168	EL NIDO	115	1	1	11.13	1.59
30537	NDUBLIN	230	1	1	18.81	4.29	34168	EL NIDO	115	2	1	13.33	1.9
30545	ROSSMOOR	230	1	1	36.95	8.42	34170	WESIX	70	1	1	1.8	0.43
30545	ROSSMOOR	230	2	1	32.85	7.49	34172	WESTLAND	70	1	1	3.2	0.76
30554	CASTROVL	230	1	1	38.34	8.74	34179	MADERA_G	13.8	SG	1	3.6	0.85
30554	CASTROVL	230	2	1	34.68	7.9	34179	MADERA_G	13.8	ss	1	3.6	0.85
30555	SANRAMON	230	3	1	84.72	19.31	34182	WSTLD1RA	115	1	1	3.8	0.9
30555	SANRAMON	230	4	1	79.28	18.06	34200	ORO LOMA	70	1	1	7.7	1.1
30555	SANRAMON	230	5	1	55.97	12.75	34204	LIVNGSTN	70	2	1	4.96	0.71
30555	SANRAMON	230	6	1	67.91	15.47	34206	CANAL	70	1	1	27.77	3.96
30556	CV BART	230	1	1	3.87	0.79	34206	CANAL	70	2	1	28.41	4.05
30561	TASSAJAR	230	1	1	53.13	12.11	34208	CHEVPIPE	70	1	1	3.7	2.49
30561	TASSAJAR	230	2	1	82.91	18.9	34210	SNTA NLA	70	1	1	6.13	0.87
30563	RESEARCH	230	1	1	37.05	8.44	34210	SNTA NLA	70	2	1	8.63	1.23
30565	BRENTWOD	230	1	1	41.07	8.34	34216	SNTA RTA	70	1	1	6.71	0.96
30565	BRENTWOD	230	2	1	38.95	7.91	34218	DOS PALS	70	1	1	9.2	1.31
30565	BRENTWOD	230	3	1	42.75	8.68	34220	ORTIGA	70	1	1	6.25	0.89
30567	LONETREE	230	1	1	23.91	5.44	34224	ARBURUA	70	1	1	3.76	1.82
30567	LONETREE	230	2	1	23.91	5.44	34228	MARIPOS2	70	1	1	8.14	1.16
30567	LONETREE	230	3	1	23.91	5.44	34228	MARIPOS2	70	2	1	8.47	1.21
30569	KELSO	230	1	1	12.77	7.91	34230	MRCDFLLS	70	2	1	7.89	1.12
30585	LS PSTAS	230	1	1	22.2	5.06	34237	CANANDGA	70	1	1	7.56	5.67
30585	LS PSTAS	230	2	1	51.4	11.71	34238	BONITA	70	1	1	12.92	1.84
30585	LS PSTAS	230	3	1	33.99	7.75	34240	GLASS	70	1	1	12.05	6.5
30622	EIGHT MI	230	3	1	49.39	2.21	34242	BER VLLY	70	1	1	5.35	0.76
30635	NWK DIST	230	21	1	54.28	12.37	34246	SAXONCRK	70	1	1	0.79	0.57
30635	NWK DIST	230	22	1	48.04	10.95	34248	INDN FLT	70	1	1	1.79	0.25
30685	EMBRCDRD	230	1	1	64.01	11.21	34250	YOSEMITE	70	1	1	2.9	0
30685	EMBRCDRD	230	2	1	71.45	12.52	34252	MADERA	70	1	1	16.17	2.3
30690	EMBRCDRE	230	3	1	71.45	12.52	34252	MADERA	70	2	1	20.81	2.97

BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD	BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD
30690	EMBRCDRE	230	5	1	64.01	11.21	34260	SJNO2	70	2	1	2.92	0.42
30711	S.L.A.C.	230	1	1	58	11.78	34261	SJNO3	70	2	1	6.3	0.9
30720	SARATOGA	230	1	1	43.58	9.93	34262	CASSIDY	70	1	1	12.86	1.83
30720	SARATOGA	230	2	1	50.15	11.43	34264	EL PECO	70	1	1	8.81	1.26
30720	SARATOGA	230	3	1	40.33	9.19	34264	EL PECO	70	2	1	6.52	0.93
30730	HICKS	230	1	1	36.06	8.22	34266	FIREBAGH	70	1	1	10	1.43
30730	HICKS	230	2	1	41.64	9.49	34267	TOMATAK	70	1	1	7.48	5.8
30730	HICKS	230	3	1	50.98	11.62	34272	WRGHT PP	70	1	1	8.63	1.23
30730	HICKS	230	4	1	36.06	8.22	34278	PCHCO PP	70	1	1	18	4.1
30733	VASONA	230	1	1	39.49	9	34282	ONLL PMP	69	1	1	6	1.2
30733	VASONA	230	2	1	19.54	4.45	34305	CHWCHLA2	13.8	ss	1	2	1.11
30795	STOREY 2	230	2	1	30.46	4.34	34326	P0435BS1	13.8	SG	1	4.5	2.49
30796	STOREY 1	230	1	1	34.03	4.85	34327	P0435BS2	13.8	SG	1	4.5	2.49
30805	BORDEN	230	2	1	22.04	3.14	34330	ELNIDO	13.8	ss	1	2	1.11
30825	MCMULLN1	230	1	1	17.82	2.54	34340	N.FORK E	9.11	1	1	1.09	0.16
30841	FIGRDN 1	230	1	1	64.97	9.26	34344	KERCKHOF	6.6	4	1	2.88	0.41
30846	FIGRDN 2	230	1	1	46.5	6.63	34350	KAMM	115	1	1	3.8	1.73
30850	ASHLAN	230	1	1	56.71	8.08	34352	CANTUA	115	1	1	14.64	2.09
30850	ASHLAN	230	2	1	60.88	8.68	34354	SCHINDLR	115	1	1	8.48	1.72
30850	ASHLAN	230	3	1	57.56	8.2	34361	AIRWAYS	115	1	1	31.75	4.52
30905	TEMPLETN	230	2	1	47.89	6.82	34361	AIRWAYS	115	2	1	7.62	1.09
30905	TEMPLETN	230	3	1	47.48	6.77	34362	CLOVIS-1	115	1	1	45.48	6.48
30925	DIABLOCN	230	1	1	10	8	34362	CLOVIS-1	115	2	1	44.75	6.38
30940	STCKDLEA	230	2	1	53.75	7.66	34364	CLOVIS-2	115	2	1	34.59	7.03
30940	STCKDLEA	230	6	1	44.93	6.4	34364	CLOVIS-2	115	3	1	39.64	5.65
30941	STCKDLEB	230	3	1	48.15	6.86	34366	SANGER	115	1	1	21.42	3.05
30947	TEX_SUN	230	ss	1	10.36	5.02	34366	SANGER	115	3	1	17.81	2.54
30950	BKRSFLDA	230	2	1	49.36	7.03	34368	LASPALMS	115	1	1	15.04	2.14
30951	BKRSFLDB	230	2	1	43.19	6.16	34370	MC CALL	115	4	1	21.25	3.03
30973	SUNST	230	SG	1	11.5	4.17	34370	MC CALL	115	5	1	26.15	3.73
30993	SUMMIT	60	1	1	1.53	0.07	34371	SCWAX	115	1	1	2.66	1.51
31010	LOW GAP1	115	1	1	0.27	0.04	34372	MALAGA	115	1	1	22.2	3.16
31011	FRSTGLEN	115	1	1	0.01	0	34372	MALAGA	115	2	1	20	2.85
31017	BRDGVL T	12	1	1	0.55	0.08	34372	MALAGA	115	3	1	20.33	2.9
31050	ORICK	60	1	1	1.6	0.23	34374	RANCHRS	115	1	1	8.04	1.15
31051	BIG_LAGN	60	1	1	0.42	0.06	34376	PPG	115	1	1	2.07	1.28
31052	TRINIDAD	60	1	1	2.43	0.35	34377	AIRPROD	115	1	1	4.91	1.94
31057	LP_FLKBD	60	1	1	2.5	1.55	34378	GATES	115	3	1	16.96	2.42
31058	JANS CRK	60	1	1	6.77	0.97	34380	REEDLEY	115	3	1	23.16	3.3
31058	JANS CRK	60	2	1	7.6	1.08	34382	WAHTOKE	115	2	1	26.87	3.83
31062	BLUE LKE	60	3	1	2.84	0.41	34382	WAHTOKE	115	3	1	18.45	2.63
31068	SIMPSON	60	1	1	5.6	3.47	34387	SUNMAID	115	1	1	3.5	3.37
31072	ARCATA	60	1	1	14.45	2.06	34388	RAINBW	115	1	1	14.31	2.04
31074	FAIRHAVN	60	1	1	1.73	0.25	34390	DANISHCM	115	1	1	4.09	3.5
31075	SIERA_PC	60	1	1	1.25	1.1	34392	QUEBEC	115	1	1	11.95	8.34
31082	HARRIS	60	1	1	5.96	0.85	34402	CAL AVE	115	1	1	27.47	3.92
31082	HARRIS	60	2	1	5.45	0.78	34402	CAL AVE	115	2	1	25.44	3.63
31086	EUREKA	60	1	1	10.32	1.47	34402	CAL AVE	115	3	1	21.46	3.06
31087	EUREKA A	60	1	1	7.63	1.09	34404	WST FRSO	115	1	1	33	4.7
31090	HMBLT BY	60	11	1	4.86	0.69	34404	WST FRSO	115	2	1	34.31	4.89
31090	HMBLT BY	60	ss	1	2	1.02	34404	WST FRSO	115	3	1	15.84	2.26

BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD	BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD
31092	MPLE CRK	60	1	1	0.51	0.07	34408	BARTON	115	1	1	37.85	5.39
31095	HYAMPOM	60	1	1	0.3	0.08	34408	BARTON	115	2	1	32.46	4.62
31096	WILLWCRK	60	1	1	3.77	0.54	34408	BARTON	115	3	1	23.55	3.36
31098	HOOPA	60	1	1	3.17	0.45	34410	MANCHSTR	115	1	1	22.37	3.19
31100	EEL RIVR	60	1	1	7.93	1.13	34410	MANCHSTR	115	2	1	23.9	3.41
31102	NEWBURG	60	1	1	3.02	0.43	34410	MANCHSTR	115	3	1	32.58	4.64
31102	NEWBURG	60	2	1	4.31	0.62	34413	PNEDLE	115	1	1	25.02	3.57
31103	PCLUMBER	60	1	1	0.3	0.22	34413	PNEDLE	115	2	1	27.22	3.88
31104	CARLOTTA	60	1	1	1.64	0.23	34413	PNEDLE	115	3	1	35.78	5.1
31106	RIO DELL	60	1	1	3.36	0.48	34414	WOODWARD	115	1	1	37.41	5.33
31112	FRUITLND	60	1	1	2.46	0.35	34414	WOODWARD	115	2	1	46.65	6.65
31114	FRT SWRD	60	1	1	0.4	0.06	34414	WOODWARD	115	3	1	39.04	5.56
31116	GRBRVLE	60	1	1	10.23	1.46	34416	BULLARD	115	1	1	39.02	5.56
31150	FAIRHAVN	13.8	SG	1	0.6	0.37	34416	BULLARD	115	2	1	39.72	5.66
31152	PAC.LUMB	13.8	SG	1	2.53	1.57	34416	BULLARD	115	3	1	37.16	5.29
31158	LP SAMOA	12.47	SG	1	11.45	7.1	34418	KINGSBRG	115	3	1	28.86	4.11
31180	HUMB_G1	13.8	ss	1	1.46	0.81	34420	CORCORAN	115	3	1	21.29	3.03
31181	HUMB_G2	13.8	ss	1	1.1	0.61	34420	CORCORAN	115	4	1	11.5	1.64
31182	HUMB_G3	13.8	ss	1	1.1	0.61	34422	CHLDHOSP	115	1	1	3.68	1.68
31202	CALPELLA	115	1	1	13.33	1.9	34424	GRDN GLS	115	1	1	3.1	1.02
31204	UKIAH	115	1	1	10.62	1.51	34426	ALPAUGH	115	2	1	8.07	1.15
31204	UKIAH	115	2	1	6.08	0.87	34428	CONTADNA	115	1	1	7.63	5.72
31208	CLOVRDL	115	1	1	18.1	2.58	34429	GWF_HEP	115	1	1	1.29	0.97
31216	LUCERNE	115	1	1	7.74	1.1	34429	GWF_HEP	115	ss	1	3	0.68
31216	LUCERNE	115	2	1	5.16	0.73	34432	WESTLND	115	16	1	0.94	0.23
31222	REDBUD	115	1	1	7.06	1.01	34432	WESTLND	115	18	1	1.21	0.32
31222	REDBUD	115	3	1	9.45	1.35	34454	RIVERROC	70	1	1	2.26	2.05
31226	HGHLAND	115	1	1	14.13	2.01	34458	HARDWICK	70	1	1	11.44	1.63
31226	HGHLAND	115	2	1	8.31	1.18	34460	GUERNSEY	70	1	1	9.16	1.31
31230	HOMEPROC	115	1	1	0.8	0.16	34464	COPPRMNE	70	1	1	20.48	2.92
31238	MONROE1	115	1	1	23.8	3.39	34466	BIOLA	70	1	1	19.33	2.75
31239	MONROE2	115	2	1	27.94	3.98	34468	BOWLES	70	1	1	16.02	2.28
31239	MONROE2	115	3	1	18.01	2.57	34470	GIFFEN	70	1	1	13.82	1.97
31240	SNTA RSA	115	1	1	36.2	5.16	34472	SAN JOQN	70	1	1	5.64	0.8
31240	SNTA RSA	115	2	1	31.79	4.53	34472	SAN JOQN	70	2	1	3.44	0.49
31240	SNTA RSA	115	3	1	28.48	4.06	34478	TVY VLLY	70	1	1	9.08	1.29
31244	STONY PT	115	1	1	6.71	3.25	34482	OLDKERN	70	1	1	16.63	2.37
31246	BELLVUE	115	1	1	12.56	1.79	34482	OLDKERN	70	3	1	6.71	0.96
31246	BELLVUE	115	2	1	15.64	2.23	34484	KERMAN	70	1	1	17.24	2.46
31246	BELLVUE	115	3	1	22.02	3.14	34484	KERMAN	70	2	1	10.45	1.49
31248	PENNGRVE	115	1	1	7.63	1.09	34485	FRESNOWW	12.47	1	1	7.91	0
31250	RINCON	115	1	1	19.57	2.79	34485	FRESNOWW	12.47	SG	1	4.92	0
31250	RINCON	115	2	1	17.92	2.55	34490	PARLIER	70	1	1	17.93	2.55
31254	CORONA	115	1	1	24.88	3.55	34492	REEDLEY	70	1	1	15.42	2.2
31255	LAKEVLE	115	4	1	19.38	2.76	34493	AUBERRY	70	1	1	5.4	0.77
31258	SONOMA	115	1	1	23.46	3.34	34493	AUBERRY	70	2	1	6.36	0.91
31258	SONOMA	115	2	1	21.85	3.11	34494	DUNLAP	70	1	1	3.99	0.57
31300	MENDOCNO	60	2	1	4.73	0.67	34495	SANDCRK	70	1	1	2.82	0.4
31302	PTTR VLY	60	2	1	0.58	0.08	34498	STONCRRL	70	2	1	2.93	0.42
31302	PTTR VLY	60	5	1	1.93	0.27	34498	STONCRRL	70	3	1	2.32	0.33
31306	WILLITS	60	1	1	15.82	2.25	34500	DINUBA	70	1	1	8.25	1.18

BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD	BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD
31308	LYTNVLE	60	1	1	5.36	0.76	34500	DINUBA	70	2	1	17.02	2.43
31309	FT_BRGD1	12.47	1	1	11.34	1.62	34502	OROSI	70	1	1	7.41	1.06
31310	COVELO6	60	1	1	2.46	0.35	34502	OROSI	70	2	1	6.57	0.94
31311	FT_BRGD2	12.47	2	1	3.84	0.55	34508	CAMDEN	70	1	1	6.11	0.87
31315	BIG_RVR_	12.47	1	1	5.06	0.72	34508	CAMDEN	70	2	1	9.7	1.38
31317	ELK_D	12.47	1	1	2.93	0.42	34512	CARUTHRS	70	1	1	17.2	2.45
31319	PNT_AREN	12.47	1	1	2.37	0.34	34514	MUSLSLGH	70	1	1	22	13.63
31320	GARCIA	60	1	1	0.1	0.02	34516	LEPRINO	70	1	1	6.56	4.07
31321	PHILO_D	12.47	1	1	4.49	0.64	34518	LEMOORE	70	1	1	16.78	2.39
31330	UPPR_LKE	60	1	1	3.49	0.5	34518	LEMOORE	70	2	1	29.19	4.16
31332	HARTLEY	60	1	1	6.61	0.94	34521	LEPRNOFD	115	1	1	16.7	9.46
31332	HARTLEY	60	2	1	3.95	0.56	34524	CANDLEWK	70	1	1	0	0
31334	CLER_LKE	60	1	1	8.17	1.16	34531	JGBSWLL	70	1	1	4.5	2.79
31334	CLER_LKE	60	2	1	10.74	1.53	34532	ARMSTRNG	70	1	1	0	0
31335	GRANITE	60	1	1	3.5	2.17	34534	RESERVE	70	1	1	1.76	0.25
31336	HPLND JT	60	1	1	5.3	0.76	34536	ANGIOLA	70	1	1	11.21	1.6
31338	KONOC16	60	1	1	7.07	1.01	34538	BOSWELL	70	1	1	1.99	1.28
31338	KONOC16	60	2	1	8.08	1.15	34539	GWF_GT1	13.8	ss	1	1.1	0.71
31342	MIDDLTWN	60	1	1	5.88	0.84	34540	HENRITTA	70	1	1	7.14	1.02
31342	MIDDLTWN	60	2	1	12.41	1.77	34541	GWF_GT2	13.8	ss	1	1.1	0.71
31346	GUALALA	60	1	1	3.31	0.47	34542	JCBSCRNR	70	1	1	10.5	1.5
31346	GUALALA	60	2	1	1.6	0.23	34542	JCBSCRNR	70	2	1	8.31	1.18
31348	ANNAPOLS	60	1	1	0.29	0.04	34544	TLRE_LKE	70	1	1	5.97	0.85
31350	FORT RSS	60	1	1	0.93	0.13	34546	AVENAL	70	1	1	6.78	0.97
31354	SLMN CRK	60	1	1	3.65	0.52	34548	KETTLEMN	70	1	1	5.56	0.79
31356	MONTE RO	60	1	1	5.52	0.79	34550	CHEVPLIN	70	1	1	1.81	1.31
31356	MONTE RO	60	2	1	4.31	0.61	34553	WHD_GAT2	13.8	SG	1	0.67	0
31357	WOHLER	60	1	1	4.53	1.93	34558	HURON	70	1	1	13.36	1.9
31360	MIRABEL	60	1	1	11.3	1.61	34560	CALFLAX	70	1	1	12.85	1.83
31364	MOLINO	60	1	1	8.12	1.16	34562	SCHLNDLR	70	1	1	18.75	2.67
31364	MOLINO	60	2	1	20.87	2.97	34564	STROUD	70	1	1	11.47	1.63
31368	GYSRVLE	60	1	1	5.63	0.8	34566	PLSNTVLY	70	1	1	13.7	3.43
31368	GYSRVLE	60	2	1	8.75	1.25	34570	COLNGA 2	70	1	1	7.19	1.02
31380	FTCH MTN	60	1	1	10.26	1.46	34572	TORNADO	70	1	1	1.55	1.28
31380	FTCH MTN	60	2	1	9.39	1.34	34574	COLNGA 1	70	1	1	8.15	1.16
31383	LAGUNA	60	1	1	5.93	1.49	34574	COLNGA 1	70	2	1	8.72	1.24
31384	COTATI	60	1	1	7.63	1.09	34576	KNGLOBUS	70	1	1	29.21	4.16
31384	COTATI	60	2	1	6.95	0.99	34578	JACALITO	70	1	1	4.31	2.9
31388	PETLMA C	60	1	1	0	0	34580	BDGR_HLL	70	1	1	8	1.91
31388	PETLMA C	60	2	1	15.27	2.18	34580	BDGR_HLL	70	2	1	2.9	0.71
31388	PETLMA C	60	3	1	10.71	1.53	34584	DEVLS DN	70	1	1	2.02	0.29
31388	PETLMA C	60	4	1	15.53	2.21	34608	AGRICO	13.8	SG	1	0.8	0
31390	PETLMA A	60	1	1	2.91	0.41	34609	WOODCHUK	70	1	1	1.39	0
31396	DUNBAR	60	1	1	14.09	2.01	34624	BALCH 1	13.2	1	1	0.3	0
31396	DUNBAR	60	2	1	10.88	1.55	34642	KINGSBUR	9.11	SG	1	0.32	0
31421	BOTTLERK	13.8	ss	1	3.2	2.82	34646	SANGERCO	9.11	SG	1	1.09	0
31450	WILDWOOD	115	1	1	0.45	0.02	34648	DINUBA E	13.8	1	1	0.4	0.34
31454	PANRAMA	115	1	1	14.26	0.64	34648	DINUBA E	13.8	ss	1	0.4	0.26
31459	OREGNTRL	115	2	1	15.86	0.71	34650	GWF-PWR.	13.8	SG	1	1.22	0
31464	COTWDPGE	115	6	1	23.89	1.07	34652	CHV.COAL	9.11	S1	1	5.2	2.52
31465	WHEELBR1	9.1	SG	1	4.03	0.92	34652	CHV.COAL	9.11	SG	1	0.9	0.44

BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD
31467	JESSUP	115	1	1	24.1	1.08
31471	SPI_AND1	9.1	1	1	5.42	1.24
31475	KANAKAJT	115	KK	1	1.04	0.05
31480	WYANDTTE	115	1	1	9.52	0.43
31480	WYANDTTE	115	2	1	17.91	0.8
31480	WYANDTTE	115	3	1	27.43	1.23
31484	HONCUT	115	1	1	14.1	0.63
31496	NORD 1	115	1	1	16.1	0.72
31496	NORD 1	115	2	1	16.96	0.76
31498	SYCAMORE	115	1	1	27.08	1.22
31498	SYCAMORE	115	2	1	18.26	0.82
31498	SYCAMORE	115	3	1	27.43	1.23
31499	NOTRDAME	115	1	1	18	0.81
31500	BUTTE	115	2	1	15.06	0.68
31500	BUTTE	115	3	1	17.99	0.81
31502	CHICO B	115	1	1	15.4	0.69
31502	CHICO B	115	2	1	13.76	0.62
31514	PARADSE	115	1	1	18.03	0.81
31514	PARADSE	115	2	1	26.76	1.2
31550	MC ARTHR	60	1	1	6.12	0.27
31553	BIG BAR	60	1	1	0.23	0.08
31554	GROUSCRK	60	1	1	0.01	0
31557	MILSTSTA	60	1	1	7.78	2.15
31558	DGLS CTY	60	1	1	1.44	0.62
31560	HAYFORK	60	1	1	2.24	1.06
31562	LEWISTON	60	1	1	2.9	1.38
31564	FRNCHGLH	60	1	1	2.55	0.11
31566	KESWICK	60	1	1	2.91	0.13
31572	GIRVAN	60	1	1	11.25	0.5
31574	ANDERSON	60	1	1	16.67	0.74
31576	WNTU PMS	60	1	1	2.4	0.55
31581	OREGNTRL	60	1	1	4.42	0.2
31582	STLLWATR	60	1	1	9.44	0.43
31584	MTN GATE	60	1	1	12.37	4.89
31585	ANTLER	60	1	1	3.87	0.18
31588	WHITMORE	60	1	1	1.09	0.05
31590	CEDR CRK	60	1	1	1.46	0.07
31592	DESCHUTS	60	1	1	25.93	1.16
31594	VOLTA	60	2	1	6.94	0.31
31599	CLMN FSH	60	1	1	5	1.14
31608	RED BLFF	60	1	1	9.83	0.44
31608	RED BLFF	60	2	1	9.65	0.43
31608	RED BLFF	60	3	1	8.59	0.39
31609	CR CANAL	60	CC	1	3	0.68
31610	TYLER	60	1	1	8.5	0.38
31610	TYLER	60	2	1	7.52	0.33
31611	RASN JNT	60	1	1	10.45	0.47
31611	RASN JNT	60	PK	1	3.68	1.99
31612	DIRYVLL	60	1	1	3.28	0.14
31615	LP FB SP	60	1	1	1.38	1.53
31615	LP FB SP	60	3	1	3.46	3.53

BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD
34654	COLNGAGN	9.11	SG	1	0.7	0.34
34671	KRCDPCT1	13.8	ss	1	0.9	0.65
34672	KRCDPCT2	13.8	ss	1	0.9	0.65
34700	SMYRNA	115	1	1	2.91	0.59
34702	GOSE LKE	115	1	1	2.73	0.55
34702	GOSE LKE	115	2	1	0.78	0.16
34703	SMTRPCWS	115	1	1	13.15	7.89
34704	SEMITRPC	115	1	1	2.84	0.58
34705	WSCOPRSN	115	1	1	3.77	2.36
34706	WESTPARK	115	1	1	21.95	3.13
34706	WESTPARK	115	2	1	20.46	2.92
34706	WESTPARK	115	3	1	20.92	2.98
34710	CHARKA	115	1	1	1.34	0.27
34712	FAMOSO	115	1	1	5.79	1.18
34714	LERDO	115	1	1	11.07	1.58
34714	LERDO	115	2	1	11.33	1.61
34718	KERN OIL	115	1	1	20.18	2.87
34718	KERN OIL	115	2	1	18.18	2.59
34722	RASMUSEN	115	1	1	12.96	0.82
34729	CALWATER	115	1	1	7.47	1.06
34732	COLUMBUS	115	1	1	10.65	1.52
34732	COLUMBUS	115	2	1	10.2	1.45
34732	COLUMBUS	115	3	1	12.67	1.8
34736	MAGUNDEN	115	1	1	24.36	3.47
34736	MAGUNDEN	115	3	1	24.55	3.5
34738	BOLTHSE	115	1	1	9.99	8
34739	GRIMWAY	115	1	1	5.42	3.53
34740	STOCKDLE	115	1	1	21.07	3
34744	GODN_BER	115	1	1	0.38	0.27
34746	GANSO	115	1	1	2.24	0.45
34750	TUPMAN	115	1	1	11.75	1.67
34752	KERN PWR	115	6	1	36.91	5.26
34752	KERN PWR	115	7	1	39.98	5.7
34754	TEVIS	115	1	1	29.88	4.26
34757	TEVIS2	115	1	1	29.45	4.2
34758	LAMONT	115	1	1	16.14	2.3
34758	LAMONT	115	2	1	13.36	1.9
34760	RIO BRVO	115	2	1	8.31	1.18
34760	RIO BRVO	115	3	1	7.24	1.03
34762	RENFRO	115	1	1	28.58	4.07
34766	SHAFTER	115	1	1	11.83	1.69
34767	RENFRO2	115	1	1	25.36	3.61
34774	MIDWAY	115	7	1	5.22	0.74
34774	MIDWAY	115	8	1	2.26	0.32
34776	TAFT	115	1	1	4.88	0.99
34776	TAFT	115	3	1	8.27	1.18
34776	TAFT	115	4	1	4.93	0.7
34778	FELLOWS	115	1	1	4.45	0.63
34778	FELLOWS	115	2	1	2.12	0.3
34784	CAWELO C	115	1	1	3	0
34788	NORCO	115	1	1	3.72	0.53

BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD	BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD
31616	GERBER	60	1	1	5.73	0.26	34790	COLESLEV	115	1	1	1.35	1.44
31618	LS MLNSJ	60	1	1	3.68	0.17	34792	KERNRDGE	115	2	1	59.6	0
31620	VINA	60	1	1	1.97	0.09	34792	KERNRDGE	115	SG	1	59.6	12.1
31626	CORNING	60	1	1	2.53	0.11	34794	TEMBLOR	115	1	1	6.63	0.94
31626	CORNING	60	2	1	15.57	0.7	34796	CARRIZO	115	1	1	0.28	0.04
31626	CORNING	60	3	1	11.81	0.53	34798	KERNWATR	115	1	1	1.27	0.75
31628	PIT 1	60	1	1	2.77	0.12	34800	MORGAN	115	1	1	2.07	3.15
31630	HAT CRK1	60	1	1	1.26	0.05	34804	BELRIDGE	115	1	1	5.4	1.44
31636	BURNEY	60	1	1	2.9	0.13	34806	ARVIN_ED	115	1	1	25.5	6.39
31636	BURNEY	60	2	1	1.61	0.07	34808	ROSEDAL	115	1	1	24.45	3.48
31640	TRES VIS	60	1	1	7.23	0.33	34809	TX_ROSDL	115	1	1	26.42	6.94
31642	PEACHTON	60	1	1	5.89	0.27	34810	POSO MT	115	1	1	11.77	1.68
31642	PEACHTON	60	2	1	1.07	0.05	34811	RIOBRVTM	115	1	1	5.08	4.2
31650	OROVILLE	60	1	1	1.47	0.07	34812	VEDDER	115	1	1	1.23	0.29
31650	OROVILLE	60	2	1	12.11	0.54	34815	WESTPLAT	115	1	1	5.65	4.48
31650	OROVILLE	60	3	1	7.44	0.33	34816	NAVY 35R	115	SG	1	110	71.27
31652	LSNA PCC	60	1	1	0.5	0.11	34850	BLACKWLL	70	1	1	3.01	0.43
31658	BANGOR	60	1	1	6.57	0.29	34851	DEVLDNPP	70	1	1	8.8	1.63
31660	DOBBINS	60	1	1	2.85	0.13	34852	CARNERAS	70	1	1	6.27	0.89
31662	CHALLNGE	60	1	1	2.25	0.1	34853	BLUSTNPP	70	1	1	8.8	1.63
31666	HATLOSCK	60	BG	1	0.13	0.03	34855	POLPASPP	70	1	1	8.8	1.63
31670	CHESTER	60	1	1	2.85	0.13	34858	MDWY_P_S	70	1	1	1.1	0.77
31672	HMLTN BR	60	1	1	3.83	0.18	34862	MARICOPA	70	1	1	4.29	0.61
31674	BIG MDWS	60	1	1	4.83	0.21	34864	GARDNER	70	1	1	1.29	0.8
31678	GRYS FLT	60	1	1	0.09	0.01	34865	BRY_PTLM	70	1	1	4.89	1.15
31680	GANSNER	60	1	1	2.91	0.13	34866	BSC_L_PLD	70	1	1	0.68	0.6
31682	SPANSHCK	60	CM	1	1.09	0.05	34868	COPUS	70	1	1	6.17	0.88
31684	EST QNCY	60	1	1	2.5	0.11	34872	LAKEVIEW	70	1	1	9.07	1.29
31692	DE SABLA	60	1	1	9.94	0.45	34874	WHEELER	70	1	1	6.82	0.97
31696	CNTRVLL	60	1	1	0.97	0.05	34876	TEJON	70	1	1	8.3	1.18
31704	CLARK RD	60	1	1	7.44	0.33	34880	SN BRNRD	70	1	1	4.44	0.63
31710	CHICO A	60	2	1	18.85	0.84	34888	ARVIN	70	1	1	6.4	0.91
31716	ESQUON	60	1	1	6.23	0.28	34890	WEEDPTCH	70	1	1	13.11	1.87
31724	ORLAND B	60	1	1	11.73	0.52	34900	EISEN	70	1	1	6.61	4.75
31724	ORLAND B	60	2	1	8.98	0.4	34904	OLD RIVR	70	1	1	7.05	1
31726	ELKCREEK	60	1	1	2.29	0.1	34904	OLD RIVR	70	2	1	8.53	1.22
31728	WILLOWS	60	1	1	11.58	0.52	34906	PANAMA	70	1	1	25.82	3.68
31730	CAPAY	60	1	1	7.43	0.33	34908	CARNATIO	70	1	1	6.33	4.66
31734	HAMILTON	60	1	1	5.43	0.24	34909	GRMWY_SM	70	1	1	5.42	2.55
31736	HEADGATE	60	1	1	3.3	0.75	34910	WELLFILD	70	1	1	1.49	0.21
31738	ANITA	60	1	1	6.32	0.28	34910	WELLFILD	70	2	1	3.34	0.48
31740	JACINTO	60	1	1	5.87	0.27	34911	FRUITVLE	70	1	1	13.65	1.94
31798	BRNYFRST	13.2	ss	1	3.92	0.89	34911	FRUITVLE	70	2	1	20.51	2.92
31800	SMPSN-AN	12.47	SG	1	0.88	0.2	34915	MOCO	70	1	1	9.42	8.26
31802	PIT 3	11.5	1	1	1.32	0.06	34919	TX_BV_HL	70	1	1	1.83	0
31804	PIT 5 U1	11.5	1	1	1.5	0.07	34920	ELK HLLS	70	1	1	2.14	0.3
31820	BCKS CRK	11	4	1	1.87	0.08	34928	CAWELO B	70	1	1	2	0.97
31874	SPI-BURN	9.11	SG	1	4.5	1.03	34930	MC FRLND	70	1	1	4.78	0.97
31880	SPI-HAYF	9.11	SG	0	1	0.2	34932	WASCO	70	1	1	7.5	1.52
31888	OROVILLE	9.11	SG	1	0.7	0.16	34935	CUYAMA2	70	2	1	5.81	0.83
31894	COLLINS	9.11	SG	1	3.91	0.89	34936	CUYAMA	70	1	1	8.49	1.21

BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD
31896	SPI-QUCY	9.11	SG	1	3.21	0.73
31923	CPVGT1	18	SG	1	5	2.77
31924	CPVGT2	18	SG	1	5	2.77
31925	CPVST1	18	SG	1	5	2.77
31951	CORT_D	115	3	1	7.23	0.32
31952	PUTH CRK	115	1	1	15.13	0.67
31954	AMERIGAS	115	1	1	6.68	1.36
31958	CORDELIA	115	2	1	15.87	0.71
31960	MOBILCHE	115	1	1	0.1	0
31963	KNIGHTLD	115	1	1	7.53	0.34
31970	WOODLD	115	1	1	46.26	2.07
31970	WOODLD	115	2	1	37.68	1.69
31970	WOODLD	115	3	1	29.9	1.34
31972	ZAMORA	115	1	1	9.34	0.42
31974	MADISON	115	1	1	7.4	0.33
31974	MADISON	115	2	1	4.79	0.22
31974	MADISON	115	3	1	13.5	0.61
31976	POST	115	1	1	1.28	0.18
31976	POST	115	1A	1	1.28	0.18
31986	W.SCRMNO	115	1	1	25.17	1.12
31986	W.SCRMNO	115	2	1	20.06	0.9
31986	W.SCRMNO	115	3	1	35.02	1.56
31988	DEEPWATR	115	2	1	20.9	0.93
31988	DEEPWATR	115	3	1	14.43	0.65
31989	BRKR SLG	115	1	1	1.75	0
31990	DAVIS	115	1	1	29.9	1.34
31990	DAVIS	115	2	1	32.18	1.44
31990	DAVIS	115	3	1	38.59	1.73
31992	HUNT	115	1	1	0.27	0.05
31994	GRAND IS	115	1	1	19.45	0.87
31994	GRAND IS	115	2	1	15.18	0.68
31995	HALE	115	1	1	2.36	1.4
31997	SCHMLBCH	115	1	1	12.42	8.35
31998	VACA-DIX	115	6	1	14.83	0.67
31998	VACA-DIX	115	7	1	23.5	1.05
31998	VACA-DIX	115	8	1	25.05	1.12
32000	VACAVLL1	115	1	1	27.49	1.23
32002	VACAVLL2	115	2	1	40.29	1.8
32002	VACAVLL2	115	3	1	39.56	1.77
32008	SUISUN	115	1	1	26.71	1.2
32008	SUISUN	115	2	1	29.01	1.3
32008	SUISUN	115	3	1	23.64	1.06
32010	JAMESON	115	1	1	35.07	1.57
32050	RICE	60	1	1	5.57	0.25
32050	RICE	60	2	1	1.82	0.08
32054	MAXWELL	60	1	1	5.42	0.24
32058	HARINTON	60	1	1	1	0.62
32060	ARBUCKLE	60	1	1	14.91	0.67
32062	DRAKE	60	1	1	1	0.62
32064	WILLIAMS	60	1	1	5.74	0.26
32064	WILLIAMS	60	2	1	9.47	0.42

BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD
34938	3EMIDIO	70	EQ	1	0.47	0.31
34938	3EMIDIO	70	MO	1	2.81	1.66
34938	3EMIDIO	70	PP	1	1.87	0.75
34939	VALPREDO	70	1	1	0.16	0.99
34940	ROSE	70	1	1	0.55	0.56
34941	PACI_PIP	70	1	1	2.91	0.85
34942	LST HLLS	70	1	1	3.4	1.14
34944	TECUYA	70	1	1	3.66	2.31
34947	CELERON	70	EX	1	2.43	0.78
34947	CELERON	70	PM	1	1.08	0.58
34948	GRAPEVNE	70	1	1	1.08	0.66
34952	LEBEC	70	1	1	2.22	1.25
34956	CASTAC	70	1	1	2.45	0
34958	KELLEY	70	1	1	3.33	1.75
34962	BRRNDA C	70	1	1	0.42	0.1
34964	BRRNDA A	70	1	1	7.95	0
34966	ANTELOPE	70	1	1	3.64	0.52
34968	TWISSLMN	70	1	1	3.33	0.47
34968	TWISSLMN	70	2	1	4.1	0.58
34971	NTPTRL	70	1	1	22.4	13.88
34972	CHEVLHLS	70	1	1	15.23	8.55
35023	DOUBLE C	13.8	SG	1	1.2	0
35024	DEXEL +	13.8	SG	1	0.32	0.08
35026	KERNFRNT	9.11	SG	1	0.68	0.33
35027	HISIERRA	13.8	SG	1	0.9	0
35029	BADGERCK	13.8	SG	1	0.48	0
35032	CHV-CYMR	9.11	SG	1	1.69	0.1
35036	MT POSO	13.8	ss	1	3.6	1.74
35038	CHLKCLF+	9.11	SG	1	0.43	0.07
35046	SEKR	9.11	SG	1	1.9	0.48
35048	FRITOLAY	9.11	SG	1	2.39	1.21
35050	SLR-TANN	9.11	SG	1	0.28	0.6
35052	CHEV.USA	9.11	SG	1	2.5	0.63
35056	TX-LOSTH	4.16	SG	1	0	0
35060	PSEMCKIT	9.11	SG	1	0.4	0.07
35062	DISCOVERY	13.8	SG	1	11.87	5.89
35070	LAPLM_G1	21	ss	1	4.46	0
35071	LAPLM_G2	21	ss	1	4.46	0
35072	LAPLM_G3	21	ss	1	4.46	0
35073	LAPLM_G4	21	ss	1	4.46	0
35076	ELKHIL1G	18	ss	1	3.45	1.68
35077	ELKHIL2G	18	ss	1	3.45	1.68
35101	SN LNDRO	115	1	1	26.9	6.13
35101	SN LNDRO	115	2	1	37.54	8.55
35101	SN LNDRO	115	3	1	26.45	6.03
35101	SN LNDRO	115	SL	1	7.8	1.58
35104	GRANT	115	1	1	23.95	5.46
35104	GRANT	115	2	1	26.01	5.93
35106	MT EDEN	115	1	1	38.61	8.8
35106	MT EDEN	115	2	1	36.1	8.23
35106	MT EDEN	115	3	1	34.77	7.93

BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD	BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD
32066	DUNNIGAN	60	1	1	7.9	0.36	35107	DUMBARTN	115	1	1	24.42	5.57
32068	COLUSA	60	1	1	8.19	0.37	35107	DUMBARTN	115	2	1	25.84	5.89
32068	COLUSA	60	2	1	5.91	0.27	35107	DUMBARTN	115	3	1	31.54	7.19
32070	CLSA JCT	60	1	1	3.28	0.15	35110	FREMNT	115	1	1	31.72	7.23
32072	MERIDIAN	60	1	1	4.04	0.18	35110	FREMNT	115	2	1	19.38	4.41
32074	CORDELIA	60	4	1	11.94	0.53	35110	FREMNT	115	3	1	27.52	6.27
32076	WILKINS	60	1	1	5.72	0.26	35111	JARVIS	115	1	1	17.7	4.03
32077	CORD PMP	60	1	1	4.74	1.56	35111	JARVIS	115	2	1	26.59	6.06
32080	DIST2047	60	1	0	2.6	0.86	35111	JARVIS	115	3	1	34.15	7.78
32080	DIST2047	60	2	0	2.5	0.82	35112	NUMMI	115	1	1	30.88	8.14
32081	DIST1500	60	1	0	3.3	0.75	35113	DMTAR_SL	115	1	1	3.61	2.24
32090	WINTERS	60	1	1	5.56	0.25	35115	JV BART	115	1	1	7.1	1.44
32091	CRD_INTR	60	1	1	2.8	0.9	35116	CRYOGEN	115	1	1	0.17	0.04
32092	PLAINFLD	60	1	1	5.48	0.25	35120	NEWARK D	115	3	1	25.84	5.89
32092	PLAINFLD	60	2	1	5.48	0.25	35120	NEWARK D	115	4	1	24.33	5.54
32097	TRAVIS	60	1	1	18.67	5.59	35127	WESTRN_D	115	1	1	6.8	4.25
32099	TRVS_HPT	60	1	1	4.82	1.41	35201	VASCO	60	1	1	6	1.37
32100	DIXON	60	1	1	16.69	0.75	35201	VASCO	60	2	1	8.78	2
32100	DIXON	60	2	1	13.97	0.62	35203	LIVERMRE	60	1	1	10.62	2.42
32102	CAMPUS	115	1	1	36.56	8.33	35205	RADUM	60	1	1	9.13	2.08
32106	DIXONCAN	60	1	1	3.28	0.75	35205	RADUM	60	2	1	10.18	2.32
32112	MAINE-PR	60	1	1	0.1	0.02	35206	KAISER	60	1	1	1.09	2.16
32113	BTAV-JCT	60	1	1	0.1	0.02	35212	IUKA	60	1	1	3.34	2.95
32154	WADHAM	9.11	SG	1	1.06	0.24	35213	VALLECTS	60	1	1	1.16	0.2
32156	WOODLAND	9.11	SG	1	1.56	0.36	35214	SUNOL	60	1	1	6.87	1.57
32185	WOLFSKIL	13.8	ss	1	1.3	0.3	35219	VINEYARD	230	2	1	48.81	11.13
32200	PEASE	115	1	1	9.98	0.45	35221	E DUBLIN	60	1	1	2.2	0.45
32200	PEASE	115	3	1	9.48	0.43	35222	CALMAT60	60	1	1	6.62	4.1
32200	PEASE	115	4	1	10.15	0.46	35224	VINEYD_D	230	1	1	31.52	7.18
32202	E.MRYSVE	115	2	1	10.18	0.46	35225	LIVRMR_2	60	2	1	13.57	3.09
32202	E.MRYSVE	115	3	1	9.38	0.42	35300	NWRK 11T	13.2	1	1	0.17	0.05
32204	OLIVHRST	115	1	1	6.46	0.29	35301	NWRK 9T	13.2	1	1	0.17	0.05
32204	OLIVHRST	115	2	1	20.55	0.92	35303	NWRK 7T	13.2	1	1	0.17	0.05
32206	BOGUE	115	1	1	32.53	1.46	35304	RCECTG1	15	ss	1	3	1.66
32206	BOGUE	115	2	1	19.8	0.88	35305	RCECTG2	15	ss	1	3	1.66
32226	BRUNSWCK	115	2	1	29.42	1.32	35306	RCECSTG1	18	ss	1	9	4.98
32226	BRUNSWCK	115	3	1	7.78	0.35	35349	AMES DST	115	1	1	14.75	3.36
32227	BRNSWALT	115	1	1	23.22	1.04	35350	AMES BS1	115	1	1	43.14	0
32228	PLACER	115	2	1	22.45	1	35351	AMES BS2	115	2	1	43.14	0
32228	PLACER	115	3	1	9.73	0.43	35352	WHISMAN	115	1	1	22.33	5.09
32230	HORSESHE	115	1	1	15.33	0.68	35352	WHISMAN	115	2	1	24.02	5.47
32230	HORSESHE	115	2	1	35.09	1.57	35352	WHISMAN	115	3	1	20.34	4.63
32232	HIGGINS	115	1	1	7.07	0.32	35353	MT VIEW	115	1	1	30.3	6.9
32232	HIGGINS	115	2	1	7.07	0.32	35353	MT VIEW	115	2	1	32.19	7.34
32232	HIGGINS	115	3	1	16.71	0.75	35353	MT VIEW	115	3	1	29.11	6.63
32237	FLINT	115	1	1	14.34	0.64	35354	STELLING	115	1	1	31.51	7.18
32238	BELL PGE	115	2	1	21.95	0.98	35354	STELLING	115	2	1	32.14	7.32
32238	BELL PGE	115	3	1	15.05	0.68	35354	STELLING	115	3	1	32.89	7.5
32248	ROCKLIN	60	1	1	18.51	0	35355	WOLFE	115	1	1	25.27	5.76
32248	ROCKLIN	60	2	1	7.8	0	35355	WOLFE	115	2	1	31.85	7.26
32250	ELDORAD	115	1	1	9.13	0.41	35355	WOLFE	115	3	1	16.4	3.74

BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD	BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD
32252	APPLE HL	115	1	1	14.32	0.64	35359	MOFT.FLD	115	1	1	4.46	1.12
32252	APPLE HL	115	2	1	9.03	0.41	35361	LOCKHD 1	115	3	1	17.45	14.46
32254	PLCRVLB2	115	2	1	8.8	0.39	35362	LOCKHD 2	115	1	1	7.56	1.72
32256	PLCRVLB3	115	3	1	25.14	1.12	35362	LOCKHD 2	115	2	1	3.42	0.78
32258	DMND SPR	115	1	1	9.55	0.43	35362	LOCKHD 2	115	4	1	16.21	12.58
32258	DMND SPR	115	2	1	27.17	1.22	35363	LAWRENCE	115	1	1	50.73	11.56
32263	CLRKSVLE	115	1	1	44	1.97	35363	LAWRENCE	115	2	1	20.08	4.58
32263	CLRKSVLE	115	2	1	46.77	2.09	35363	LAWRENCE	115	3	1	35.41	8.07
32263	CLRKSVLE	115	3	1	44.69	2	35364	A.M.D	115	1	1	1.67	1.17
32265	SHPRING	115	1	1	19.35	0.87	35366	PHILLIPS	115	1	1	1.25	0
32265	SHPRING	115	2	1	21.21	0.95	35368	BRITTN	115	1	1	27.96	6.37
32266	TAYLOR	60	1	1	1.72	1.11	35368	BRITTN	115	2	1	47.94	10.93
32270	PENRYN	60	1	1	28.51	0	35368	BRITTN	115	3	1	23.61	5.38
32272	DEL MAR	60	1	1	17.39	0	35369	APP MAT	115	1	1	10.11	2.53
32272	DEL MAR	60	2	1	34.12	0	35450	LOS ALTS	60	1	1	1.89	0.43
32274	SIERRAPI	60	1	1	16.39	9.29	35450	LOS ALTS	60	2	1	9.73	2.22
32276	CPM	115	1	0	0	0	35450	LOS ALTS	60	3	1	11	2.51
32278	SPICAMIN	115	1	1	3.62	3.19	35452	LOYOLA	60	1	1	4.43	1.01
32306	CATLETT	60	1	1	6.29	0.28	35452	LOYOLA	60	2	1	21.57	4.92
32310	NARRWS 1	60	1	1	13.75	0.61	35453	NRTHGRUM	60	1	1	5.99	4.18
32312	NARRWS 2	60	2	1	13.75	0.61	35457	PERMNNTE	60	1	1	29.94	20.9
32314	SMRTSVLE	60	1	1	2.58	0.11	35460	LOS GATS	60	1	1	20.79	4.74
32316	YUBAGOLD	60	1	1	0.17	0.15	35460	LOS GATS	60	2	1	17.01	3.88
32318	BRWNS VY	60	1	1	3.24	0.14	35600	DIXON LD	115	1	1	28.68	6.54
32320	MRYSVLLE	60	1	1	18.17	0.81	35600	DIXON LD	115	2	1	19.33	4.4
32320	MRYSVLLE	60	3	1	14	0.63	35600	DIXON LD	115	3	1	15.35	3.5
32322	ENCINAL	60	1	1	0.7	0.16	35606	AGNEW	115	1	1	31.91	7.27
32324	HARTER	60	1	1	21.96	0.98	35606	AGNEW	115	2	1	42.41	9.66
32324	HARTER	60	2	1	26.13	1.17	35610	MONTAGUE	115	1	1	37.77	8.61
32334	LIVE OAK	60	1	1	5.94	0.26	35610	MONTAGUE	115	2	1	42.11	9.6
32334	LIVE OAK	60	2	1	3.79	0.17	35610	MONTAGUE	115	3	1	34.14	7.78
32338	BARRY	60	1	1	3.99	0.18	35612	TRIMBLE	115	1	1	29.68	6.77
32340	TUDOR	60	1	1	3.19	0.14	35612	TRIMBLE	115	2	1	33.72	7.68
32342	E.NICOLS	60	1	1	5.31	0.24	35612	TRIMBLE	115	3	1	43.92	10.01
32344	PLUMAS	60	1	1	16.02	0.72	35612	TRIMBLE	115	5	1	35.64	8.12
32344	PLUMAS	60	2	1	7.64	0.34	35615	FMC	115	1	1	21.65	4.93
32346	BEALE_1	60	1	1	5.75	3.01	35615	FMC	115	3	1	28.54	6.51
32347	BEALE_2	60	1	1	17.25	3.93	35616	SJ B E	115	1	1	45.43	10.35
32350	WHEATLND	60	1	1	8.19	0.37	35616	SJ B E	115	4	1	40.44	9.21
32350	WHEATLND	60	2	1	7.33	0.33	35618	SN JSE A	115	1	1	8.6	1.96
32356	LINCLN	115	1	1	33.17	0	35618	SN JSE A	115	2	1	9	2.05
32356	LINCLN	115	2	1	7.82	0	35618	SN JSE A	115	3	1	39.97	9.1
32356	LINCLN	115	3	1	18.31	0	35619	SJ B F	115	2	1	43.89	10
32358	CLMBA HL	60	1	1	1.95	0.09	35619	SJ B F	115	3	1	45.67	10.41
32360	PIKE CTY	60	1	1	0.61	0.03	35620	EL PATIO	115	1	1	45.08	10.28
32362	ALLEGHNY	60	1	1	1.46	0.06	35620	EL PATIO	115	2	1	41.19	9.39
32363	CISCOTAP	60	1	1	1.02	0.48	35620	EL PATIO	115	3	1	41	9.34
32364	GRSS VLY	60	2	1	13.71	0.61	35622	SWIFT	115	1	1	32.49	7.41
32365	TAMARACK	60	1	1	1.02	0.04	35622	SWIFT	115	2	1	32.21	7.34
32368	CAPEHORN	60	1	1	2.35	1.27	35622	SWIFT	115	3	1	43.51	9.91
32372	SPAULDNG	60	1	1	0.51	0.02	35624	MILPITAS	115	1	1	42.72	9.74

BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD	BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD
32374	DRUM	60	1	1	0.34	0.01	35624	MILPITAS	115	2	1	35.14	8.01
32376	BONNIE N	60	1	1	1.42	0.06	35624	MILPITAS	115	3	1	19.8	4.51
32380	WEMR SWS	60	1	1	7.82	0.35	35624	MILPITAS	115	6	1	38.57	8.79
32381	SHADYGLN	60	1	1	7.87	0.35	35626	MCKEE	115	1	1	39.23	8.94
32382	FORST HL	60	1	1	8.07	0.36	35626	MCKEE	115	2	1	24.48	5.57
32390	HALSEY	60	1	1	17.38	0.78	35626	MCKEE	115	3	1	35.43	8.08
32392	AUBURN	60	1	1	4.99	0.22	35630	MABURY	115	2	1	19	4.33
32396	LIMESTNE	60	1	1	0.02	0	35636	EVRGRN 1	115	2	1	48.55	11.07
32396	LIMESTNE	60	PW	1	2.46	2.1	35636	EVRGRN 1	115	3	1	16.81	3.83
32408	PLSNT GR	115	1	1	43.04	0	35637	IBM-CTLE	115	1	1	28.58	22.18
32408	PLSNT GR	115	2	1	41.16	0	35638	EDENVALE	115	1	1	25.49	5.81
32408	PLSNT GR	115	3	1	34.21	0	35638	EDENVALE	115	2	1	25.48	5.8
32411	MTN_QUAR	60	1	1	13.9	0.62	35638	EDENVALE	115	3	1	51.97	11.85
32414	FORMICA	115	1	0	0.5	0.35	35638	EDENVALE	115	4	1	25.57	5.83
32451	FREC	13.8	1	1	1.3	0.3	35639	IBM-HRRS	115	1	1	2.43	1.63
32451	FREC	13.8	ss	1	1.3	0.3	35639	IBM-HRRS	115	2	1	2.43	1.63
32490	GRNLEAF1	13.8	1	1	1.3	0.3	35640	IBM-BALY	115	1	1	5.63	3.04
32490	GRNLEAF1	13.8	ss	1	0.67	0.15	35640	IBM-BALY	115	2	1	0	0
32492	GRNLEAF2	13.8	1	1	0.54	0.12	35644	CYTE PMP	115	1	1	4.9	1.12
32492	GRNLEAF2	13.8	ss	1	0.5	0.11	35646	MRGN HIL	115	1	1	26.52	6.04
32494	YUBA CTY	9.11	1	1	0.32	0.07	35646	MRGN HIL	115	2	1	22.86	5.21
32494	YUBA CTY	9.11	ss	1	0.32	0.07	35646	MRGN HIL	115	3	1	44.34	10.1
32496	YCEC	13.8	1	1	1.15	0.26	35648	LLAGAS	115	1	1	30.4	6.92
32496	YCEC	13.8	ss	1	1.39	0.32	35648	LLAGAS	115	2	1	24.51	5.58
32498	SPILINCF	12.5	1	1	7.5	7.65	35648	LLAGAS	115	3	1	31.19	7.11
32498	SPILINCF	12.5	SG	1	1.1	0.6	35650	GILROY F	115	1	1	8.88	7.83
32500	ULTR RCK	9.11	SG	1	1.34	0.31	35656	PIERCY	115	3	1	35.37	8.06
32513	ELDRADO1	21.6	SG	1	0.08	0.02	35659	NORTECH	115	3	1	15.25	3.48
32514	ELDRADO2	21.6	SG	1	0.08	0.02	35750	MABURY	60	1	1	17.1	3.9
32550	SILVERDO	115	1	1	21.67	3.09	35751	JENNINGS	60	1	1	0.71	0.77
32550	SILVERDO	115	2	1	27.99	3.99	35757	ALMADEN	60	1	1	18.96	4.32
32554	MONTCLLO	115	1	1	6.93	0.99	35850	GLRY COG	13.8	SG	1	1.73	1.43
32564	PUEBLO	115	1	1	48.17	6.86	35854	LECEFGT1	13.8	ss	1	0.6	0.37
32564	PUEBLO	115	2	1	38.82	5.53	35855	LECEFGT2	13.8	ss	1	0.6	0.37
32568	IGNACIO	115	2	1	15.92	2.27	35856	LECEFGT3	13.8	ss	1	0.6	0.37
32568	IGNACIO	115	5	1	16.1	2.29	35857	LECEFGT4	13.8	ss	1	0.6	0.37
32569	HMLT_WET	115	1	1	15	9.3	35860	OLS-AGNE	9.11	SG	1	1.92	1.59
32570	LS GLLNS	115	1	1	14.53	2.07	35861	SJ-SCL W	9.11	SG	1	6.17	2.09
32570	LS GLLNS	115	2	1	9.81	1.4	35863	CATALYST	9.11	1	1	9.12	3.09
32570	LS GLLNS	115	3	1	10.97	1.56	35901	GRN VLY1	115	3	1	18.09	2.58
32574	SAN RAFL	115	1	1	26.66	3.8	35903	GRN VLY2	115	2	1	18.5	2.64
32574	SAN RAFL	115	2	1	25.42	3.62	35905	CMP EVRS	115	1	1	20.02	2.85
32574	SAN RAFL	115	3	1	17.66	2.52	35905	CMP EVRS	115	2	1	19.5	2.78
32590	HIGHWAY	115	1	1	20.67	2.94	35907	PAUL SWT	115	1	1	27.68	3.94
32590	HIGHWAY	115	2	1	25.37	3.61	35907	PAUL SWT	115	2	1	21.07	3
32600	MEYERS	115	1	1	0.24	0.05	35907	PAUL SWT	115	3	1	28.99	4.13
32602	NRTH TWR	115	1	1	14.43	2.06	35908	ROB ROY	115	1	1	11.78	1.68
32602	NRTH TWR	115	2	1	9.58	1.37	35909	HOLLISTR	115	1	1	16.43	2.34
32602	NRTH TWR	115	3	1	6.08	0.87	35909	HOLLISTR	115	2	1	11.03	1.57
32602	NRTH TWR	115	4	1	2.85	0.41	35916	PRUNEDLE	115	2	1	9.73	1.39
32606	CARQUINZ	115	1	1	13.23	1.89	35916	PRUNEDLE	115	3	1	10.51	1.5

BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD	BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD
32606	CARQUINZ	115	2	1	11.26	1.6	35918	SALINAS2	115	4	1	36.54	5.21
32610	MRE IS-Q	115	1	1	4.25	0.86	35918	SALINAS2	115	6	1	26.12	3.72
32652	CALISTGA	60	1	1	18.46	2.63	35919	SOLEDAD	115	3	1	20.17	2.87
32654	TULUCAY	60	2	1	11.77	1.68	35924	CSTRVLL	115	1	1	17.89	2.55
32656	NAPA	60	1	1	19.68	2.8	35926	DOLAN RD	115	1	1	10.74	1.53
32656	NAPA	60	2	1	16.99	2.42	35929	DEL MNTE	115	1	1	15.85	2.26
32658	BASALT	60	1	1	3.68	0.53	35929	DEL MNTE	115	2	1	24.36	3.47
32658	BASALT	60	2	1	20.76	2.96	35940	HOLST D	115	3	1	34.04	4.85
32668	NOVATO	60	1	1	5.04	0.72	36000	BIG BASN	60	1	1	6.71	0.96
32668	NOVATO	60	2	1	15.47	2.2	36004	LONE STR	60	1	1	7.33	2.14
32670	STAFFORD	60	1	1	10.16	1.45	36006	PT MRTTI	60	1	1	2.16	0.31
32670	STAFFORD	60	2	1	10.61	1.51	36007	CRUSHER	60	1	1	0.44	0.45
32671	BOLINAS	60	1	1	1.48	0.21	36010	ERTA	60	2	1	2.74	0.39
32672	OLEMA	60	1	1	3.24	0.46	36012	WTSNVLL	60	1	1	10.21	1.45
32674	WOODACRE	60	1	1	7.94	1.13	36012	WTSNVLL	60	3	1	3.43	0.49
32680	GREENBRE	60	1	1	10.09	1.44	36015	GRANT RK	60	1	1	7.26	6.21
32680	GREENBRE	60	2	1	13.05	1.86	36016	AGRILINK	60	1	1	0.18	0.11
32682	ALTO	60	1	1	17.21	2.45	36018	BRIGTANO	60	1	1	2.57	3.52
32682	ALTO	60	3	1	18.42	2.62	36020	LGNTS J1	60	1	1	2.5	0.82
32688	SAUSALTO	60	2	1	10.92	1.56	36023	GABILAN	60	1	1	15.18	2.16
32740	HILLSIDE	115	SG	1	30.51	18.91	36029	BORONDA	60	1	1	7.41	1.06
32748	PP STEEL	115	1	1	0.19	0.25	36031	FORT ORD	60	1	1	10.74	1.53
32758	SAN PBLO	115	1	1	19.98	4.55	36031	FORT ORD	60	2	1	13.96	1.99
32760	PT PINLE	115	1	1	14.78	3.36	36036	MONTEREY	60	1	1	4.88	0.7
32762	STD. OIL	115	SG	1	137.52	58.58	36037	NVY SCHL	60	1	1	2.13	1.09
32764	VALLY VW	115	1	1	7.65	1.74	36038	VIEJO	60	1	1	12.1	1.72
32764	VALLY VW	115	2	1	15.69	3.58	36038	VIEJO	60	2	1	14.35	2.05
32766	EL CRRTO	115	1	1	25.48	5.81	36039	HATTON	60	1	1	10.64	1.52
32766	EL CRRTO	115	2	1	31.69	7.22	36041	NAVY LAB	60	1	1	1.64	0.7
32766	EL CRRTO	115	4	1	55.53	12.65	36043	RSVTN RD	60	1	1	9.35	1.33
32766	EL CRRTO	115	5	1	7.1	1.44	36044	LAURELES	60	1	1	5.23	0.75
32766	EL CRRTO	115	6	1	6.9	1.4	36045	OTTER	60	1	1	3.07	0.44
32768	RICHMOND	115	1	1	37.7	8.59	36047	FRSHXPRS	60	1	1	7	4.89
32768	RICHMOND	115	2	1	18.34	4.18	36049	BNA VSTA	60	1	1	4.68	0.67
32770	GRIZZLY2	115	1	1	4.37	0.77	36049	BNA VSTA	60	2	1	16.15	2.3
32780	CLARMNT	115	2	1	19.48	4.44	36049	BNA VSTA	60	3	1	16.59	2.36
32782	STATIN D	115	3	1	26.13	5.95	36050	FIRESTNE	60	1	1	1.12	0.16
32782	STATIN D	115	4	1	39.73	9.05	36053	SPENCE	60	2	1	14.38	2.05
32782	STATIN D	115	5	1	43.68	9.96	36055	IND.ACRE	60	1	1	3.88	0.55
32786	OAK C115	115	5	1	10.4	2.11	36060	GONZALES	60	3	1	4.61	0.66
32786	OAK C115	115	6	1	4.23	0.86	36060	GONZALES	60	4	1	12.88	1.83
32788	STATIN L	115	1	1	18.05	4.11	36062	CAMPHORA	60	1	1	3.31	1.31
32788	STATIN L	115	3	1	18.05	4.11	36062	CAMPHORA	60	2	1	7.49	1.07
32788	STATIN L	115	5	1	18.05	4.11	36064	SOLEDAD	60	2	1	9.91	1.41
32790	STATIN X	115	2	1	21.01	4.79	36066	LOS CCHS	60	2	1	11.64	1.66
32790	STATIN X	115	3	1	17.34	3.95	36069	LOS OST	60	1	1	14.99	2.14
32790	STATIN X	115	4	1	16.12	3.67	36073	KING CTY	60	1	1	9.37	1.33
32792	STATIN J	115	1	1	38.21	8.71	36073	KING CTY	60	3	1	5.94	0.85
32792	STATIN J	115	2	1	17.16	3.91	36073	KING CTY	60	4	1	4.32	0.62
32792	STATIN J	115	5	1	28.89	6.58	36074	JOLON	60	1	1	4.15	0.59
32793	SCHNITZ	115	1	1	9.29	4.5	36076	BA FOOD1	60	1	1	0.99	0.59

BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD
32794	MARITIME	115	1	1	0.95	1.11
32800	OWNBRKWY	115	1	1	9.29	5.51
32810	EDES	115	2	1	18.85	4.29
32810	EDES	115	3	1	29.45	6.71
32849	CON25	115	1	1	25	15.56
32854	PRT CSTA	60	1	1	0.28	0.25
32856	FRANKLIN	60	1	1	16.51	3.76
32856	FRANKLIN	60	2	1	16.3	3.72
32908	OAK C12	12	1	1	26.52	6.04
32908	OAK C12	12	2	1	26.52	6.04
32908	OAK C12	12	3	1	26.52	6.04
32910	UNOCAL	12	SG	1	20.81	12.9
32920	UNION CH	9.11	SG	1	2.35	0.54
32951	KIRKER	115	1	1	38.02	7.72
32951	KIRKER	115	2	1	44.19	8.97
32951	KIRKER	115	3	1	53.77	10.92
32957	PRAXAIR	115	1	1	20.67	4.61
32970	CLAYTN	115	1	1	26.88	6.13
32970	CLAYTN	115	2	1	42.89	9.78
32970	CLAYTN	115	3	1	45.56	10.38
32970	CLAYTN	115	5	1	9.51	2.16
32971	MEDW LNE	115	1	1	39.33	8.97
32971	MEDW LNE	115	2	1	46.84	10.68
32971	MEDW LNE	115	3	1	43.88	10
32972	EBMUDGRY	115	1	1	5.67	1.86
32973	LAKEWD-C	115	5	1	19.48	4.44
32973	LAKEWD-C	115	6	1	44.2	10.08
32974	LAKEWD-M	115	1	1	38.07	8.68
32974	LAKEWD-M	115	2	1	25.72	5.86
32974	LAKEWD-M	115	4	1	48.09	10.96
32974	LAKEWD-M	115	LW	1	5.66	1.15
32978	LMEC	115	CS	1	20	8.52
32978	LMEC	115	PC	1	40	17.04
32978	LMEC	115	ss	1	7.04	2.31
32990	MARTNZ D	115	5	1	45.86	10.45
32993	W.P.BART	115	1	1	7.29	1.48
32993	W.P.BART	115	3	1	13.49	3.07
32994	BOLLMAN	115	1	1	2.59	1.36
32994	BOLLMAN	115	2	1	2.59	1.36
33000	CC SUB	115	4	1	42.14	8.55
33001	DOMTAR	115	1	1	2.4	2.12
33010	SOBRANTE	115	3	1	21.75	4.96
33011	ALHAMBRA	115	1	1	10.29	2.34
33011	ALHAMBRA	115	2	1	9.17	2.09
33012	EST PRTL	115	1	1	7.66	1.55
33020	MORAGA	115	5	1	28.65	6.53
33051	DU PONT	60	1	1	2	2.16
33053	BRIONES	60	1	1	3.9	1.84
33054	BALFOUR	60	1	1	4	0.81
33055	BIXLER	60	1	1	2	0.97
33060	ANTIOCH	60	1	1	1.93	0.39

BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD
36082	SAN ARDO	60	1	1	6.48	0.92
36084	OILFLDS	60	1	1	4.71	0.67
36084	OILFLDS	60	2	1	13.57	1.93
36085	TEXACO	60	1	1	5.44	2.63
36200	SARGCN G	13.8	SG	1	1.2	0.27
36201	SALNR GN	13.8	SG	1	1.44	0.32
36205	CIC COGN	12.47	SG	1	0.29	0.07
36209	SLD ENRG	12.47	SG	0	0.36	0.08
36221	DUKMOSS1	18	ss	1	6.59	3.3
36222	DUKMOSS2	18	ss	1	6.59	3.3
36224	DUKMOSS4	18	ss	1	6.59	3.3
36225	DUKMOSS5	18	ss	1	6.59	3.3
36250	FOOTHILL	115	1	1	8.61	1.23
36252	MORRO BY	115	11	1	11.58	1.65
36254	SN LS OB	115	4	1	17.77	2.53
36254	SN LS OB	115	6	1	30.37	4.33
36260	SISQUOC	115	2	1	7.85	1.12
36260	SISQUOC	115	3	1	6.83	0.97
36266	SNTA MRA	115	2	1	31.69	4.52
36266	SNTA MRA	115	3	1	29.26	4.17
36270	FAIRWAY	115	1	1	15.37	2.19
36270	FAIRWAY	115	2	1	23.96	3.41
36274	BUELLTON	115	1	1	6.82	0.97
36274	BUELLTON	115	2	1	9.34	1.33
36278	OCEANO	115	1	1	14.16	2.02
36278	OCEANO	115	2	1	36.51	5.2
36280	UNION OL	115	1	1	7.08	1.77
36284	SURF	115	1	1	1.08	0
36286	PALMR	115	1	1	1.76	0.25
36288	ZACA	115	1	1	7.09	1.01
36290	SNTA YNZ	115	1	1	11.4	1.62
36290	SNTA YNZ	115	2	1	12.4	1.77
36292	MANVILLE	115	1	1	11.69	7.55
36294	CABRILLO	115	1	1	6.16	0.88
36298	PURISIMA	115	1	1	5.66	0.81
36302	GOLDTREE	115	1	1	13.52	1.93
36302	GOLDTREE	115	MC	1	2.65	1.99
36350	CHOLAME	70	1	1	6.62	0.94
36350	CHOLAME	70	2	1	4.32	0.62
36354	SAN MIGL	70	1	1	9.46	1.35
36356	PSA RBLS	70	1	1	13.83	1.97
36356	PSA RBLS	70	2	1	13.35	1.9
36356	PSA RBLS	70	3	1	32.13	4.58
36358	ATASCDRO	70	1	1	23.69	3.38
36364	CAYUCOS	70	1	1	5.43	0.77
36364	CAYUCOS	70	2	1	0	0
36366	PERRY	70	1	1	2.81	0.4
36368	CAMBRIA	70	1	1	1.99	0.28
36370	BAYWOOD	70	2	1	0.69	0.1
36374	MUSTANG	70	1	1	7.05	4.18
36378	DIVIDE	70	3	1	5.38	0.77

BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD	BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD
33061	PITTSBRG	60	1	1	0.64	0.13	36380	VAFB SSA	70	1	1	13.2	3.85
33062	SHLL CHM	60	1	1	2.27	1.41	36405	MOSSLND6	22	ss	1	6.72	5.39
33063	WLLW PSS	60	1	1	9.78	2.23	36406	MOSSLND7	22	ss	1	6.72	5.39
33064	SFPP CNC	60	1	1	8.05	4.78	36407	MORRO 1	18	ss	0	7	3.51
33065	URICH	60	1	1	1.99	1.23	36408	MORRO 2	18	ss	0	7	3.51
33105	PTSB 5	18	ss	1	7.72	3.95	36409	MORRO 3	18	ss	1	7	3.51
33106	PTSB 6	18	ss	1	7.72	3.95	36410	MORRO 4	18	ss	1	7	3.51
33116	C.COS 6	18	ss	1	5	2.56	36411	DIABLO 1	25	ss	1	50	25
33117	C.COS 7	18	ss	1	5	2.56	36412	DIABLO 2	25	ss	1	50	25
33131	GWF #1	9.11	SG	1	2.56	0.58	36416	ST MARIA	9.11	1	1	2.6	2.51
33132	GWF #2	13.8	SG	1	2.81	0.64	36416	ST MARIA	9.11	SG	1	2.6	2.51
33133	GWF #3	13.8	SG	1	2.84	0.65	36418	GAREY	4	1	1	2.28	1.95
33134	GWF #4	13.8	SG	1	2.88	0.66	36420	STONE	115	1	1	35.69	8.13
33135	GWF #5	13.8	SG	1	2.77	0.63	36420	STONE	115	2	1	14.87	3.39
33136	CCCS	12.47	SG	1	3.37	0.77	36856	CCA100	13.8	1	1	6.65	0.81
33139	STAUFER	9.11	SG	1	2.23	0.32	36857	Mission	60	1	1	24.72	1.18
33141	SHELL 1	12.47	SG	1	21.86	3.83	36857	Mission	60	2	1	24.74	1.16
33142	SHELL 2	12.47	SG	1	21.86	3.83	36859	Laf300	12	1	1	17.55	0.83
33143	SHELL 3	12.47	SG	1	21.86	3.83	36860	Palm	60	1	1	9.65	0.84
33150	TOSCO	12.47	SG	1	94.8	58.75	36860	Palm	60	2	1	10.53	0.85
33160	DOW CHEM	13.8	SG	1	15	9.3	36866	DVRbLoad	13.8	ss	1	5.17	0.84
33178	RVEC_GEN	13.8	ss	1	1.25	0.77	36869	Northwes	60	1	1	4.5	0.84
33203	MISSON	115	1	1	36.89	7.49	36869	Northwes	60	2	1	4.24	0.84
33203	MISSON	115	2	1	36.89	7.49	36870	Agnew	60	1	1	12.48	1.14
33203	MISSON	115	3	1	36.89	7.49	36870	Agnew	60	2	1	11.67	0.81
33203	MISSON	115	4	1	36.89	7.49	36871	Brokaw	60	1	1	18.06	0.85
33203	MISSON	115	5	1	36.89	7.49	36871	Brokaw	60	2	1	17.51	0.85
33204	POTRERO	115	1	1	43.69	8.87	36873	Central	60	1	1	18.17	0.89
33204	POTRERO	115	10	1	43.69	8.87	36873	Central	60	2	1	18.62	0.91
33204	POTRERO	115	2	1	43.69	3.92	36874	Fibergla	60	1	1	7.89	1.1
33205	HNTRS PT	115	1	1	28.47	1.27	36874	Fibergla	60	2	1	7.47	0.1
33205	HNTRS PT	115	6	1	28.47	2.55	36876	Homestea	60	1	1	18.72	0.79
33206	BAYSHOR1	115	1	1	4.75	0.68	36876	Homestea	60	2	1	19.95	0.87
33207	BAYSHOR2	115	2	1	6.65	0.95	36877	Juliette	60	1	1	14.08	0.84
33208	MARTIN C	115	1	1	32.54	2.06	36877	Juliette	60	2	1	11.93	0.84
33208	MARTIN C	115	1B	1	32.54	2.06	36879	Laf T1	60	1	1	8.66	0.8
33208	MARTIN C	115	4	1	32.54	2.06	36880	Laf T2	60	1	1	10.42	0.81
33213	CCSF1	115	1	1	5.4	3.35	36882	Mathew	60	1	1	13.64	0.85
33218	LARKIN 1	12	1	1	121.9	24.11	36882	Mathew	60	2	1	13.31	0.84
33219	LARKIN 2	12	1	1	121.9	24.11	36883	NAJ	60	1	1	16.82	0.84
33252	POTRERO3	20	ss	1	4.12	2.11	36886	SRS	60	1	1	16.94	0.84
33300	DALY CTY	115	1	1	50.29	11.46	36886	SRS	60	2	1	15.62	0.84
33300	DALY CTY	115	2	1	30.35	6.92	36887	Serra	60	1	1	13.63	0.89
33302	SERRMNTTE	115	1	1	11.42	2.6	36888	Tasman	60	1	1	17.33	0.85
33303	EST GRND	115	1	1	58.02	13.22	36888	Tasman	60	2	1	21.99	0.87
33303	EST GRND	115	4	1	38.34	8.74	36888	Tasman	60	3	1	17.33	0.7
33303	EST GRND	115	5	1	35.32	8.05	36889	Uranium	60	1	1	16.8	0.75
33305	SHAWROAD	115	1	1	9	1.83	36889	Uranium	60	2	1	11.45	0.76
33306	SFIA	115	1	1	18.7	3.8	36890	Walsh	60	1	1	16.83	0.86
33306	SFIA	115	2	1	18.7	3.8	36890	Walsh	60	2	1	16.53	0.71
33307	MILLBRAE	115	3	1	23.03	5.25	36891	Zeno	60	1	1	11.59	0.77

BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD
33307	MILLBRAE	115	4	1	22.69	5.18
33308	SFIA-MA	115	1	1	20.2	4.1
33309	SANPAULA	115	1	1	8	1.62
33310	SANMATEO	115	9	1	18.54	4.22
33311	BAY MDWS	115	1	1	43.91	10.01
33311	BAY MDWS	115	2	1	34.54	7.87
33311	BAY MDWS	115	3	1	20.42	4.66
33311	BAY MDWS	115	5	1	19.08	4.35
33312	BELMONT	115	1	1	37.28	8.49
33312	BELMONT	115	2	1	9.8	2.23
33312	BELMONT	115	3	1	31.91	7.27
33313	BAIR	115	2	1	16.67	3.8
33314	SHREDDER	115	1	1	4.77	5.43
33320	LONESTAR	115	1	1	2.57	3.43
33350	SNTH LNE	60	1	1	7.61	1.73
33350	SNTH LNE	60	2	1	9.62	2.19
33351	SN BRNOT	60	1	1	3.36	0.77
33352	SNANDRES	60	1	1	1.8	0.37
33353	MILLBRAE	60	1	1	5.16	1.18
33355	PACIFICA	60	1	1	9.92	2.26
33355	PACIFICA	60	2	1	5.61	1.28
33356	BURLNGME	115	1	1	10.08	2.3
33357	SAN MATO	60	4	1	8.55	1.94
33358	BERESFRD	60	1	1	5.8	1.32
33358	BERESFRD	60	2	1	4.07	0.93
33359	CAROLNDS	60	1	1	2.65	0.6
33359	CAROLNDS	60	2	1	4.88	1.11
33360	HILLSdle	60	1	1	7.32	1.67
33362	CRYSTLSG	60	1	1	3	0.61
33363	RALSTON	60	1	1	6.53	1.49
33363	RALSTON	60	2	1	3.37	0.77
33364	ORACLE60	60	1	1	11.86	5.4
33365	SAN CRLS	60	1	1	12.95	2.95
33365	SAN CRLS	60	2	1	19.09	4.35
33365	SAN CRLS	60	3	1	9.8	2.23
33366	HLF MNBY	60	1	1	8.02	1.82
33366	HLF MNBY	60	2	1	8.73	1.99
33366	HLF MNBY	60	3	1	9.64	2.19
33370	REDWOOD	60	1	1	11.8	2.69
33370	REDWOOD	60	2	1	5.12	1.17
33370	REDWOOD	60	3	1	8.98	2.05
33370	REDWOOD	60	4	1	8.44	1.93
33370	REDWOOD	60	5	1	30.43	6.94
33371	RAYCHEM	60	1	1	7.48	5.22
33372	BLLE HVN	60	1	1	7.52	1.71
33372	BLLE HVN	60	2	1	8.46	1.93
33372	BLLE HVN	60	3	1	15.39	3.51
33372	BLLE HVN	60	4	1	14.12	3.21
33372	BLLE HVN	60	5	1	29.05	6.62
33376	LAS PLGS	60	1	1	3.3	0.75
33376	LAS PLGS	60	2	1	3.3	0.75

BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD
36891	Zeno	60	2	1	7.7	0.84
36900	RICHMOND	60	1	1	4.9	1.12
36902	MEADOWVW	60	1	1	2.62	0.6
36904	MILLWOOD	60	1	1	16.52	3.76
36908	JELD-WEN	60	1	1	1.63	0.37
36930	CHESTNUT	14.4	1	1	0.5	0.12
36936	JELD-WN	9.11	1	1	1.43	0.32
37101	CARMICAL	69	1	1	159.22	35.8
37102	ELKGROV1	69	1	1	129.08	29.21
37103	ELVERTA1	69	1	1	165.82	37.69
37105	FOOTHIL1	69	1	1	154.51	34.86
37106	HEDGE 1	69	1	1	160.17	36.74
37107	HEDGE 3	69	1	1	149.8	33.92
37108	HURLEY 1	69	1	1	167.7	37.69
37109	HURLEY 2	69	1	1	165.82	37.69
37111	LAKE 1	69	1	1	152.63	34.86
37114	ORANGVL1	69	1	1	147.92	33.92
37115	ORANGVL2	69	1	1	149.8	33.92
37116	POCKET 1	69	1	1	158.28	35.8
37117	POCKET 2	69	1	1	177.13	40.51
37121	ELKGROV2	69	1	1	147.92	33.92
37122	LAKE 2	69	1	1	102.7	23.55
37123	NATOMAS	69	1	1	161.11	36.74
37124	CORDOVA	69	1	1	135.88	30.55
37125	NATOMAS2	69	1	1	141.32	32.03
37126	FRANKLIN	69	1	1	114.94	26.38
37202	MID CTY1	22	1	1	14	3
37203	MID CTY2	22	2	1	14	3
37204	NORTHCT1	22	1	1	35.8	8.48
37205	NORTHCT2	22	3	1	32.98	7.54
37208	STA. D 1	22	1	1	34.76	8.43
37209	STA. D 2	22	2	1	9.8	2.2
37210	MID CTY3	22	3	1	16.96	3.77
37212	MID CTY4	22	4	1	16.96	3.77
37214	EASTCTY1	22	1	1	19.79	4.71
37215	EASTCTY2	22	2	1	19.79	4.71
37216	SO CITY1	22	1	1	20.73	4.71
37217	SO CITY2	22	3	1	30.15	6.6
37320	UCDMC	12.5	1	1	12	3
37401	STA. A 1	12	1	1	15	3
37402	STA. A 2	12	2	1	15	3
37403	STA. A 3	12	3	1	15	3
37407	STA. B 1	12	1	1	11.31	2.83
37408	STA. B 2	12	2	1	23.55	5.65
37571	SHAST LK	115	1	1	19.21	3.9
37572	ROSEVLL1	60	1	1	96.22	13.71
37573	ROSEVLL2	60	1	1	96.22	13.71
37574	FIDDYMNT	60	1	1	98.78	14.08
37574	FIDDYMNT	60	2	1	98.78	14.08
37582	TRACY YG	69	1	1	20.5	4.16
37583	TRACYPP1	13.8	P1	1	13.5	2.7

BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD
33377	EMRLD LE	60	1	1	5.54	1.26
33379	WATRSLED	60	1	1	0.7	0.32
33381	GLENWOOD	60	1	1	10.42	2.37
33381	GLENWOOD	60	2	1	7.2	1.64
33381	GLENWOOD	60	3	1	9.03	2.06
33383	MENLO	60	1	1	4.91	1.12
33383	MENLO	60	3	1	14.12	3.21
33386	STANFORD	60	SG	1	30.83	6.26
33387	WOODSIDE	60	1	1	12.61	2.87
33387	WOODSIDE	60	2	1	10.53	2.4
33387	WOODSIDE	60	3	1	10.53	2.4
33390	MENLO G	60	2	1	5.32	1.21
33390	MENLO G	60	4	1	14.35	3.27
33467	SFAERP	13.8	1	1	1.8	1.12
33468	SRI INTL	9.11	1	1	4.12	0.84
33469	OX_MTN	4.16	SG	0	0.7	0.14
33502	FROGTOWN	115	1	1	11.04	0.49
33502	FROGTOWN	115	2	1	8.25	0.37
33506	STANISLS	115	1	1	10.98	0.49
33510	AVENA	115	1	1	13.38	0.6
33514	MANTECA	115	5	1	26.77	1.2
33514	MANTECA	115	6	1	23.44	1.05
33514	MANTECA	115	7	1	31.15	1.4
33514	MANTECA	115	8	1	25.72	1.15
33518	VIERRA	115	1	1	42.53	1.91
33520	RIPON	115	2	1	28.28	1.27
33524	CL AMMNA	115	1	1	1.68	1.22
33529	LAMMERS	115	1	1	35.18	1.57
33529	LAMMERS	115	2	1	11.9	0.54
33532	OI GLASS	115	1	1	11.34	7.03
33534	SAFEWAY	115	1	1	5.38	2.76
33542	LEPRINO	115	1	1	3.67	2.37
33544	ELLS GTY	115	1	1	3.62	1.86
33547	AEC_300	115	1	1	3	9.54
33548	TRACY	115	1	1	27.48	1.23
33548	TRACY	115	2	1	31.06	1.39
33548	TRACY	115	3	1	30.63	1.37
33553	STKTON B	115	3	1	28.27	1.27
33555	STKTON A	115	4	1	30.11	1.35
33555	STKTON A	115	5	1	20.16	0.9
33564	LOCKFORD	115	4	1	30.47	1.36
33604	WEST PNT	60	1	1	4.47	0.2
33604	WEST PNT	60	3	1	4.2	0.19
33607	ELECTRAJ	60	1	1	9.73	0.44
33608	PNE GRVE	60	1	1	8.13	0.36
33608	PNE GRVE	60	2	1	10.36	0.46
33612	N BRANCH	60	1	1	5.5	0.24
33614	CAL CMNT	60	1	1	12.33	0.55
33616	MARTELL	60	1	1	18.4	0.83
33618	OLETA	60	1	1	4.11	0.19
33618	OLETA	60	2	1	3.66	0.16

BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD
37583	TRACYPP1	13.8	P2	1	13.5	2.7
37583	TRACYPP1	13.8	P3	1	13.5	2.7
37584	TRACYPP2	13.8	P4	1	13.5	2.7
37584	TRACYPP2	13.8	P5	1	13.5	2.7
37584	TRACYPP2	13.8	P6	1	13.5	2.7
37648	KNAUF	115	1	1	15.51	3.15
37649	LLNLAB	115	1	1	75.93	15.64
37650	MTHOUSE	69	1	1	10.51	1.19
37905	AIRPORT1	12.5	1	1	11.71	5.34
37906	AIRPORT2	12.5	1	1	12.07	5.5
37908	BELT1	12.5	1	1	12.42	5.66
37909	BELT2	12.5	1	0	0	0
37911	CANBY1	12.5	1	1	15.28	7.45
37912	CANBY2	12.5	1	1	17.7	8.06
37913	CANBY3	12.5	1	1	16.89	7.69
37915	CLEAR1	12.5	1	0	0	0
37917	COLLEGE1	12.5	1	1	16.53	7.53
37918	COLLEGE2	12.5	1	0	0	0
37920	EASTRDG1	12.5	1	1	18.86	8.6
37921	EASTRDG2	12.5	1	0	0	0
37923	EUREKA1	12.5	1	1	15.01	6.85
37924	EUREKA2	12.5	1	0	0	0
37926	GOODWAT1	12.5	1	0	0	0
37927	GOODWAT2	12.5	1	0	0	0
37929	MOORE1	12.5	1	1	14.21	6.48
37930	MOORE2	12.5	1	1	12.24	5.58
37932	OASIS1	12.5	1	1	0	6.05
37933	OASIS2	12.5	1	0	0	0
37935	OREGON1	12.5	1	1	17.25	7.86
37936	OREGON2	12.5	1	0	0	0
37938	QUARTZ1	12.5	1	0	0	0
37939	QUARTZ2	12.5	1	0	0	0
37946	STILLW1	12.5	1	0	0	0
37949	SULP1	12.5	1	1	22.25	10.14
37950	SULP2	12.5	1	1	15.28	6.96
37952	TEXASSP1	12.5	1	1	8.67	3.95
37954	TIERRA1	12.5	1	0	0	0
37956	WALDON1	12.5	1	1	13.94	6.35
37957	WALDON2	12.5	1	1	20.11	9.16
37959	CANBY4	12.8	1	1	13.94	6.35
37961	BSNS P1	115	1	1	5	1
37962	BSNS P2	115	1	1	0	0
38020	CITY UKH	115	1	1	34.65	13.01
38022	CARTWRT	115	1	1	23.04	4.31
38022	CARTWRT	115	2	1	23.04	4.31
38024	JENNY	115	1	1	33.37	6.27
38028	PLO ALTO	115	1	1	68.45	24.87
38028	PLO ALTO	115	2	1	68.45	24.87
38028	PLO ALTO	115	3	1	68.45	24.87
38030	LMPC-CTY	115	1	1	27.47	4.98
38050	HELDSBRG	60	1	1	21.97	5.07

BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD	BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD
33620	AM FORST	60	1	1	1.9	1.52	38052	BIGGS	60	1	1	4.28	1.6
33622	CLAY	60	1	1	12.99	0.58	38054	GRIDLEY	60	1	1	11.93	1.89
33622	CLAY	60	2	1	3.8	0.17	38060	INDUSTR	60	1	1	137.3	31.9
33624	INE PRSN	60	1	1	11.91	0.54	38131	PSQIUNCY	69	1	1	1.37	-0.09
33640	CORRAL	60	1	1	12.01	0.54	38132	MOHAWK	69	1	1	2.74	-0.18
33640	CORRAL	60	2	1	15.81	0.71	38133	GRAEGL	69	1	1	0	0
33642	LINDEN	60	1	1	17.58	0.79	38134	GRAEGL69	69	1	1	5.03	-0.37
33646	MORMON	60	1	1	17.87	0.8	38135	SIERVLTP	69	1	1	0	0
33648	DANA	60	1	1	1.68	0.34	38136	MARBLE	69	1	1	0	0
33650	WEBER 1	60	3	1	20.35	0.91	38137	SIERVL69	69	1	1	1.37	-0.09
33650	WEBER 1	60	4	1	10.5	0.47	38138	BCKWRTH	69	1	1	1.37	-0.37
33656	CARGILL	60	1	1	1.88	1.87	38139	CHILCT	69	1	1	2.28	-0.18
33660	JM	60	1	1	5.18	2.05	38140	HERLNG	69	1	1	0	0
33664	LIPTON	60	1	1	3.53	2.56	38141	HRLNG12	69	1	1	2.74	-0.18
33666	CHEROKEE	60	1	1	9.8	0.44	38142	PRISON	69	1	1	0	0
33668	WATERLOO	60	2	1	10.63	0.48	38143	NUPRISON	69	1	1	7.31	1.28
33670	STCKTN A	60	1	1	1.72	0.07	38145	EDGMNT	69	1	1	1.83	-0.46
33670	STCKTN A	60	2	1	1.14	0.05	38146	LEAVIT1	69	1	1	2.74	-0.73
33673	CAL CEDA	60	1	1	1.49	1.24	38147	LEAVIT2	69	1	1	3.66	0.27
33676	E.STCKTN	60	1	1	5.88	0.26	38148	NCPAGEN	69	1	1	0	0
33676	E.STCKTN	60	3	1	13.16	0.59	38149	MILFDREG	69	1	1	1.83	-0.18
33678	MONARCH	60	2	1	3.85	0.17	38150	LEAVITGN	13.8	1	1	0	0
33680	OAK PARK	60	1	1	2.29	0.11	38206	COTTLE A	230	1	1	20.21	0.91
33682	SUMIDEN	60	1	1	3.71	2.59	38208	COTTLE B	230	2	1	23.24	1.04
33684	HARDING	60	1	1	4.41	0.19	38228	SNTA CRZ	115	1	1	29.42	1.37
33684	HARDING	60	2	1	4.9	0.22	38238	HUNTWSTP	115	1	1	8.76	1.84
33686	STCKTNAR	60	1	1	3.84	0.17	38240	HERSHEY	115	1	1	7.01	3.67
33687	STCKTN WW	60	1	1	3.61	0.9	38250	PARKER	69	1	1	21.33	9.76
33690	ROGH-RDY	60	1	1	11.32	0.5	38252	STANDFRD	69	1	1	19.96	7.59
33692	CHANNEL	60	1	1	7.95	0.36	38254	FINNEY	69	1	1	9.61	1.84
33698	FRNCH CP	60	1	1	15.48	0.69	38256	ROSEMORE	69	1	1	13.05	4.33
33698	FRNCH CP	60	2	1	15.01	0.67	38258	8TH ST	69	1	1	22.06	2.68
33702	GRONMYER	60	1	1	4.2	0.96	38260	PRESCOTT	69	1	1	25.63	6.28
33704	STAGG	60	2	1	17.93	0.8	38262	BRGGSMRE	69	1	1	37.14	2.04
33704	STAGG	60	3	1	17.93	0.8	38264	ENSLN	69	1	1	38.01	1.94
33706	CNTRY CB	60	1	1	5.65	0.25	38266	WOODROW	69	1	1	27.31	5.72
33706	CNTRY CB	60	2	1	9.25	0.41	38268	12TH ST	69	1	1	37.82	10.83
33706	CNTRY CB	60	3	1	10.26	0.46	38270	SNTA RSA	69	1	1	20.04	1.04
33706	CNTRY CB	60	4	1	15.72	0.71	38272	LAPHAM	69	1	1	22.74	1.04
33708	UOP	60	1	1	5.99	4.18	38274	MARIPOS1	69	1	1	23.22	8.38
33712	WESTLANE	60	1	1	16.92	0.75	38276	CLAUS	69	1	1	36.96	10.83
33714	HAMMER	60	1	1	18.03	0.8	38278	OAKDALE	69	1	1	31.05	1.13
33714	HAMMER	60	2	1	17.28	0.77	38280	SYLVAN	69	1	1	38.04	9.76
33714	HAMMER	60	3	1	18.86	0.84	38282	REINWAY	69	1	1	23.11	3.63
33718	METTLER	60	3	1	9.12	0.41	38284	LINCOLN	69	1	1	31.52	3.28
33720	TERMNOUS	60	1	1	5.1	0.23	38290	PARADSE	69	1	1	28.41	2.09
33721	SEBASTIA	60	1	1	2.82	2.12	38292	SISK	69	1	1	34.15	5.52
33723	NEW HOPE	60	1	1	2.89	0.13	38294	POUST	69	1	1	14.71	1.68
33726	VICTOR	60	1	1	0.22	0.01	38300	BNDS FLT	69	1	1	0	0
33726	VICTOR	60	2	1	3.57	0.16	38302	ROSELLE	69	1	1	24.69	4.82
33727	MONDAVI	60	1	1	2.48	2.06	38304	LADD	69	1	1	9.45	2.04

BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD	BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD
33728	LODI	60	1	1	0.43	0.02	38305	BANGS	69	1	1	21.64	2.12
33728	LODI	60	2	1	20.37	0.91	38307	KIERNAN	69	1	1	12.61	6.52
33732	COLONY	60	2	1	4.91	0.22	38308	STOCK AV	69	1	1	14.71	3.13
33740	MSHR 60V	60	1	1	19.3	0.86	38310	FOXRIVER	69	1	1	5.53	2.72
33740	MSHR 60V	60	2	1	32.15	1.44	38311	MINNIEAR	69	1	1	13.45	2.72
33746	LOUISE	60	1	1	1.37	1.1	38312	CLOUGH	69	1	1	10.6	1.04
33750	CALVO	60	1	1	1.7	1.01	38313	CLARIBEL	69	1	1	7	2.18
33758	BANTA	60	1	1	6.74	0.3	38314	STODDARD	69	1	1	27.73	6.37
33762	LYOTH-SP	60	1	1	3	0.68	38315	CRABTREE	69	1	1	4.2	0
33764	CARBONA	60	1	1	23.19	1.04	38319	SHELL_LB	69	1	1	19.65	3.61
33764	CARBONA	60	2	1	7.18	0.32	38320	HAMMET	69	1	1	8.93	1.7
33768	BNTA CRB	60	1	1	3.34	0.76	38321	RICE_M	69	1	1	9.45	2.65
33770	HERDLYN	60	1	1	5.84	0.26	38323	WTP	69	1	1	12.51	3.63
33772	B.BTHNY-	60	1	1	1.94	0.44	38330	AMERICN	69	1	1	5.25	1.38
33775	TOSCO-PP	60	1	1	0.98	0.89	38345	LANGWRTH	115	1	1	9.03	0
33776	SOUTH BY	60	1	1	23	0	38346	HERSHEYF	9.11	1	0	0.5	0
33778	MDL_RIVR	60	1	1	4.84	0.22	38412	ROGERS-T	115	1	1	29.49	0.01
33780	MCD_ISLE	60	1	1	5.76	0.82	38421	CASTLEME	115	1	1	15.17	0
33782	WEST SDE	60	1	1	1.9	0.4	38422	COOPER	115	1	1	67.08	0.1
33800	SALT SPS	11	1	1	11.76	0.53	38426	PINEER	115	1	1	26	0
33801	STAGG_5	21	5	1	57.13	2.56	38428	CRTEZ	115	1	1	18	0.01
33803	STAGG_6	21	6	1	50.05	2.24	38430	HILMAR	115	1	1	32.69	0.02
33812	ELECTRA	13.8	1	1	14.2	2.49	38434	MARSHALL	115	1	1	34.86	0.02
33814	CPC STCN	12.47	SG	1	6.19	1.41	38438	TAYLR	115	1	1	24.87	0.01
33822	TIGR CRK	11	1	1	0.2	0	38442	AUGUST	115	1	1	21.58	0.01
33836	USWP_#4	9.11	SG	1	0.34	0.21	38452	ROEDING	69	1	1	35.99	0.02
33838	USWP_#3	9.11	SG	1	0.5	0.2	38454	INDSTRIL	69	1	1	29.3	0.01
33840	FLOWD3-6	9.11	SG	1	0.7	0.34	38458	COLLEGE	69	1	1	17.71	0.01
33906	SPRNG GP	115	1	1	1.88	0.09	38460	CERES	69	1	1	35.05	0.02
33914	MI-WUK	115	1	1	8.83	0.4	38462	TUOLUMNE	69	1	1	0.9	0
33916	CURTISS	115	1	1	35.15	1.57	38466	HAWKINS	69	1	1	14.13	0.01
33916	CURTISS	115	2	1	16.59	0.75	38468	GILSTRAP	69	1	1	38.63	0.02
33917	FBERBORD	115	SG	1	2.25	0.51	38470	HUGHSON	115	1	1	30.43	0.02
33922	R.TRACK	115	1	1	12.51	0.56	38472	GEER	69	1	1	31.47	0.02
33928	CH.STN	115	SP	1	2.81	0.64	38474	F STREET	69	1	1	18.84	0.01
33930	PEORIA	115	1	1	19.37	0.87	38476	MONTPELR	69	1	1	12.53	0.01
33944	RVRBANK	115	1	1	23.46	1.05	38478	WESTPORT	69	1	1	16.77	0.01
33944	RVRBANK	115	2	1	21.02	0.94	38480	WALNUT	69	1	1	0	0
33952	VALLY HM	115	1	1	3.92	0.17	38482	FAIRGRND	69	1	1	30.72	0.02
33966	MILLER	115	1	1	3.55	1.72	38494	CROWSLND	69	1	1	26.48	0.01
33968	TEICHERT	115	1	1	7.44	6.56	38499	STURLOCK	69	1	1	21.86	0.01
33970	INGRM C.	115	1	1	3.6	1.74	38501	COMMONS	69	1	1	15.26	0.01
34000	WESTLEY	60	1	1	9.04	0.4	38510	S-SHORES	69	1	1	4.05	0
34000	WESTLEY	60	3	1	2.92	0.13	38512	DIABLO-G	115	1	1	5.84	0
34014	NEWMAN	60	1	1	8.67	0.39	38518	NWTURLOK	115	1	1	17.9	0
34014	NEWMAN	60	2	1	6.03	0.27	38564	ALMONDCT	13.8	ss	1	1.69	0.8
34017	CRWS LDG	60	1	1	2.86	0.13	38566	LA GRNLD	69	1	1	1.81	0.16
34020	GUSTINE	60	1	1	7.22	0.32	38570	WEC1-CT	13.8	ss	1	2.49	1.99
34020	GUSTINE	60	2	1	7.9	0.36	38574	WEC2-CT	13.8	ss	1	2.49	1.99
34100	CHWCHLLA	115	1	1	9.01	1.28	38904	DLC	60	1	1	13.98	0.85
34100	CHWCHLLA	115	2	1	12.36	1.76	38904	DLC	60	2	1	13.98	0.85

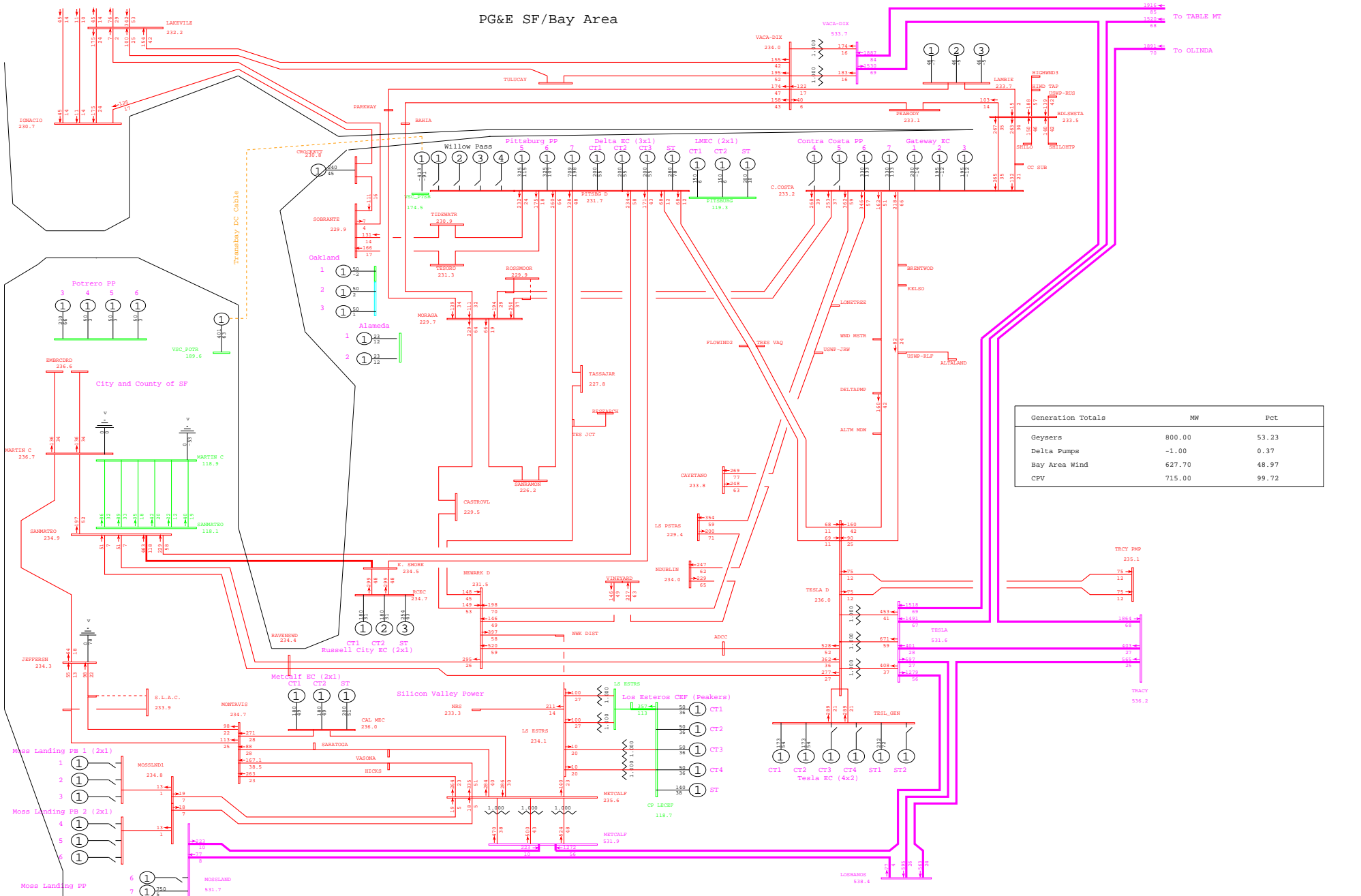
BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD
34102	CERTTEED	115	1	1	9.93	6.93
34104	ATWATER	115	1	1	29.19	4.16
34104	ATWATER	115	2	1	25.56	3.64
34116	LE GRAND	115	1	1	11.94	1.7
34120	SHARON	115	1	1	7.1	4.96
34122	OAKHURST	115	1	1	10.58	1.51
34122	OAKHURST	115	2	1	13.6	1.94
34124	JR WOOD	115	1	1	12.38	10.92

BUS-NO	NAME	KV	ID	ST	PLOAD	QLOAD
38904	DLC	60	3	1	13.98	0.85
99987	MIR_CT_3	16.5	1	1	4	3
99988	MIR_CT_4	16.5	3	1	4	3
99991	MIR_CT1	16.5	1	1	7.5	5.62
99993	MIR_CT2	16.5	3	1	7.5	5.62
99997	MIR_CT_1	16.5	1	1	8	6
99999	MIR_CT_2	16.5	3	1	8	6

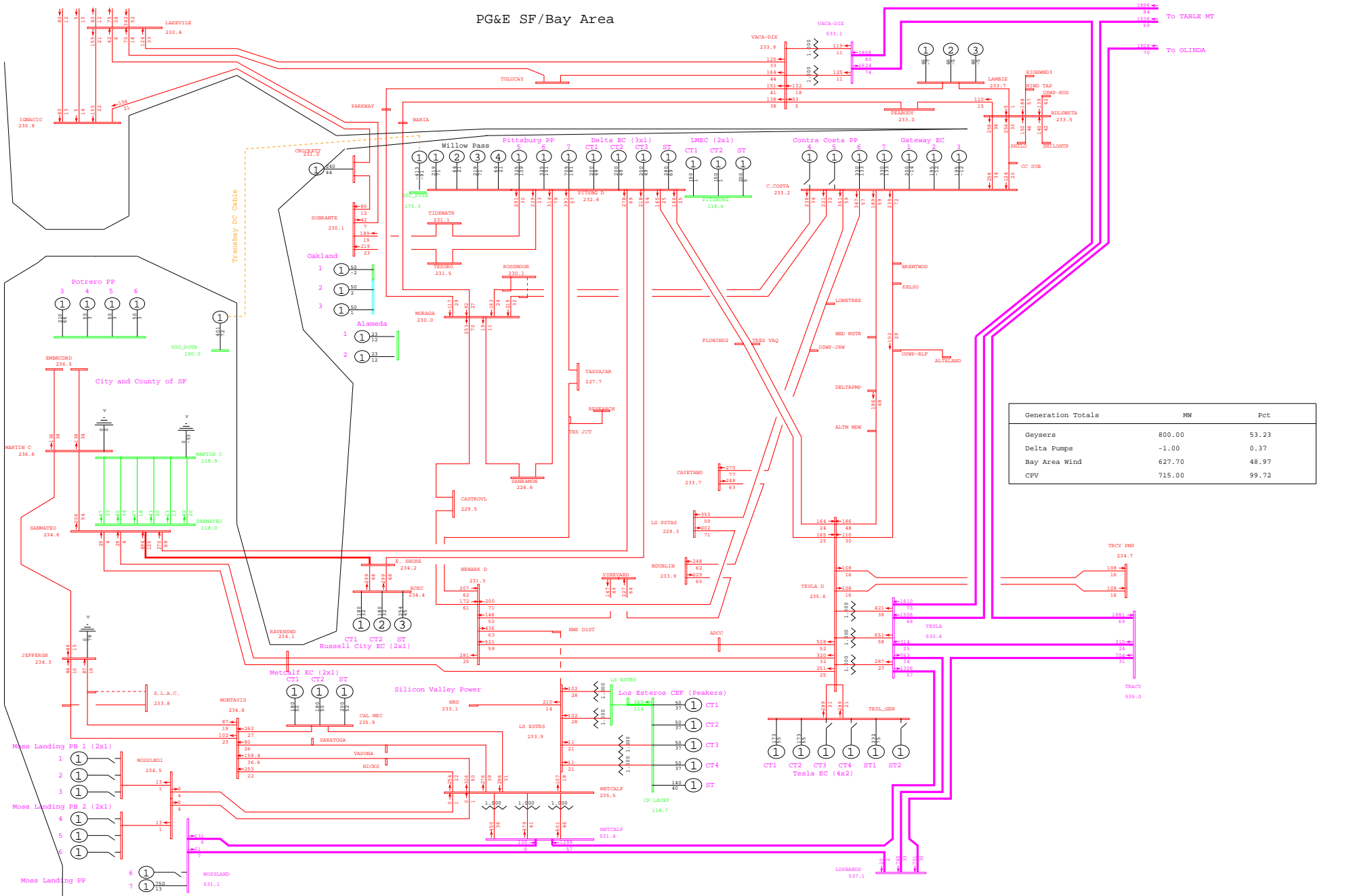
APPENDIX 7 – Power-flow Diagrams of Detailed Results of 2013 Summer Peak Power Flow Studies

The following power-flow diagrams show case MW, % loading and per-unit voltages for power-flow results with and without the WPGS project for both normal all-lines-in-service conditions and under contingencies. Note in an effort to limit file size and to conserve paper, only cases where changes were noted are shown in this report; however, all plots are available upon request.

PG&E SF/Bay Area



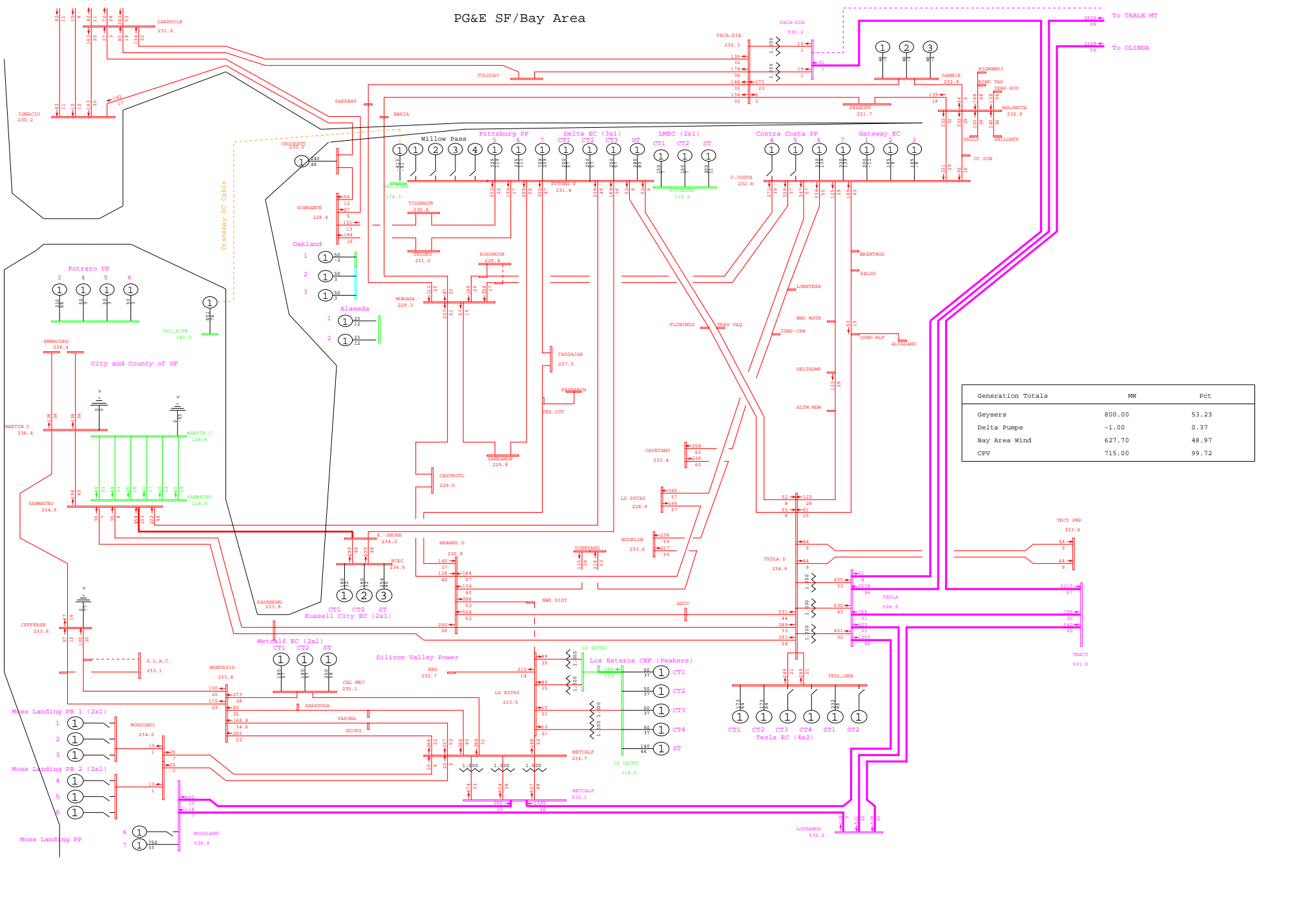
PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:51:21 2008 wlopssv2-2013mrnt_pre_ptsb-101.sav

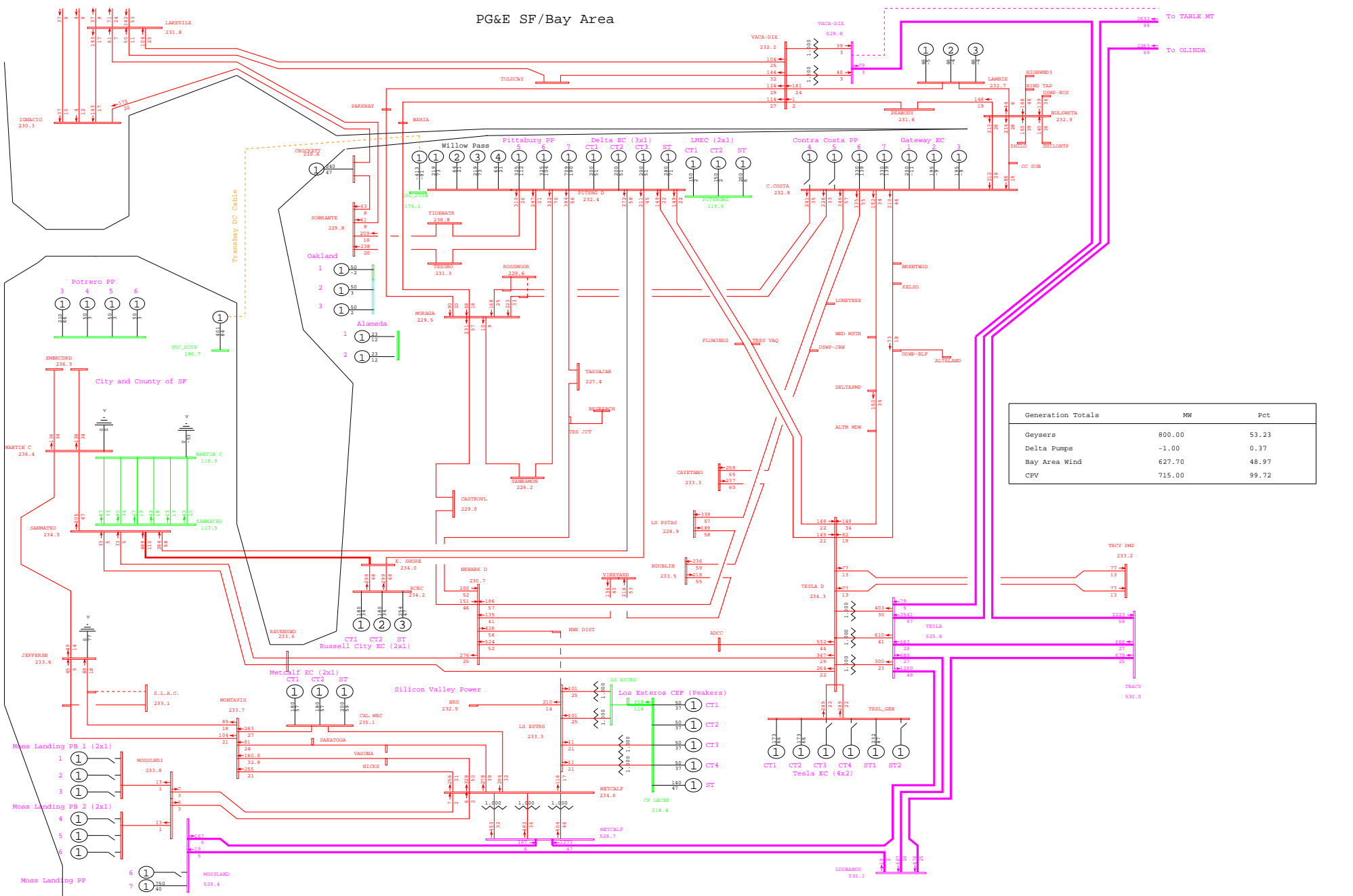


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 TABLE MT-VACA-DIX 500kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 101

MW/% rate
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 Rating = 2

PG&E SF/Bay Area



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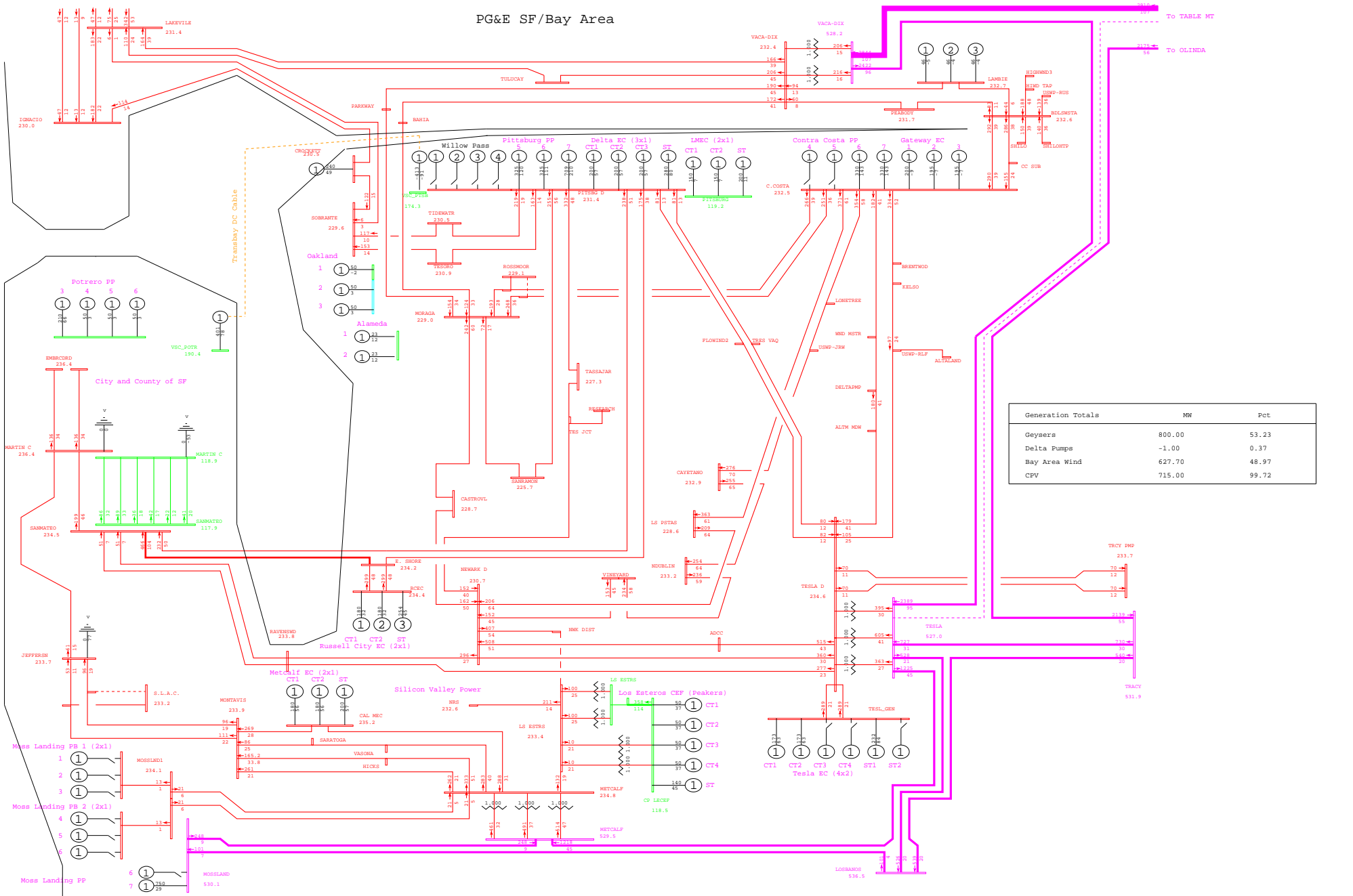


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 TABLE MT-VACA-DIX 500kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 101

MW/% rate
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 Rating = 2

PG&E SF/Bay Area



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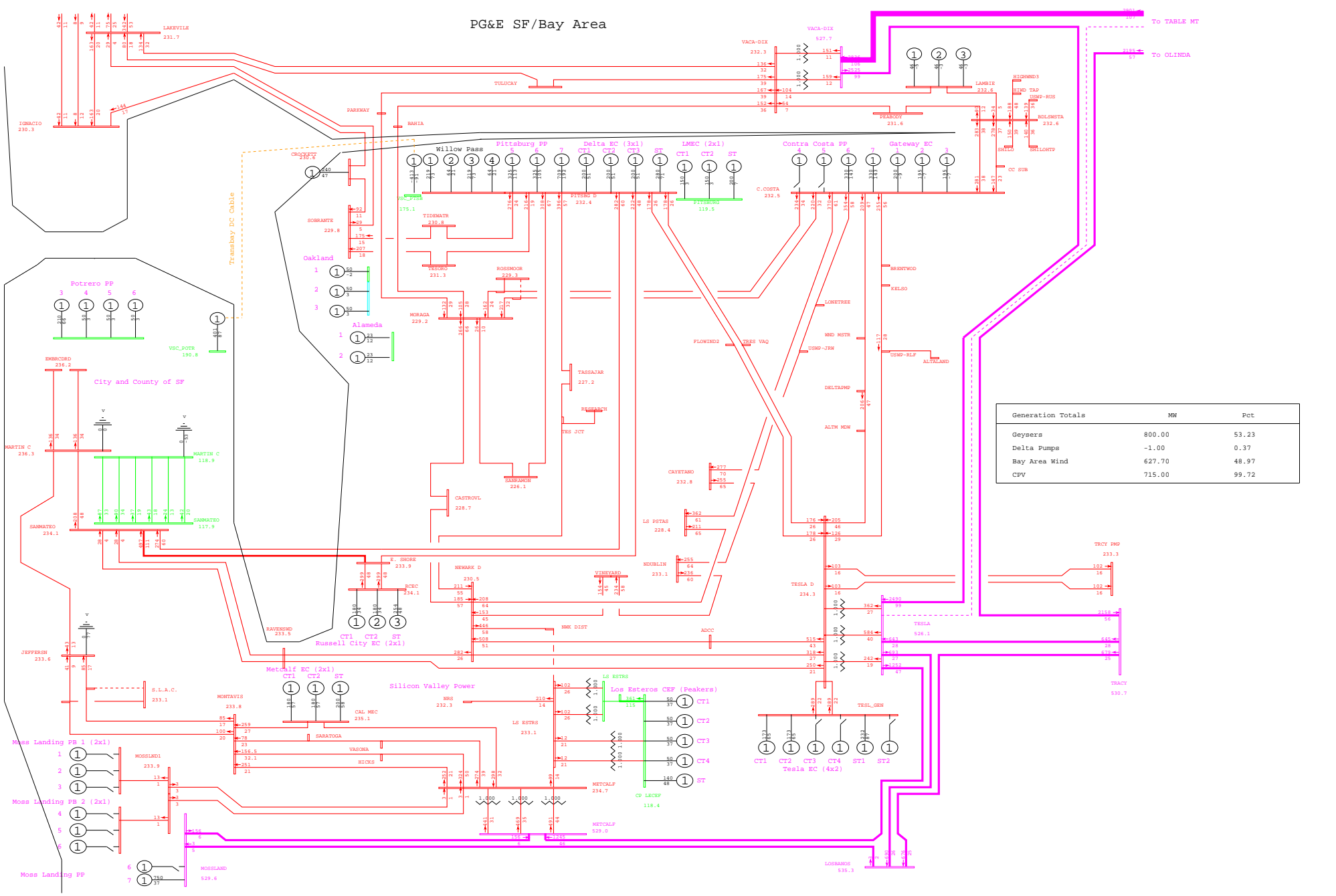


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 TABLE MT-TESLA 500kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 102

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



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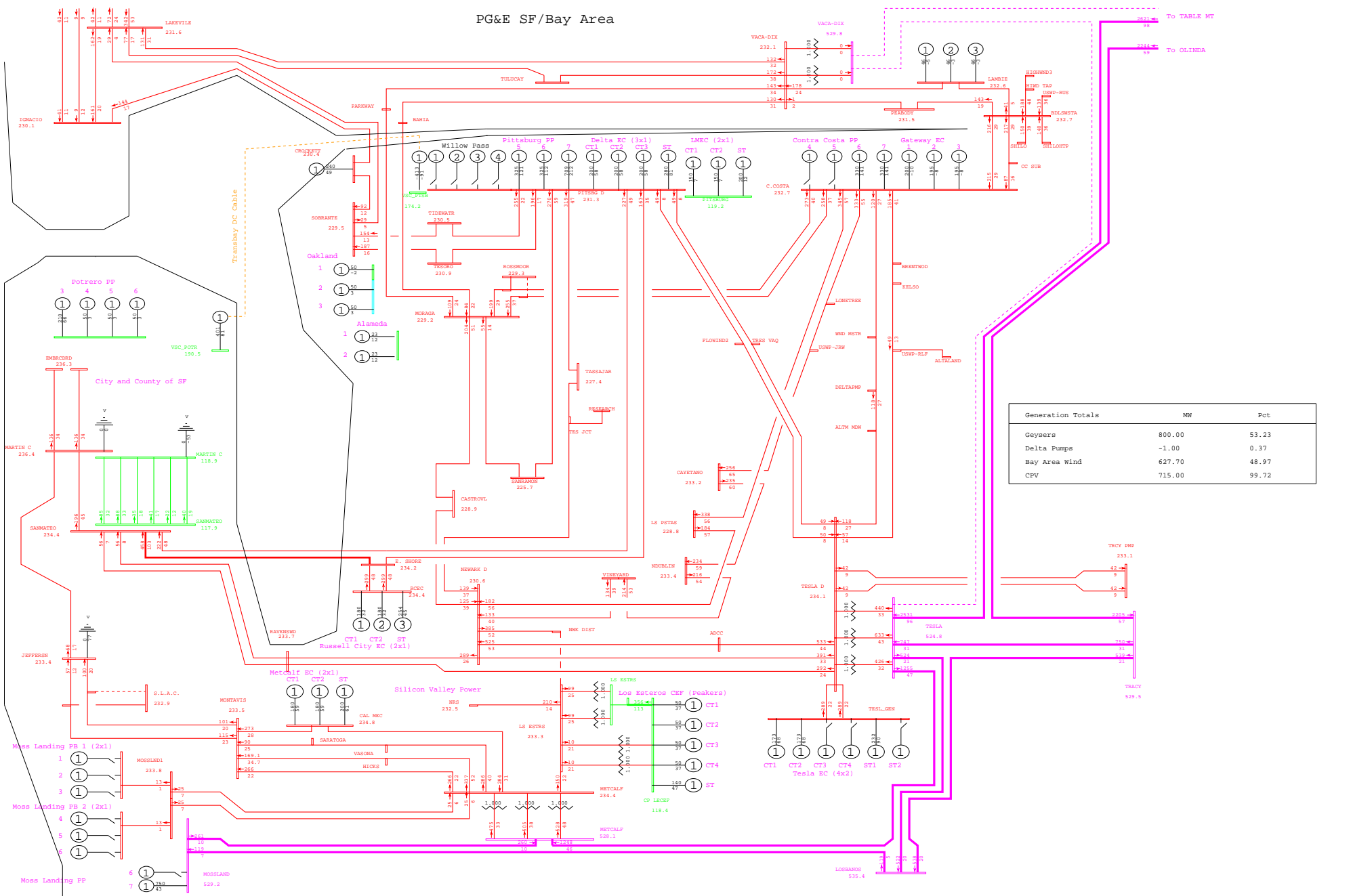


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 TABLE MT-TESLA 500kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 102

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



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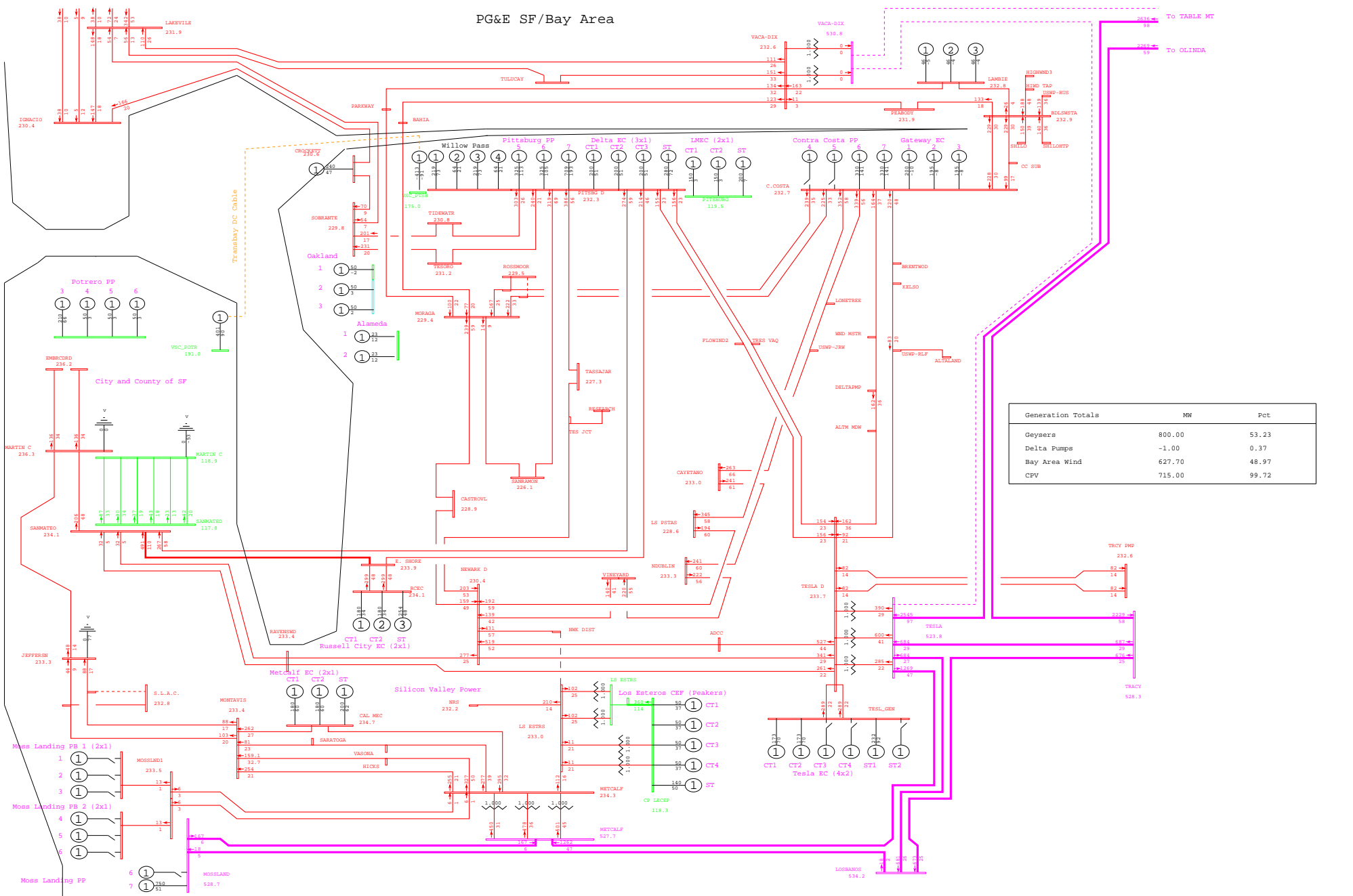


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 VACCA-DIX-TESLA 500kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 103

MW/% rate
 bayarea_2013_PGE_v4.cfw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:48:17 2008 wlopssv2-2013mrnt_pst_ptsb-103.sav

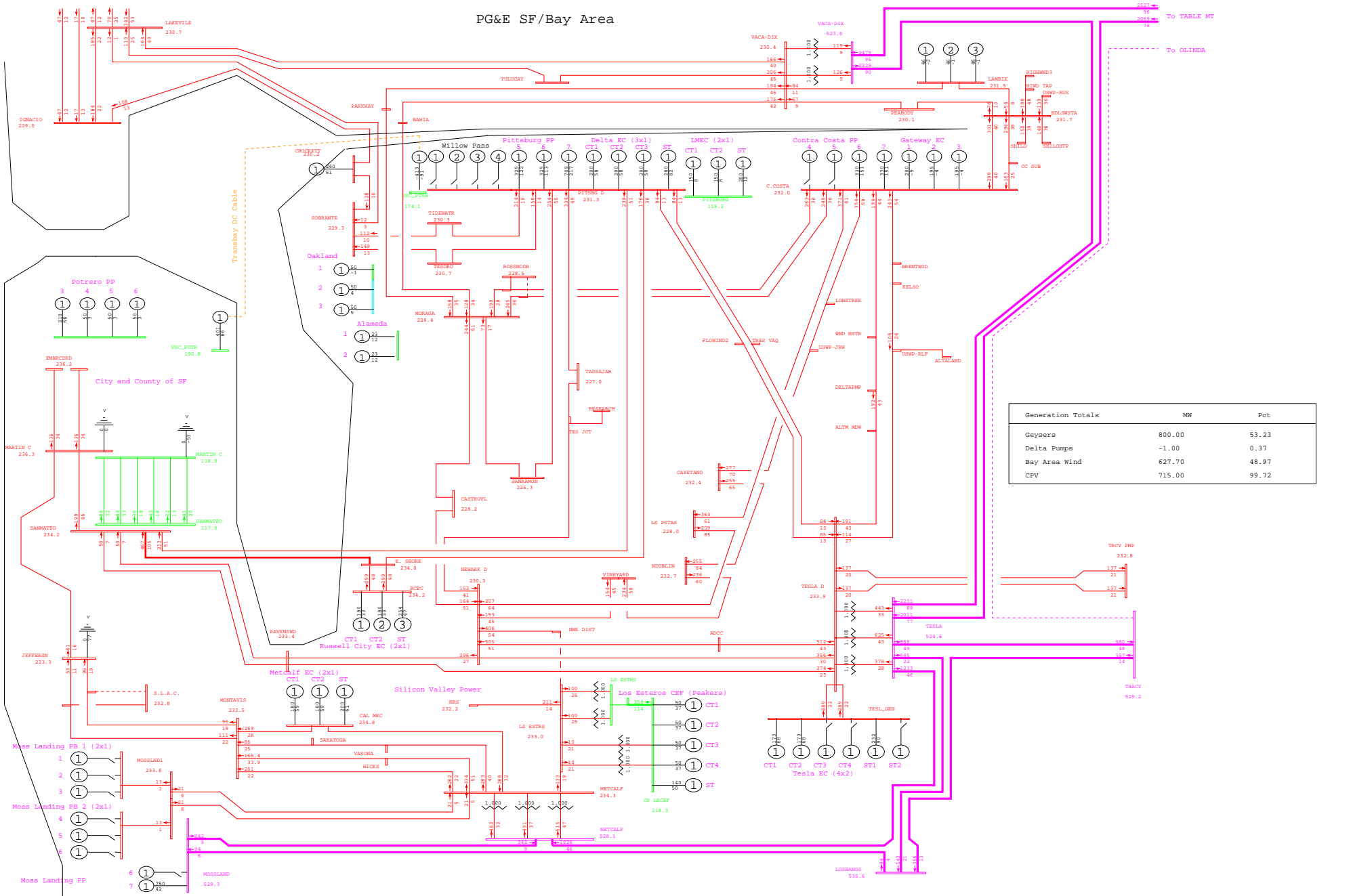


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 VACA-DIX-TESLA 500kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 103

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



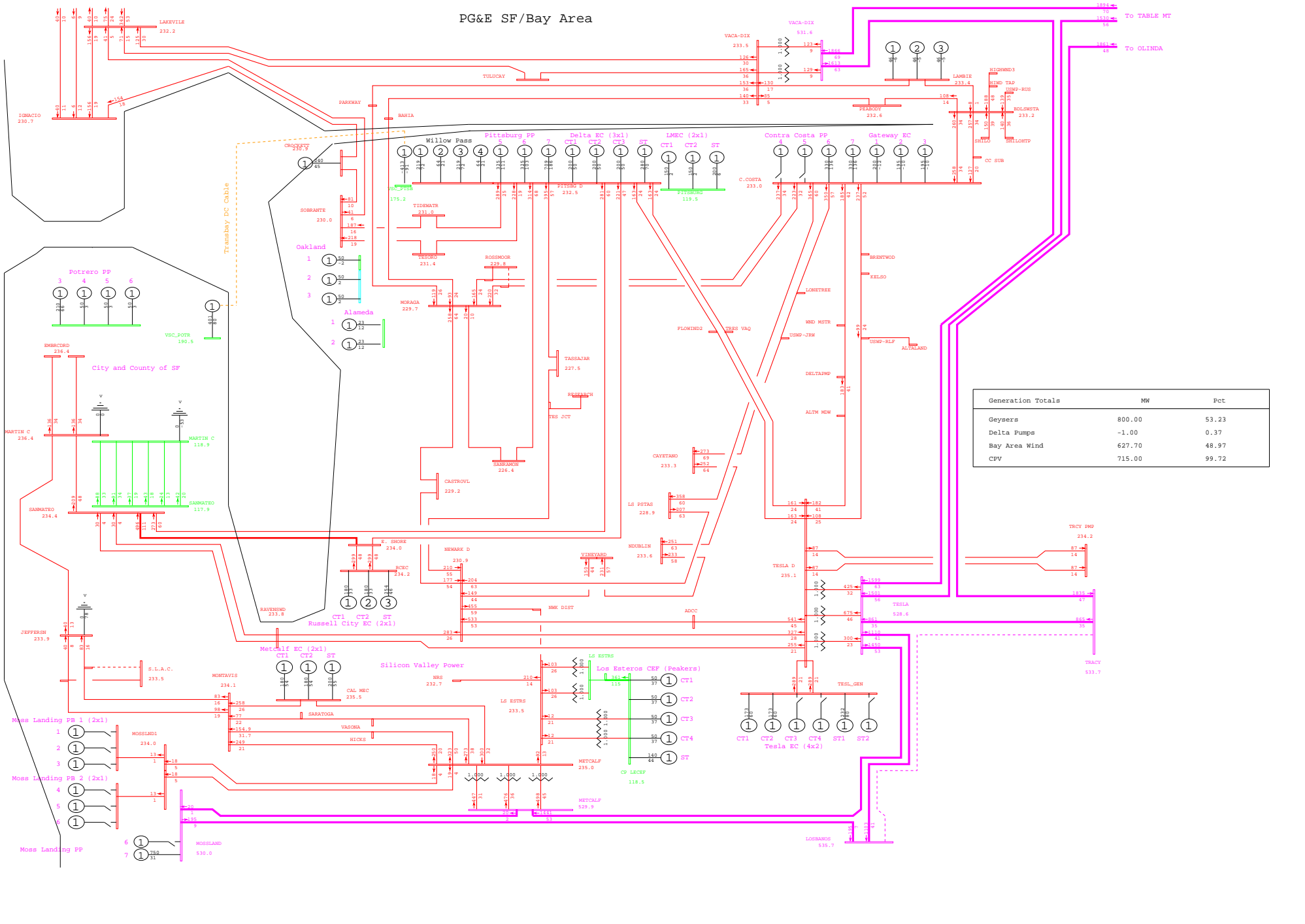
General Electric International, Inc. PSLF Program Fri Sep 26 20:51:25 2008 wlopssv2-2013mrnt_pre_ptsb-104.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 MAXWELL-TRACY 500kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 104
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:48:19 2008 wlopssv2-2013mrnt_pst_ptsb-105.sav

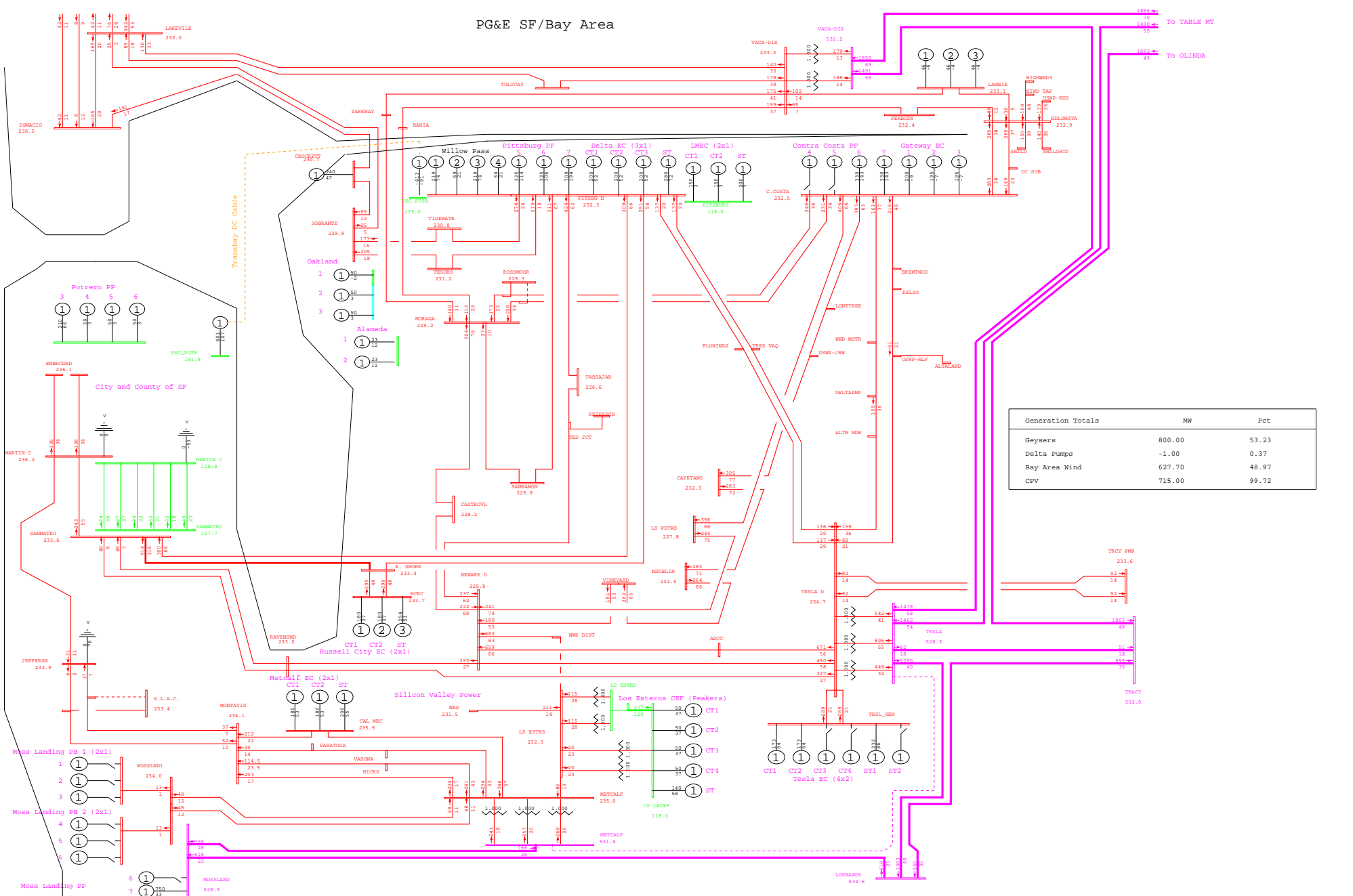


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 TRACY-LOS BANOS 500KV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 105

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



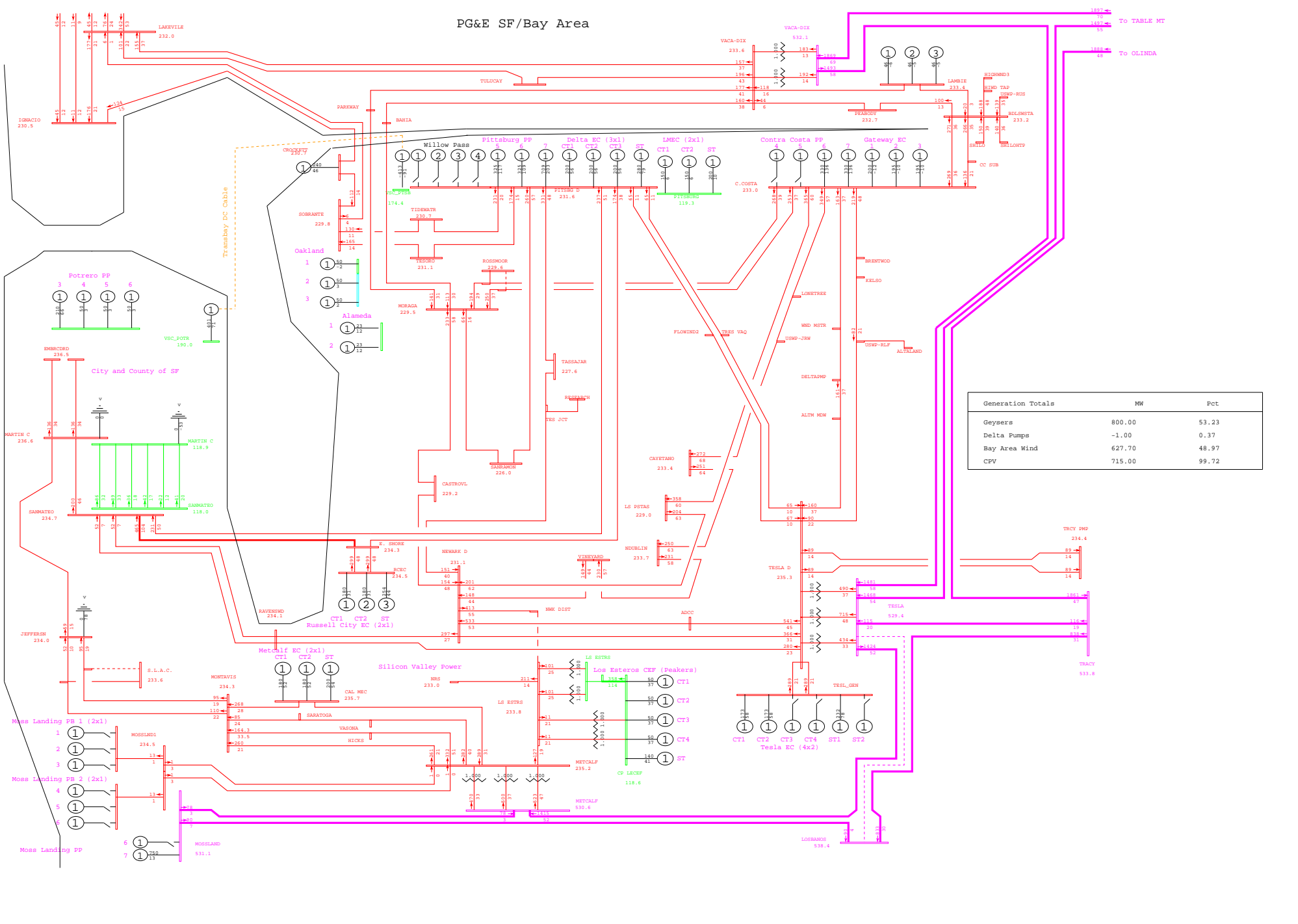
General Electric International, Inc. PSLF Program Fri Sep 26 20:48:21 2008 wlopssv2-2013mrnt_pst_ptsb-107.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 TESLA-METCALF 500kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 107
 MW/% rate
 bayarea_2013_PGE_v4.cfw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:51:29 2008 wlopssv2-2013mrnt_pre_ptsb-108.sav

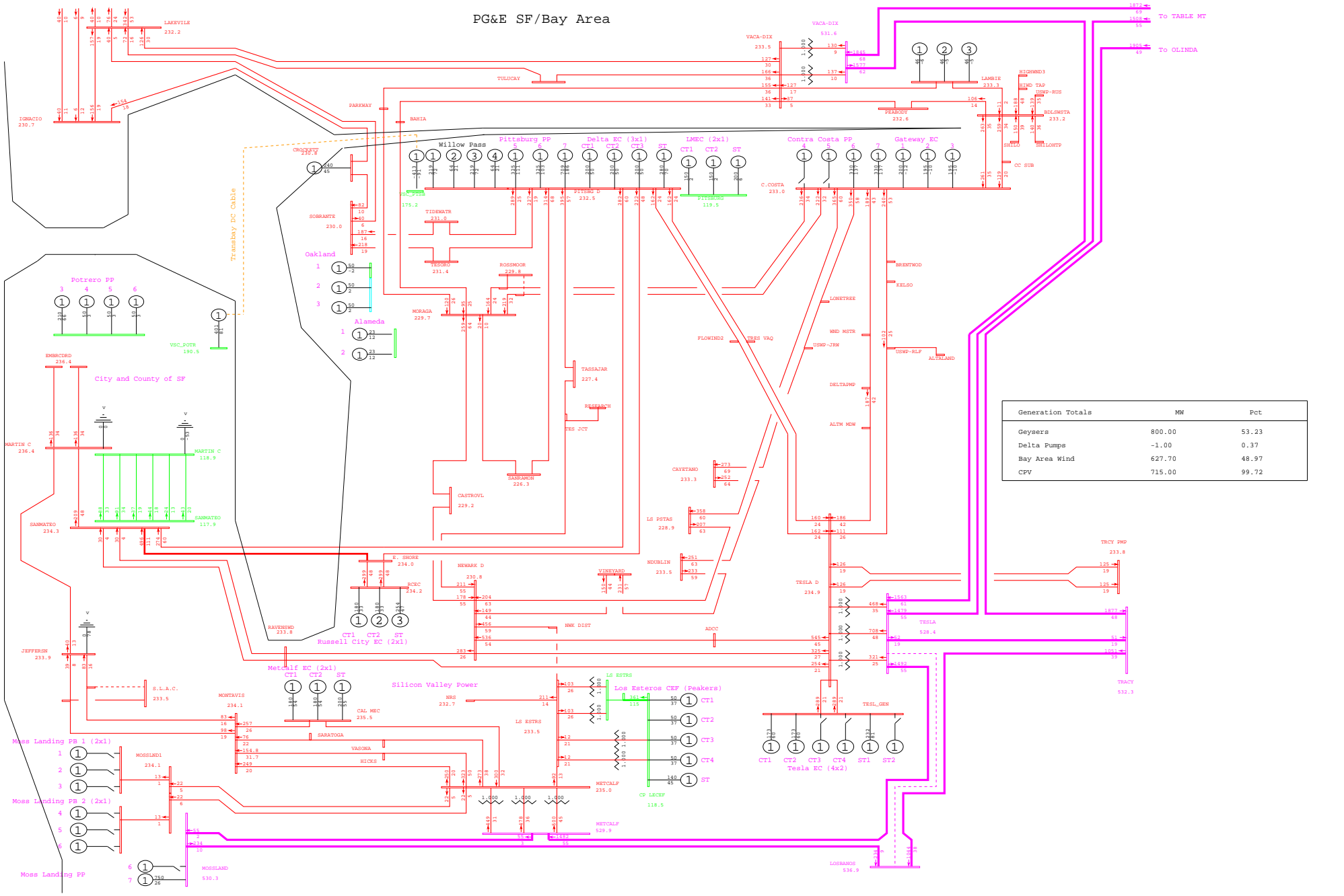


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 TESLA-LOS BANOS 500kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 108

MW/% rate
 bayarea_2013_PGE_v4.0r.w
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:48:22 2008 wlopssv2-2013mrnt_pst_ptsb-108.sav

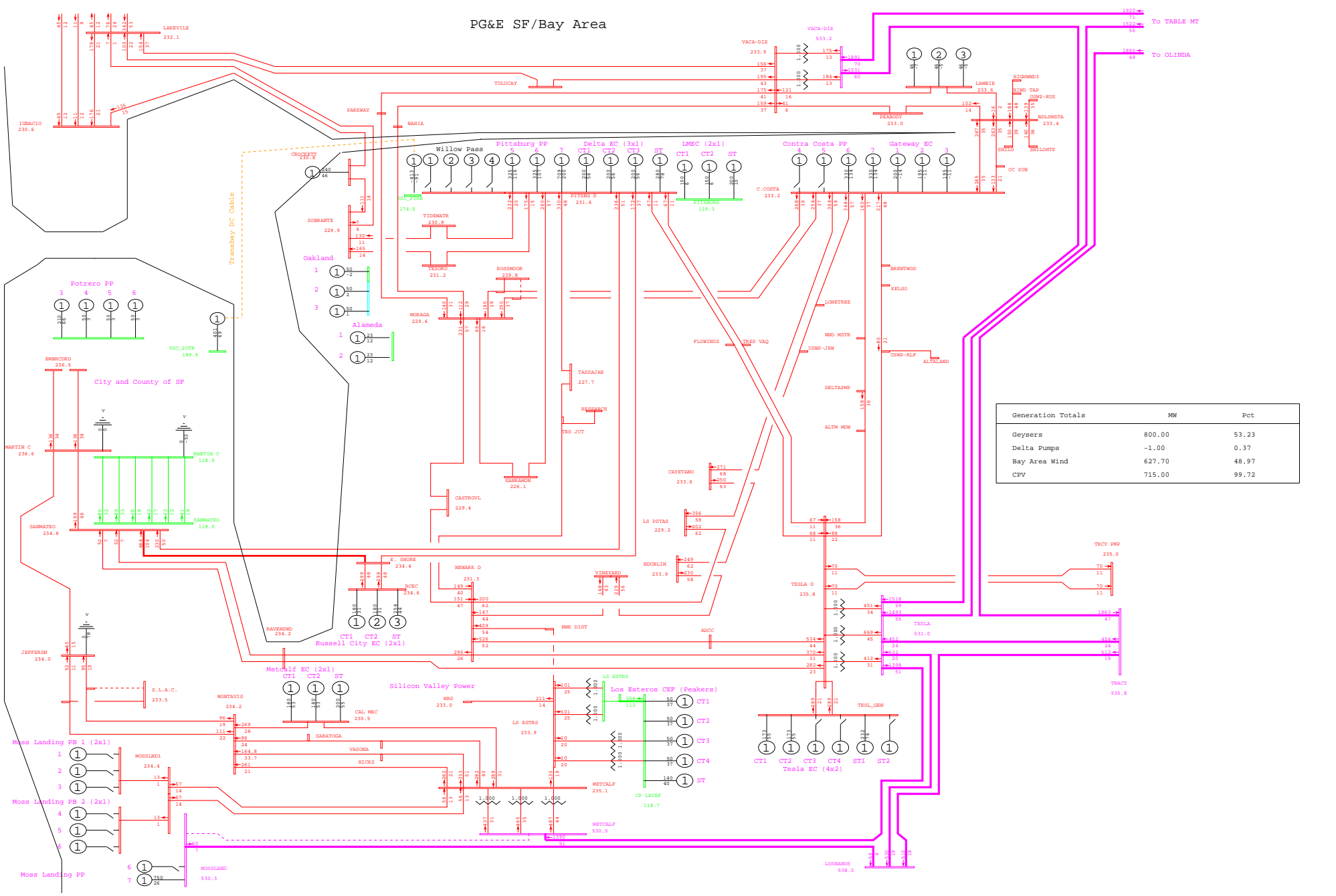


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 TESLA-LOS BANOS 500KV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 108

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:51:30 2008 wlopssv2-2013mrnt_pre_ptsb-109.sav

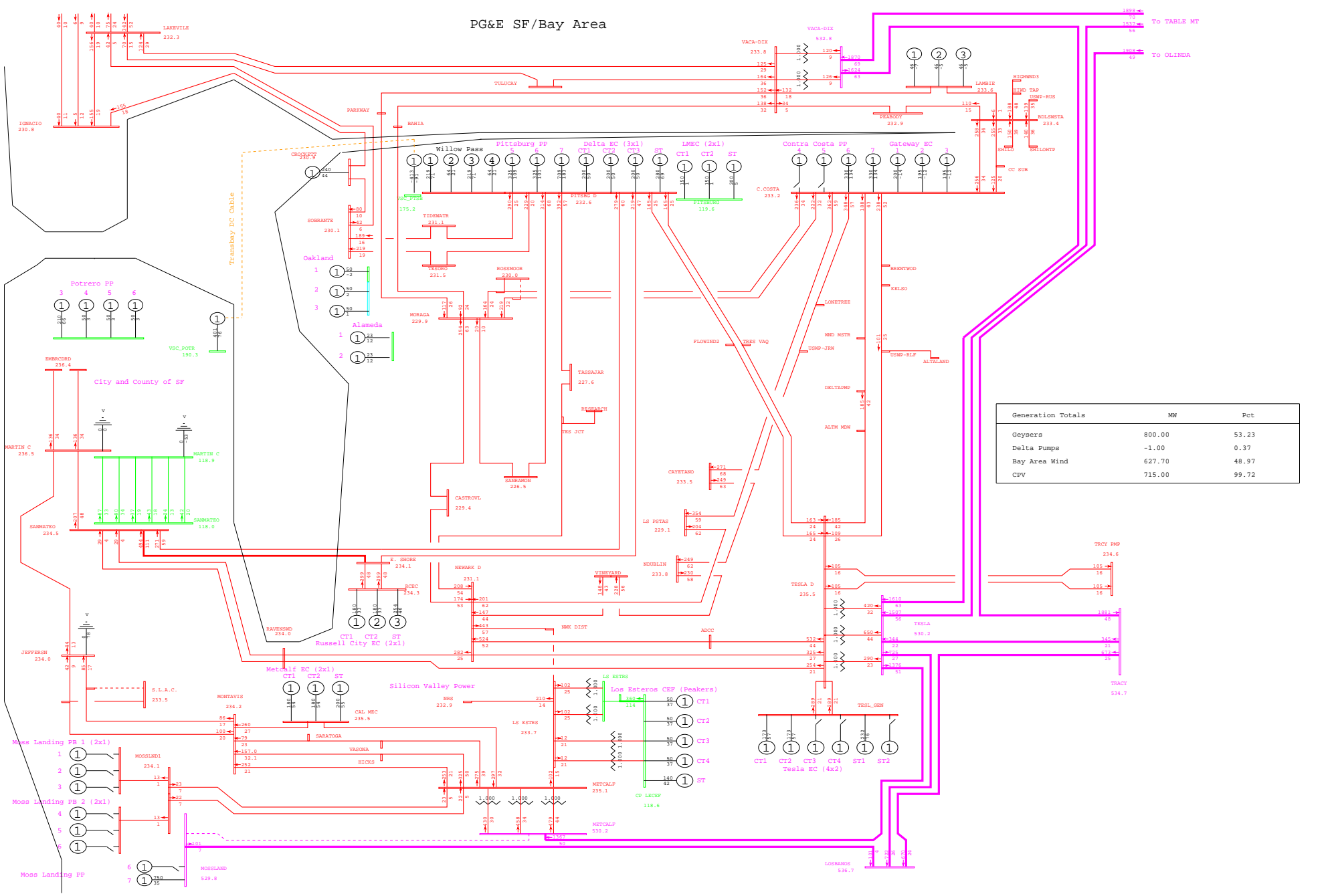


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 METCALF-MOSSLAND 500kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 109

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:48:23 2008 wlopssv2-2013mrnt_pst_ptsb-109.sav

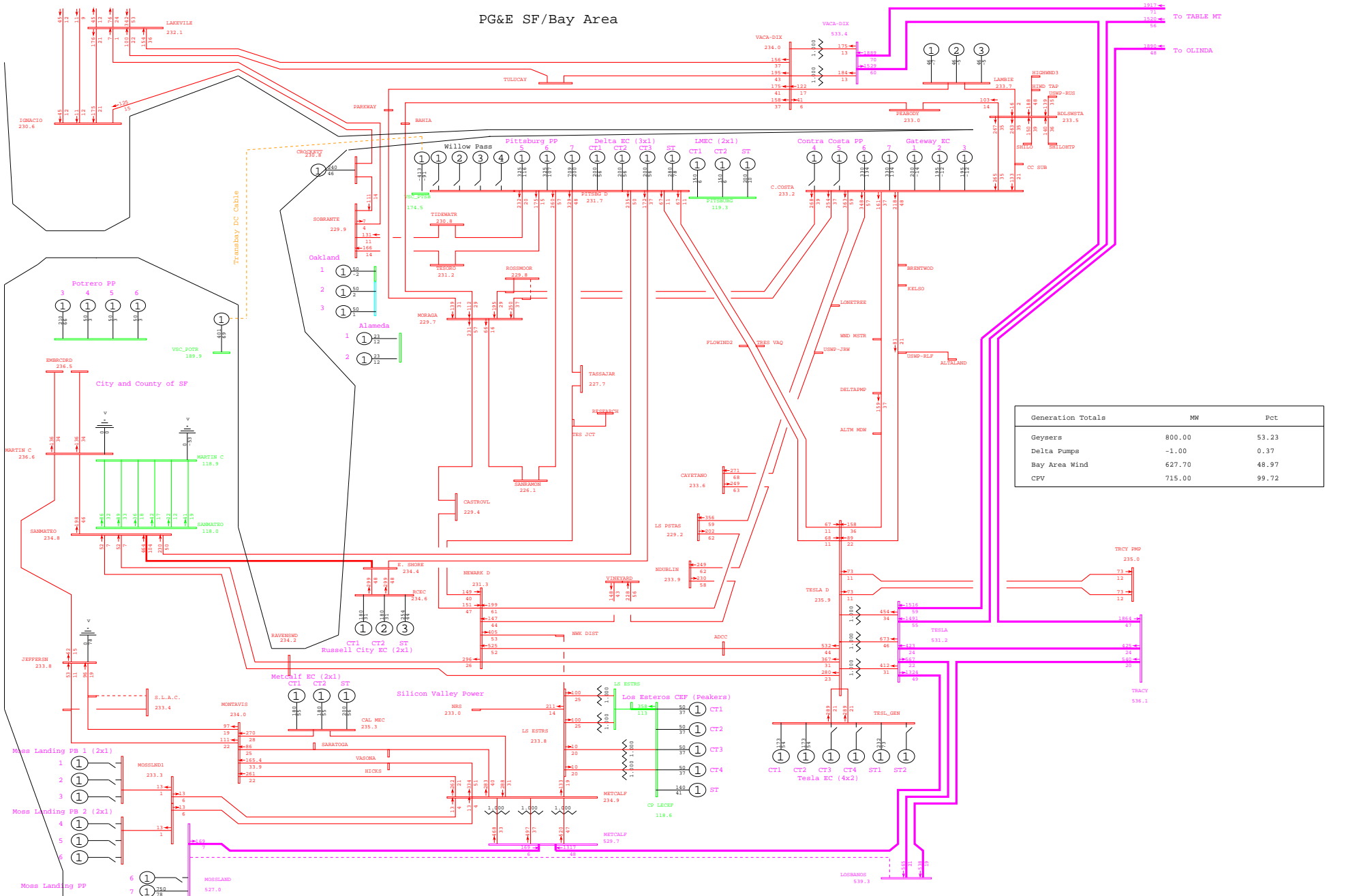


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 METCALF-MOSSLAND 500kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 109

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

General Electric International, Inc. PSLF Program Fri Sep 26 20:51:31 2008 wlopssv2-2013mrnt_pre_ptsb-110.sav

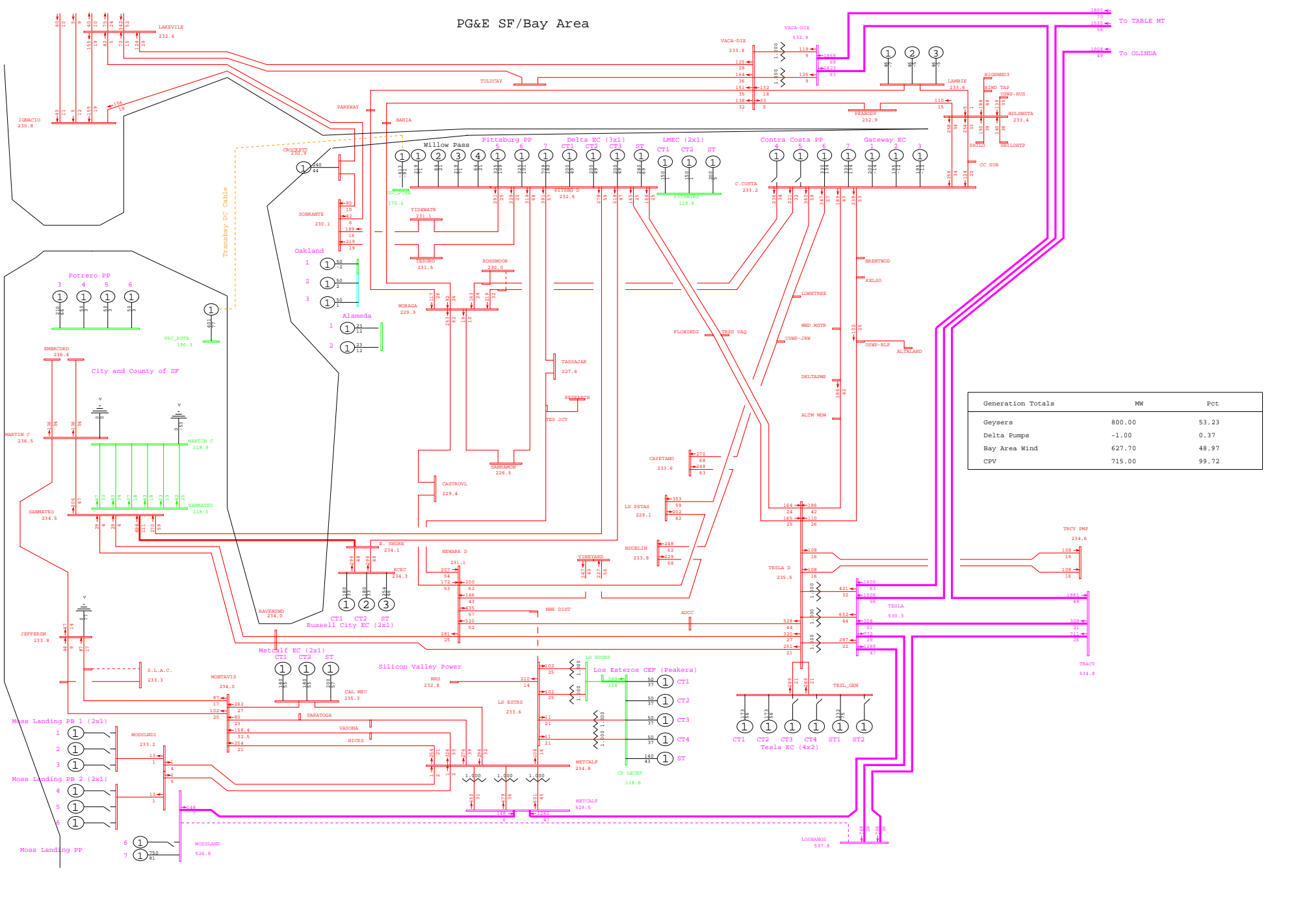


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 MOSSLAND-LOSBANOS 500kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 110

MW/% rate
 bayarea_2013_PGE_v4.cdw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:48:24 2008 wlopssv2-2013mrnt_pst_ptsb-110.sav

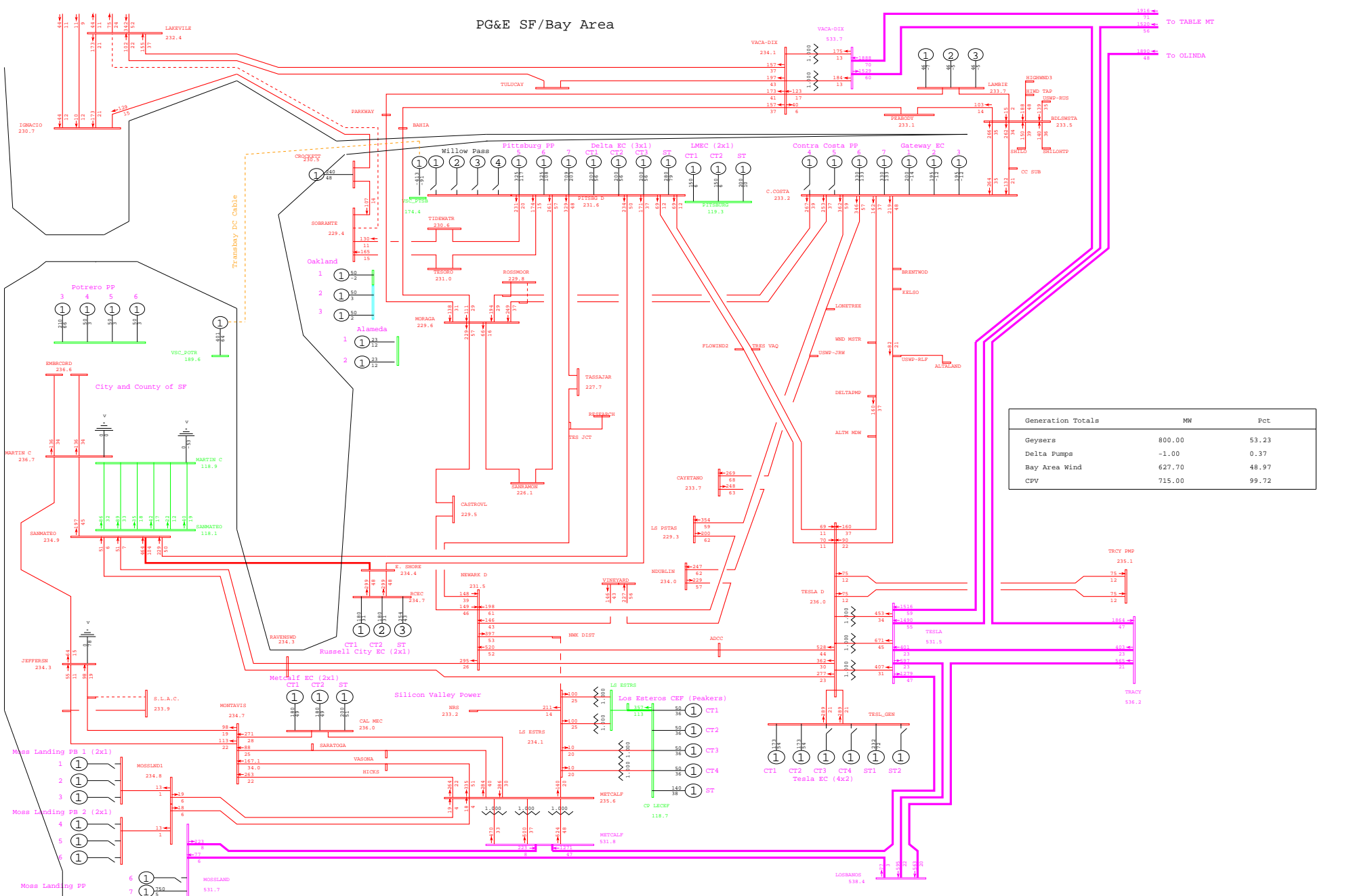


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 MOSSLAND-LOSBANOS 500kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 110

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:51:32 2008 wlopssv2-2013mrnt_pre_ptsb-119.sav

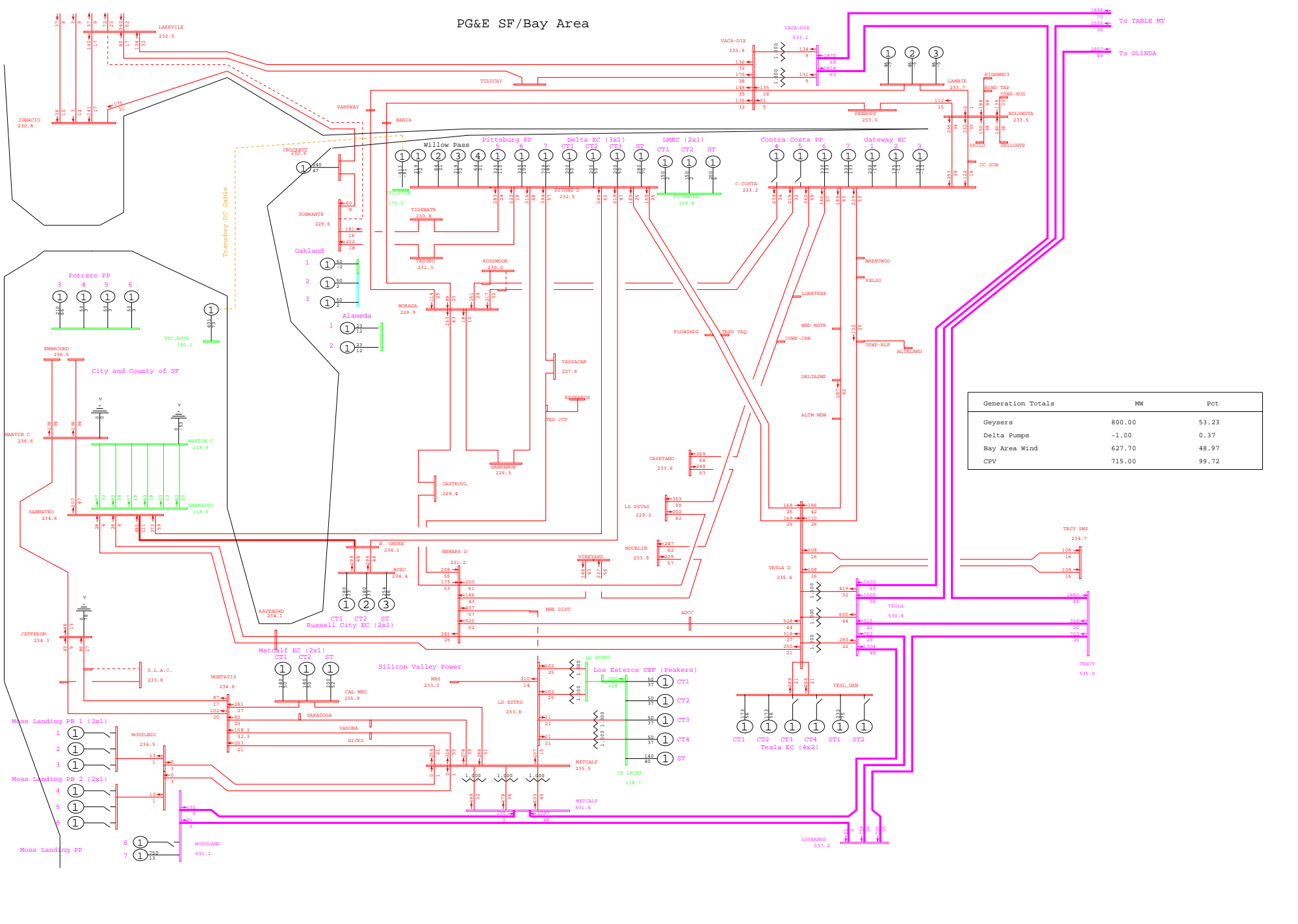


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 LAKEVILLE-SOBRANTE 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 119

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

General Electric International, Inc. PSLF Program Fri Sep 26 20:48:25 2008 wlopssv2-2013mrnt_pst_ptsb-119.sav

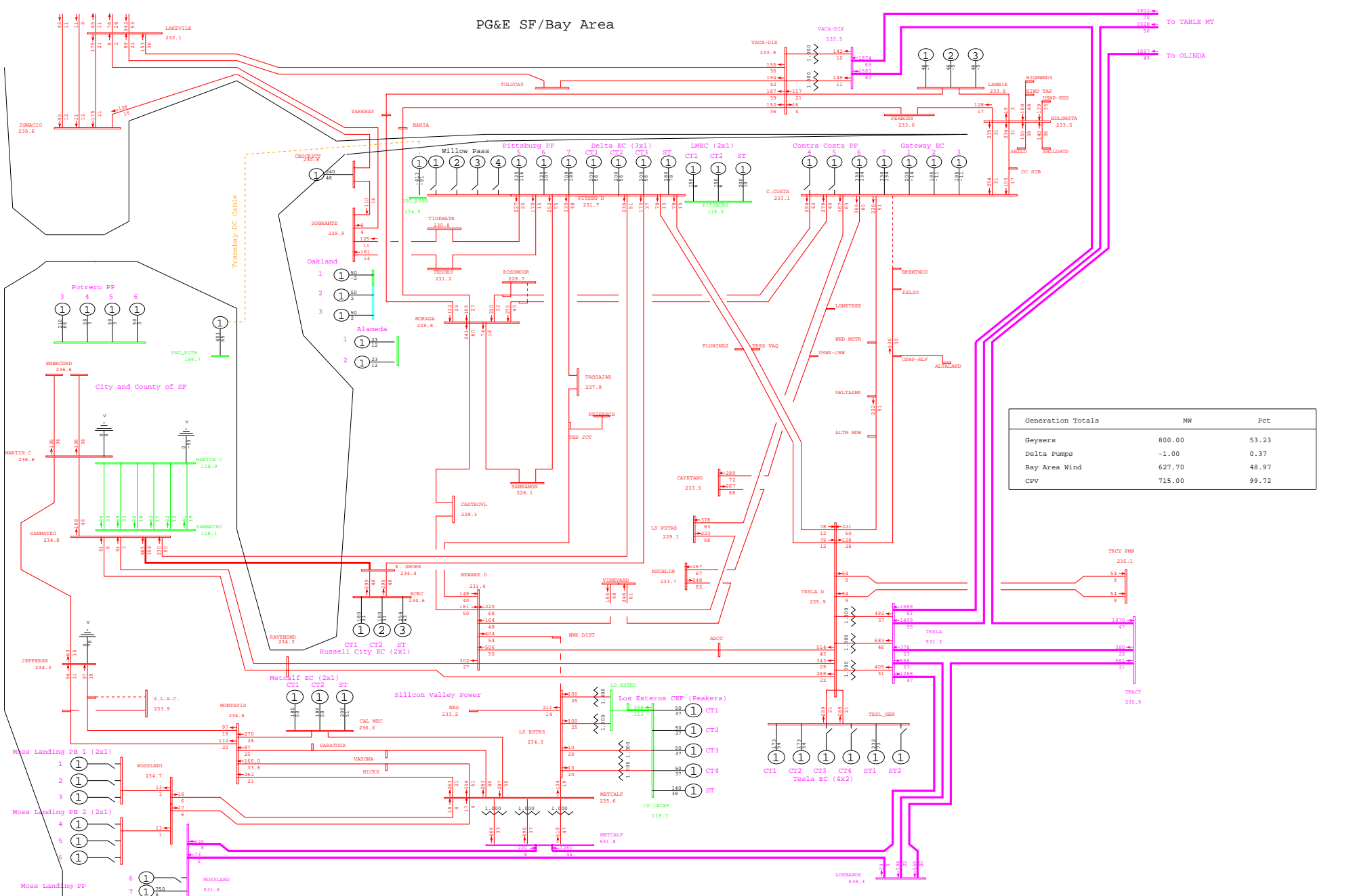


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 LAKEVILLE-SOBRANTE 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 119

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



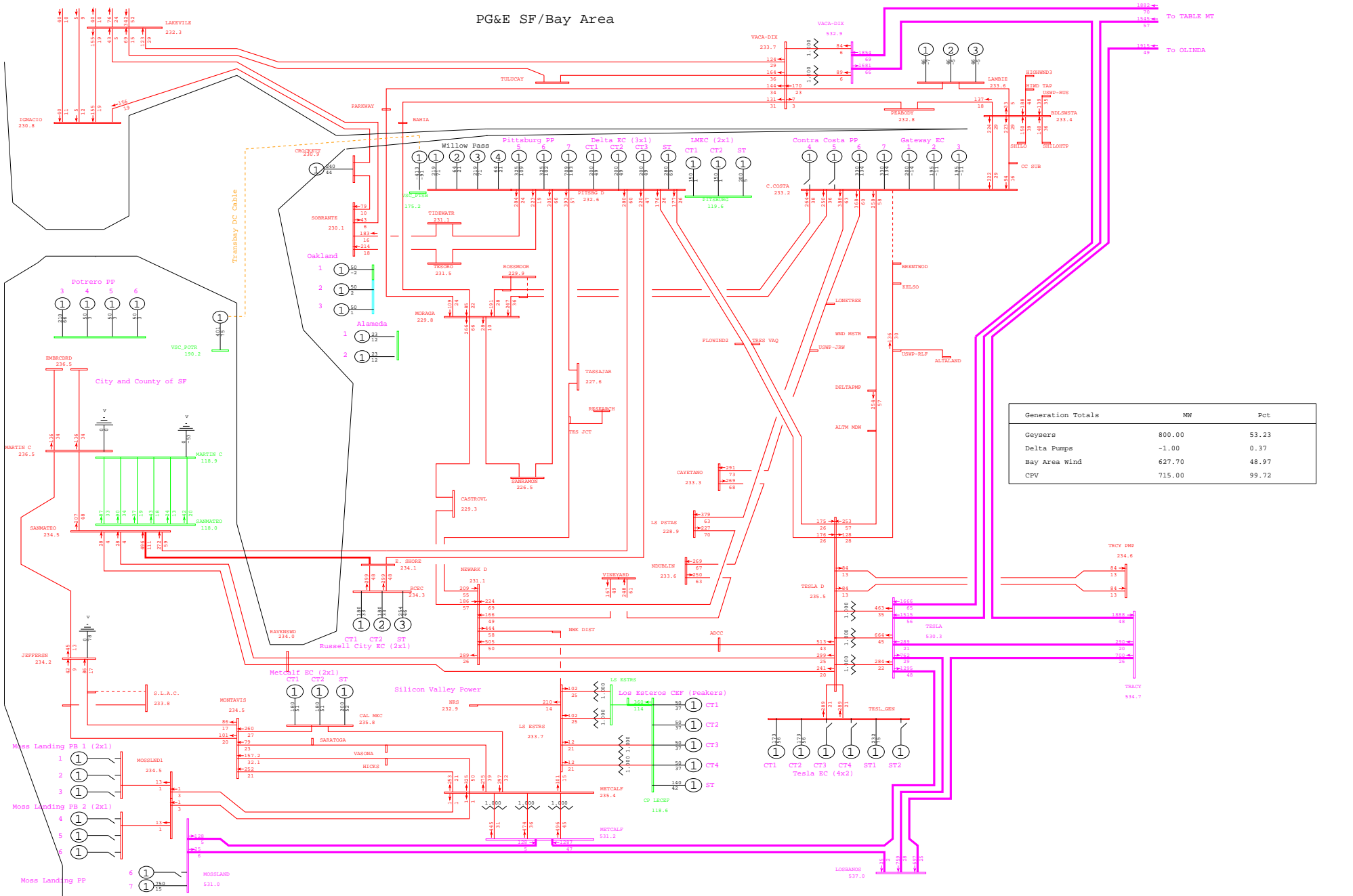
General Electric International, Inc. PSLF Program Fri Sep 26 20:51:33 2008 wlopssv2-2013mrnt_pre_ptsb-134.sav



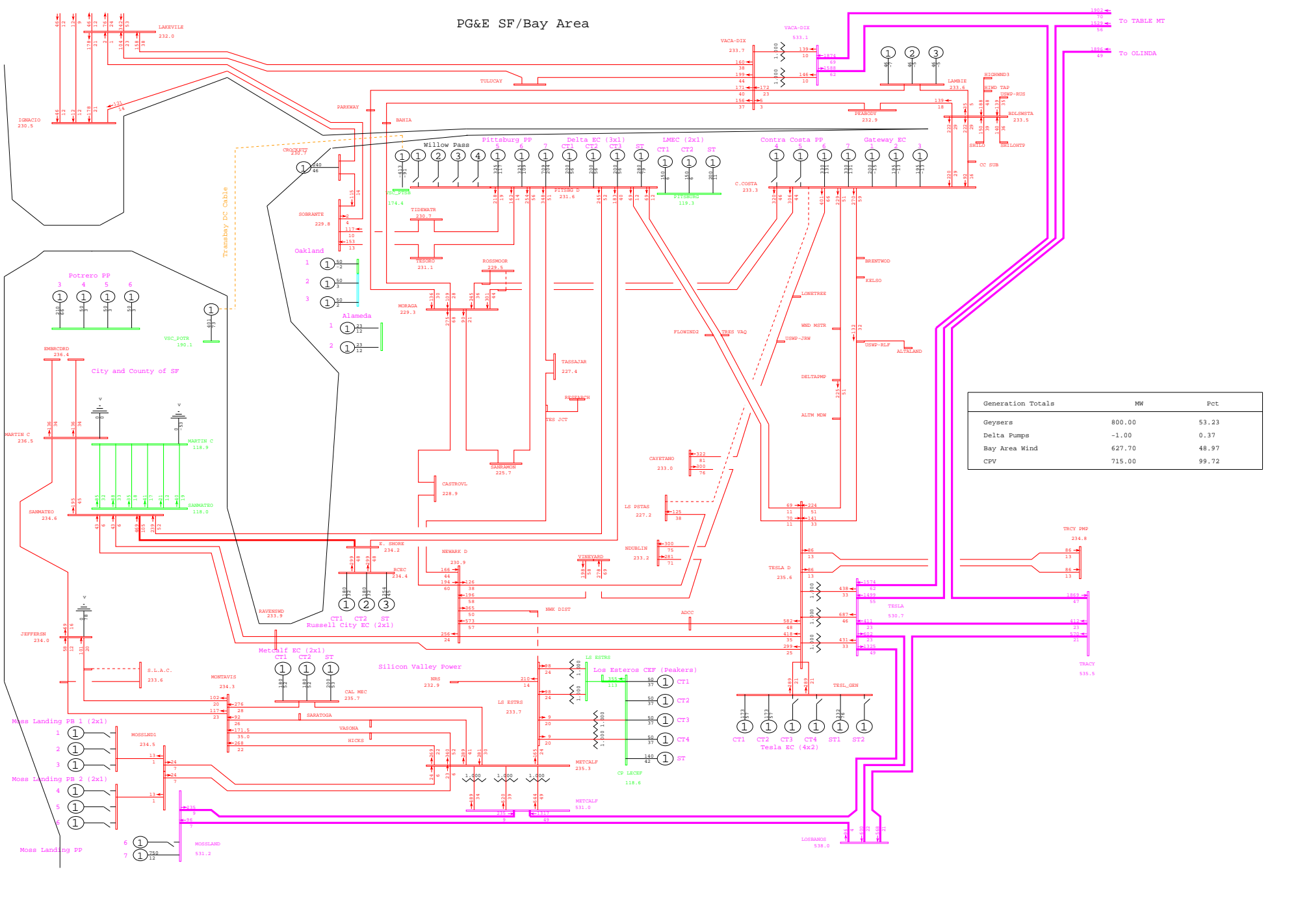
PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 C.COSTA - BRENTWOOD 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 134
 MW/% rate
 bayarea_2013_PGE_v4.drw
 Rating = 2

PG&E SF/Bay Area



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:51:35 2008 wlopssv2-2013mrnt_pre_ptsb-136.sav

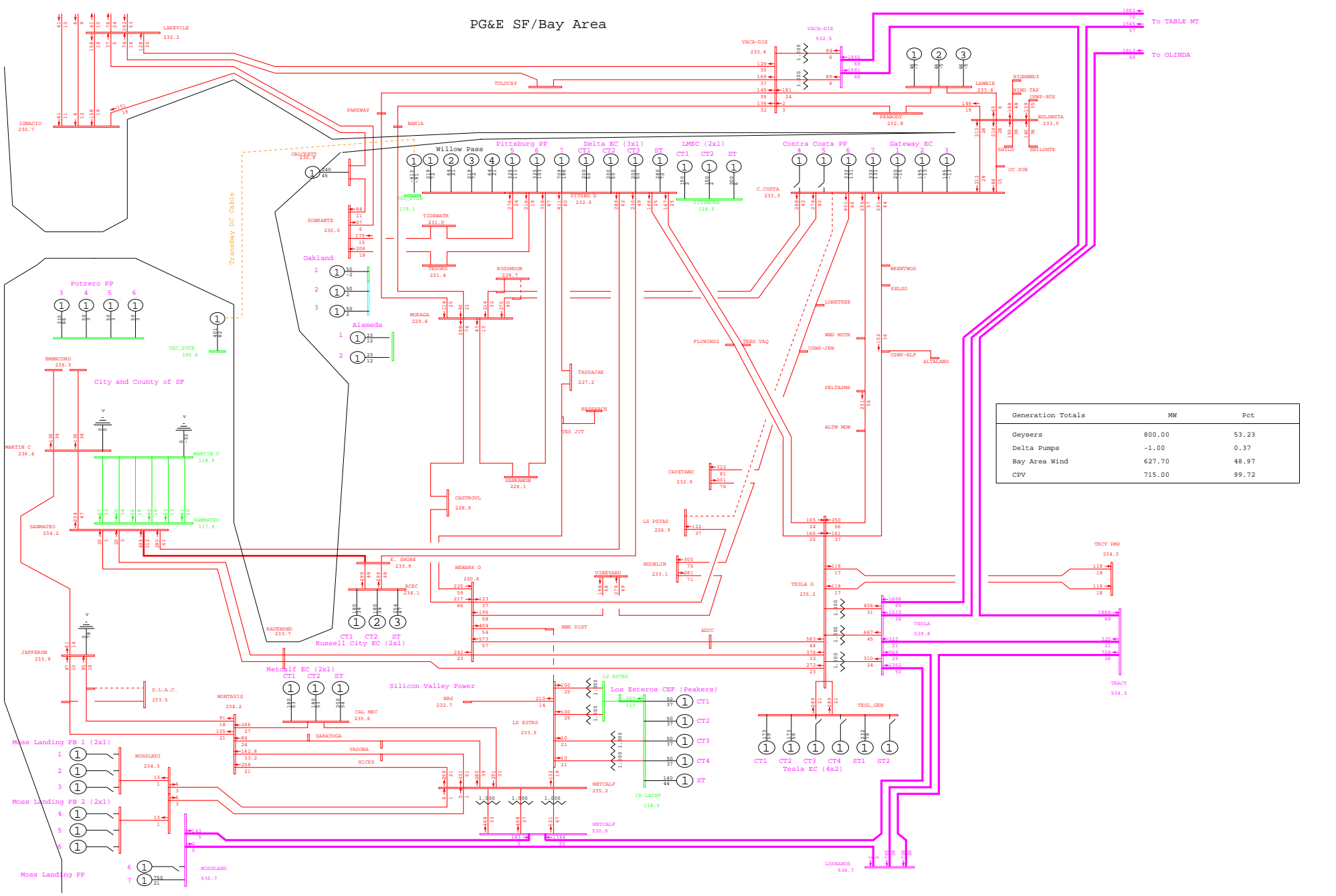


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 C.COSTA - LS PSTAS 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 136

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



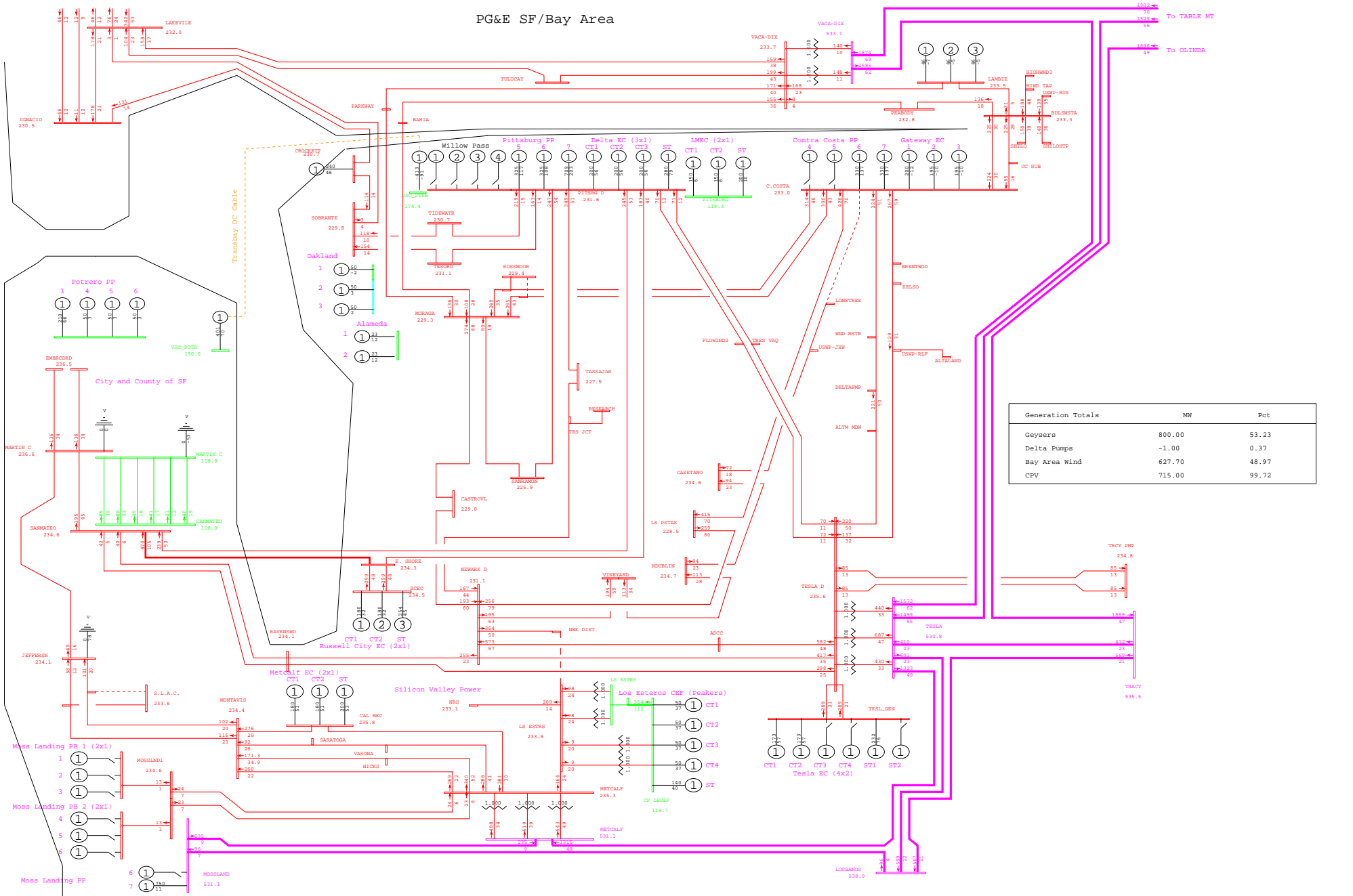
General Electric International, Inc. PSLF Program Fri Sep 26 20:48:28 2008 wlopssv2-2013mrnt_pst_ptsb-136.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-1 C.COSTA - LS PSTAS 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 136
 MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

General Electric International, Inc. PSLF Program Fri Sep 26 20:51:36 2008 wlopssv2-2013mrnt_pre_ptsb-137.sav

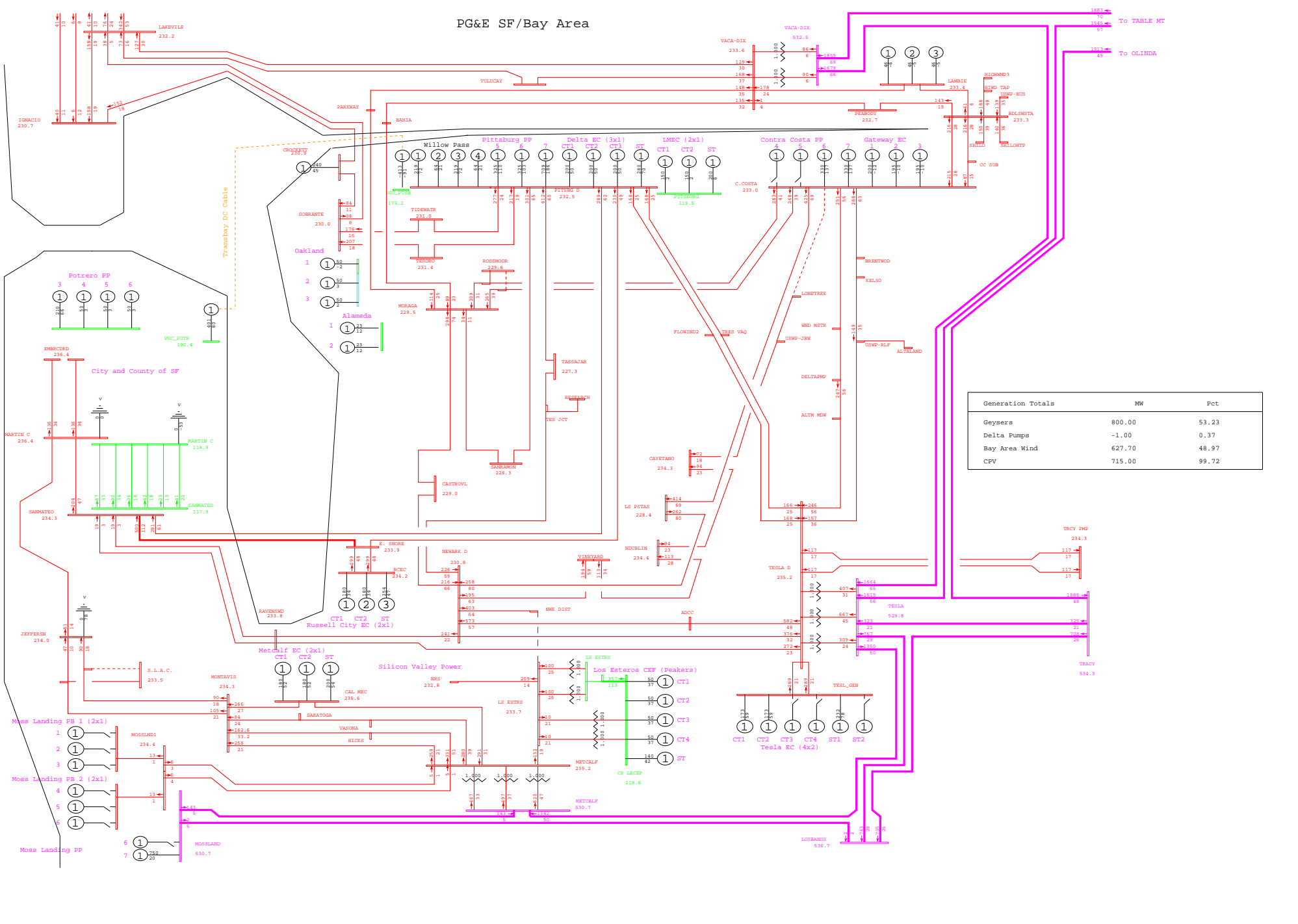


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 LONETREE-C.COSTA 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 137


MW/% rate	
bayarea_2013_PGE_v4.0.rw	
Rating =	2

PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

General Electric International, Inc. PSLF Program Fri Sep 26 20:48:29 2008 wlopssv2-2013mrnt_pst_ptsb-137.sav

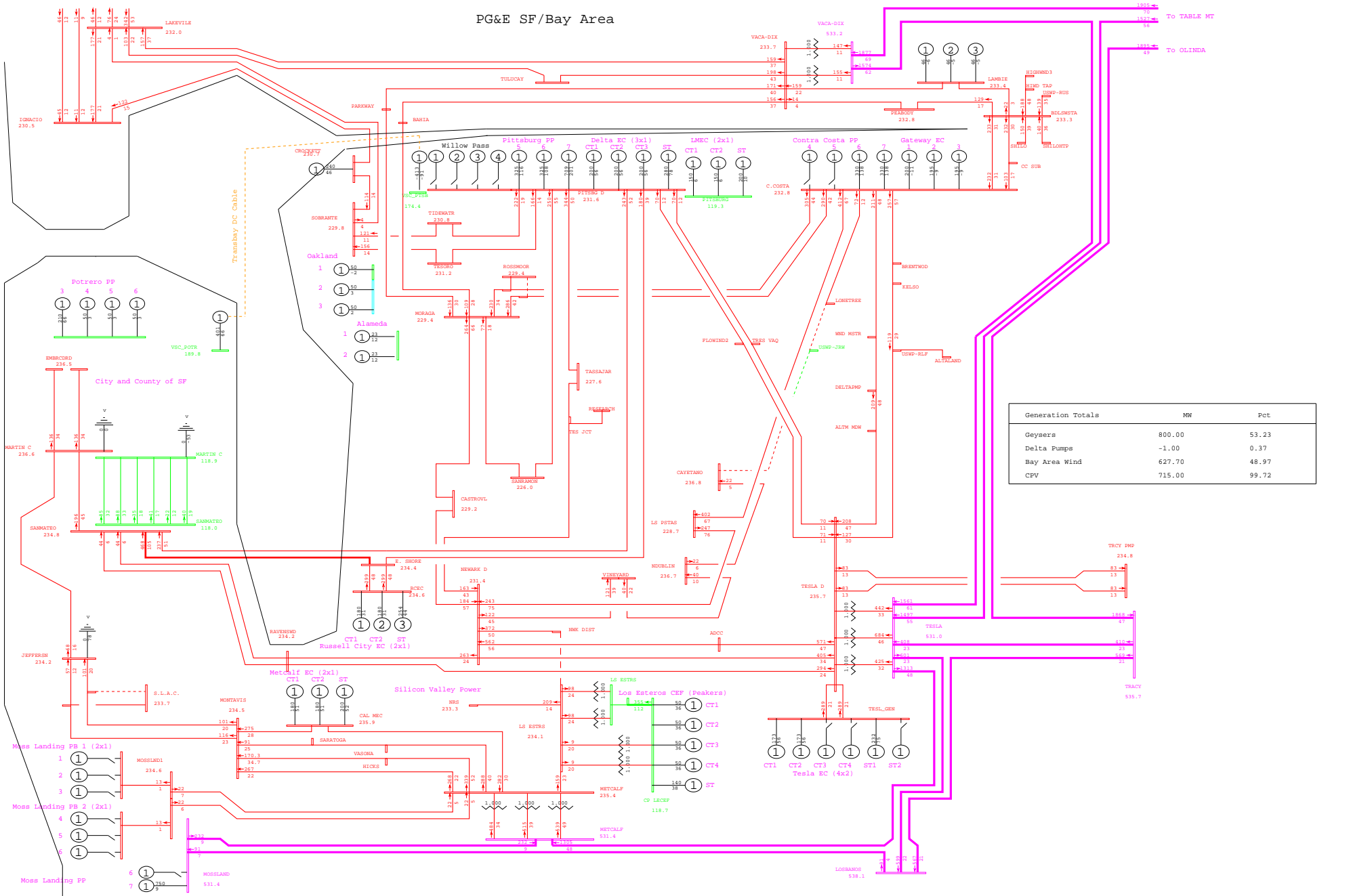


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 LONETREE-C.COSTA 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 137

MW/% rate
 bayarea_2013_PGE_v4.cfw
 Rating = 2

PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

General Electric International, Inc. PSLF Program Fri Sep 26 20:51:37 2008 wlopcsv2-2013mrnt_pre_ptsb-138.sav

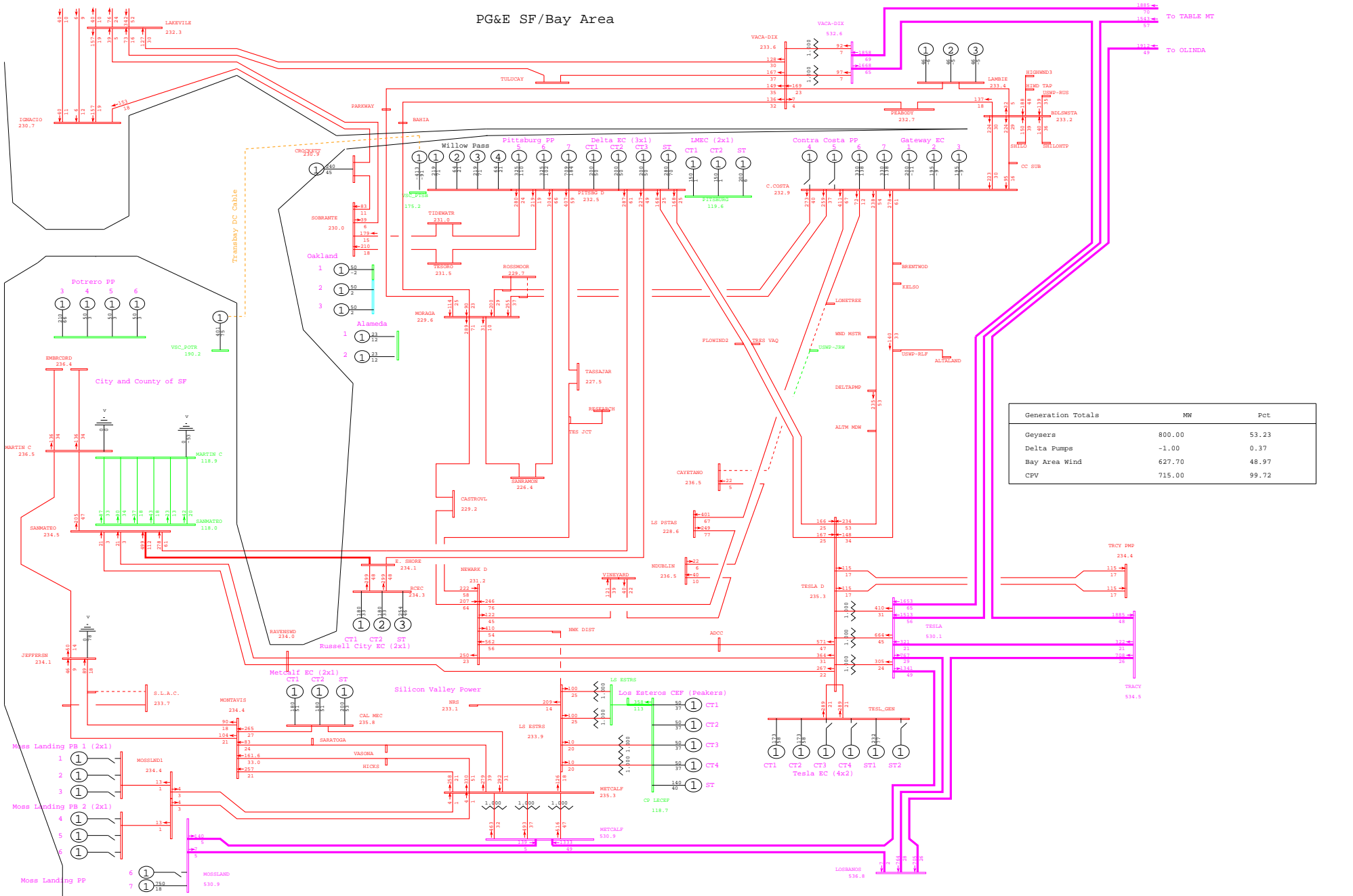


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 CAYETANO-LONETREE 230kV LINE
 wlopcsv2.pfp, STEADY STATE, CASE NUMBER 138

MW/% rate
 bayarea_2013_PGE_v4.0.rtf
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:48:30 2008 wlopssv2-2013mrnt_pst_ptsb-138.sav

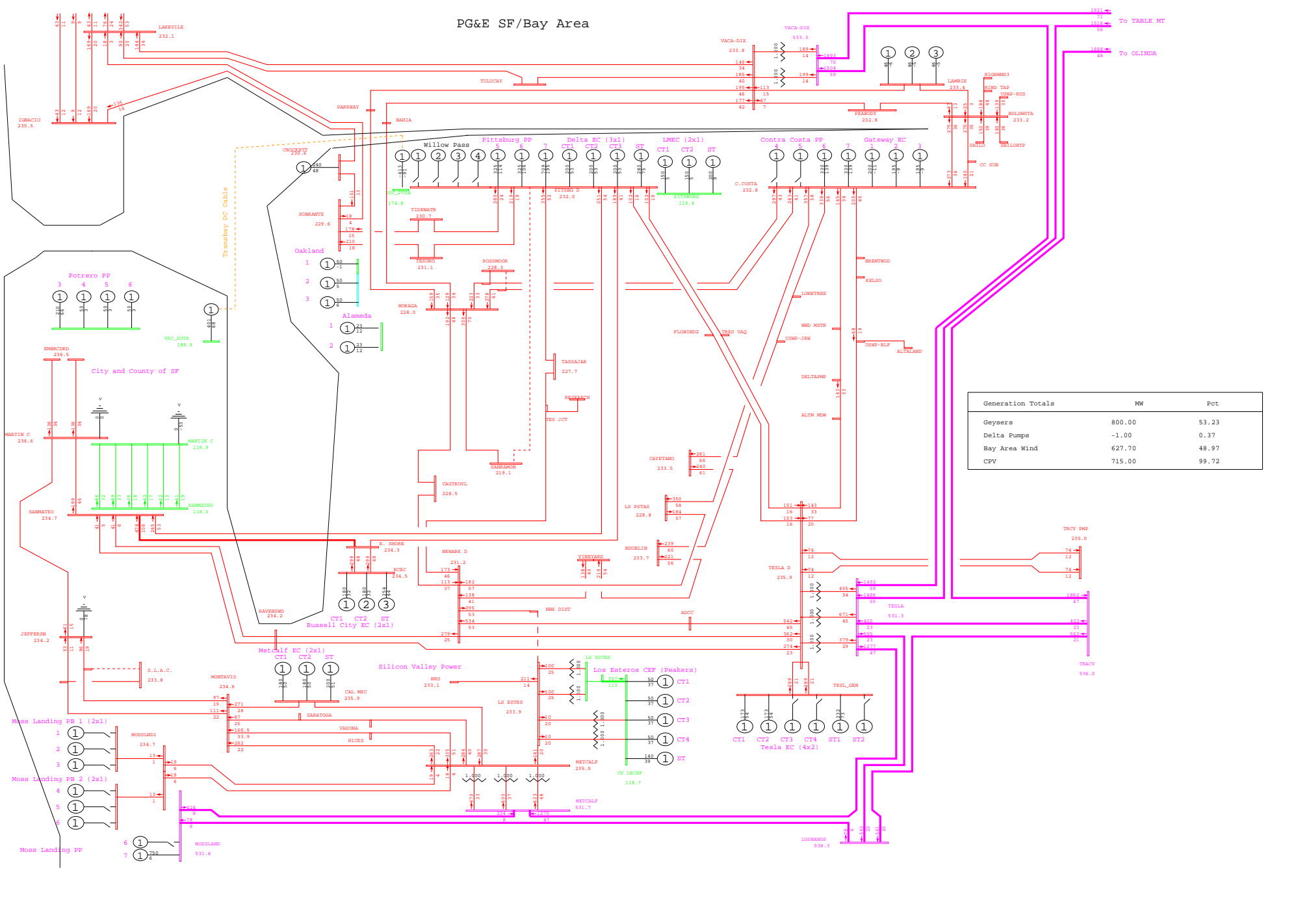


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 CAYETANO-LONETREE 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 138

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



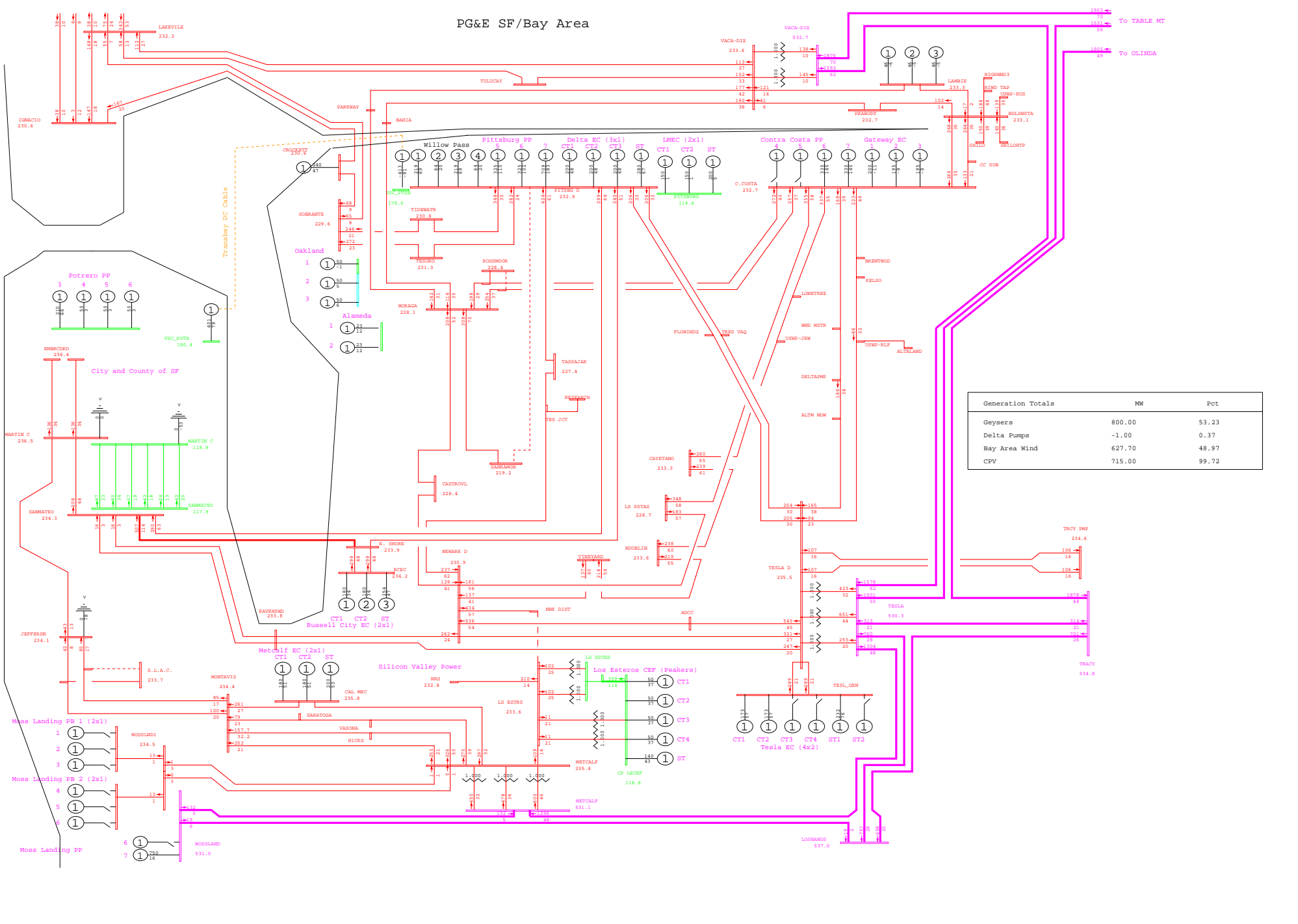
General Electric International, Inc. PSLF Program Fri Sep 26 20:51:38 2008 wlopssv2-2013mrnt_pre_ptsb-141.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 PITTSBURG - SAN RAMON 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 141
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:48:31 2008 wlopssv2-2013mrnt_pst_ptsb-141.sav

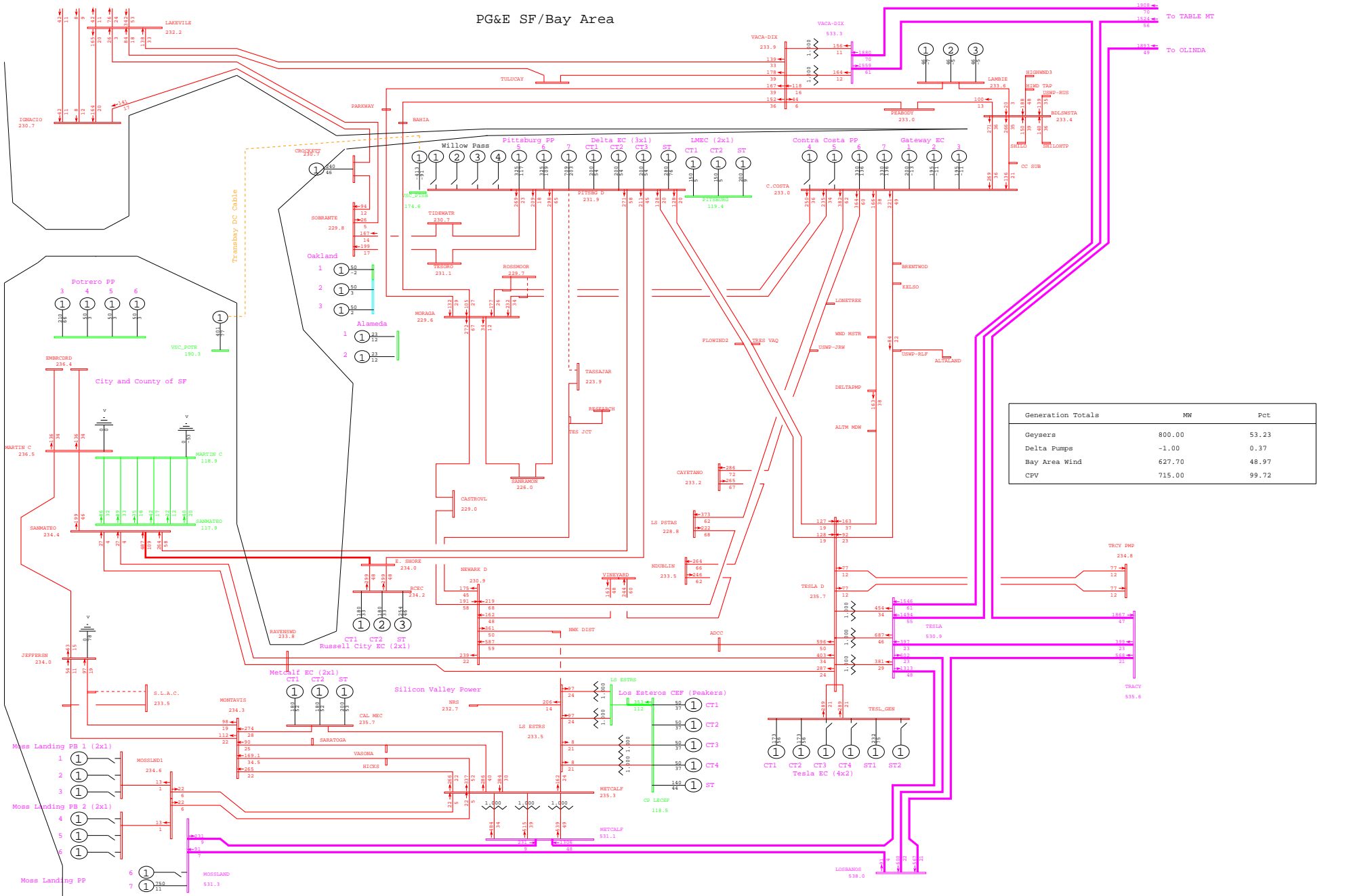


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

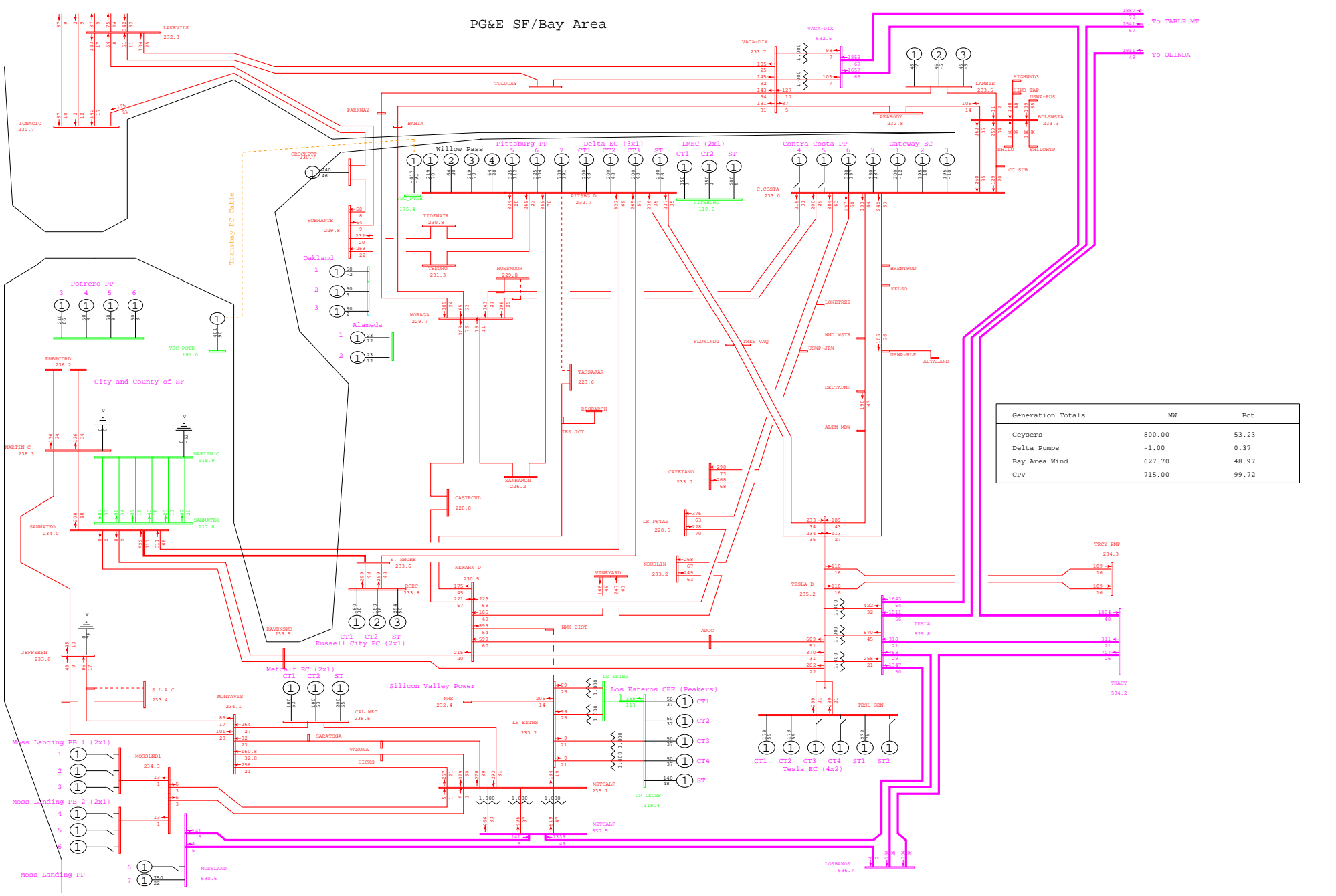
N-1 PITTSBURG - SAN RAMON 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 141

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:48:32 2008 wlopssv2-2013mrnt_pst_ptsb-142.sav

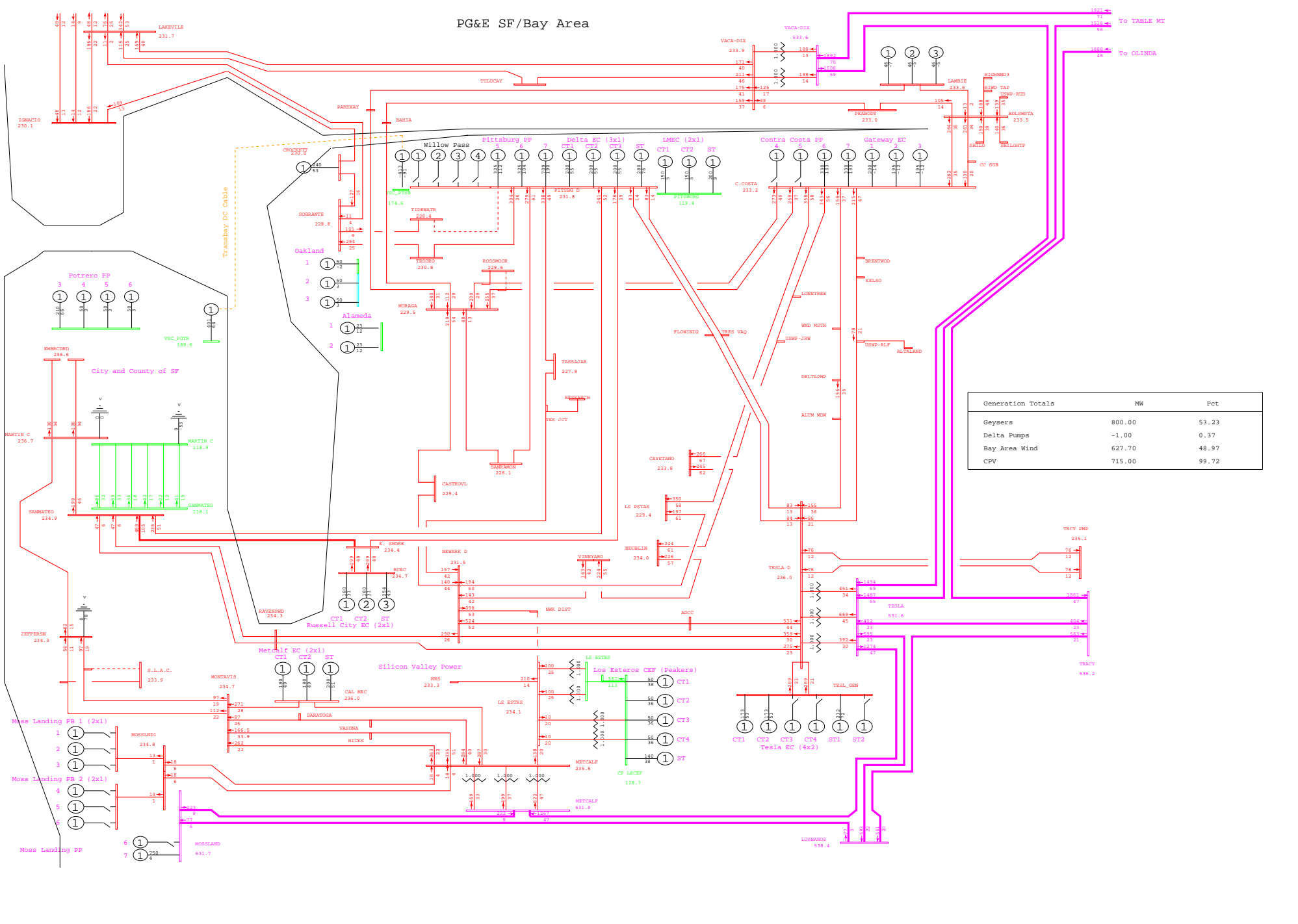


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 PITTSBURG - TASSAJAR 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 142

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



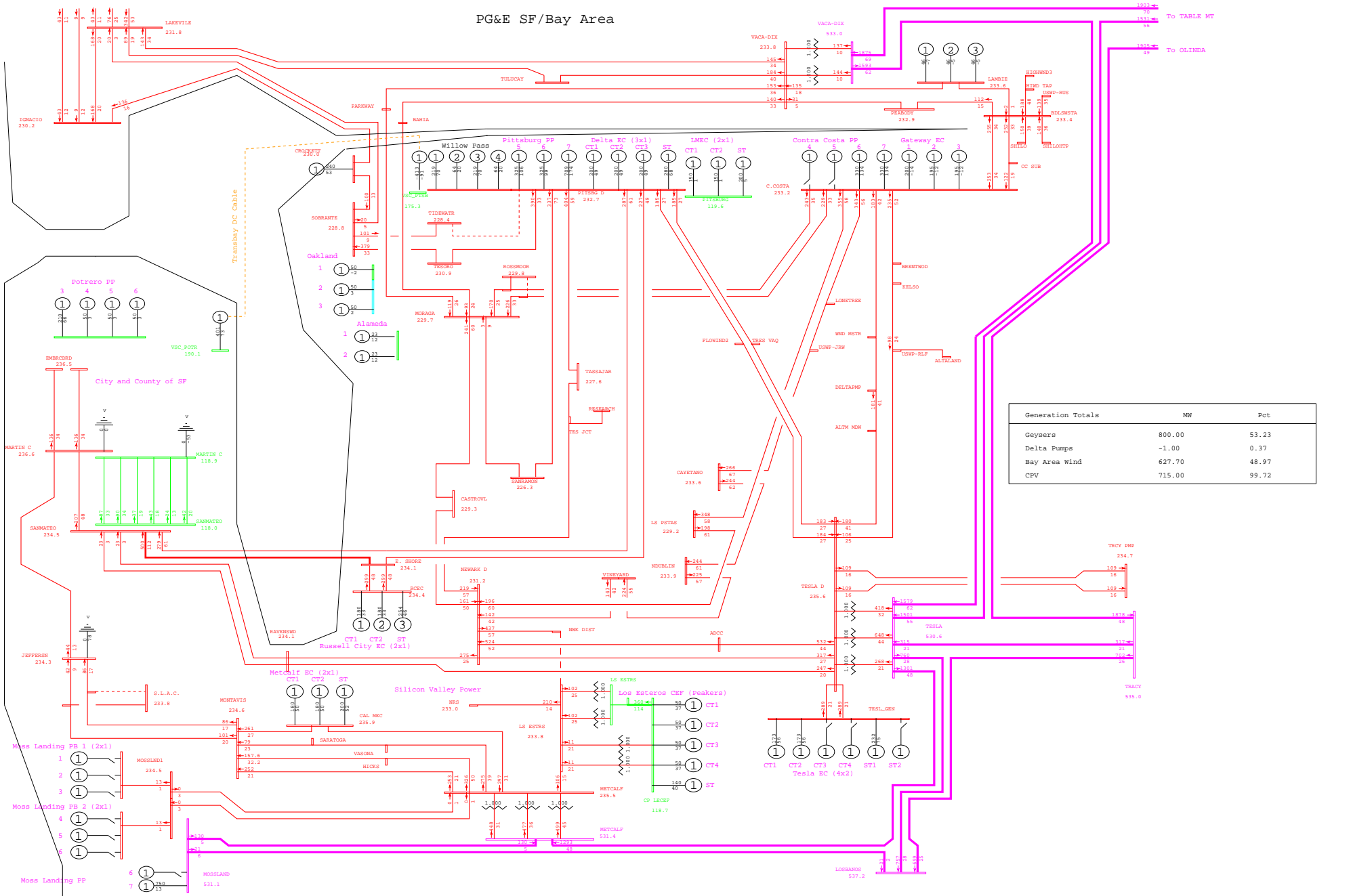
General Electric International, Inc. PSLF Program Fri Sep 26 20:51:41 2008 wlopssv2-2013mrnt_pre_ptsb-143.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 PITTSBURG - TIDEWATR 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 143
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



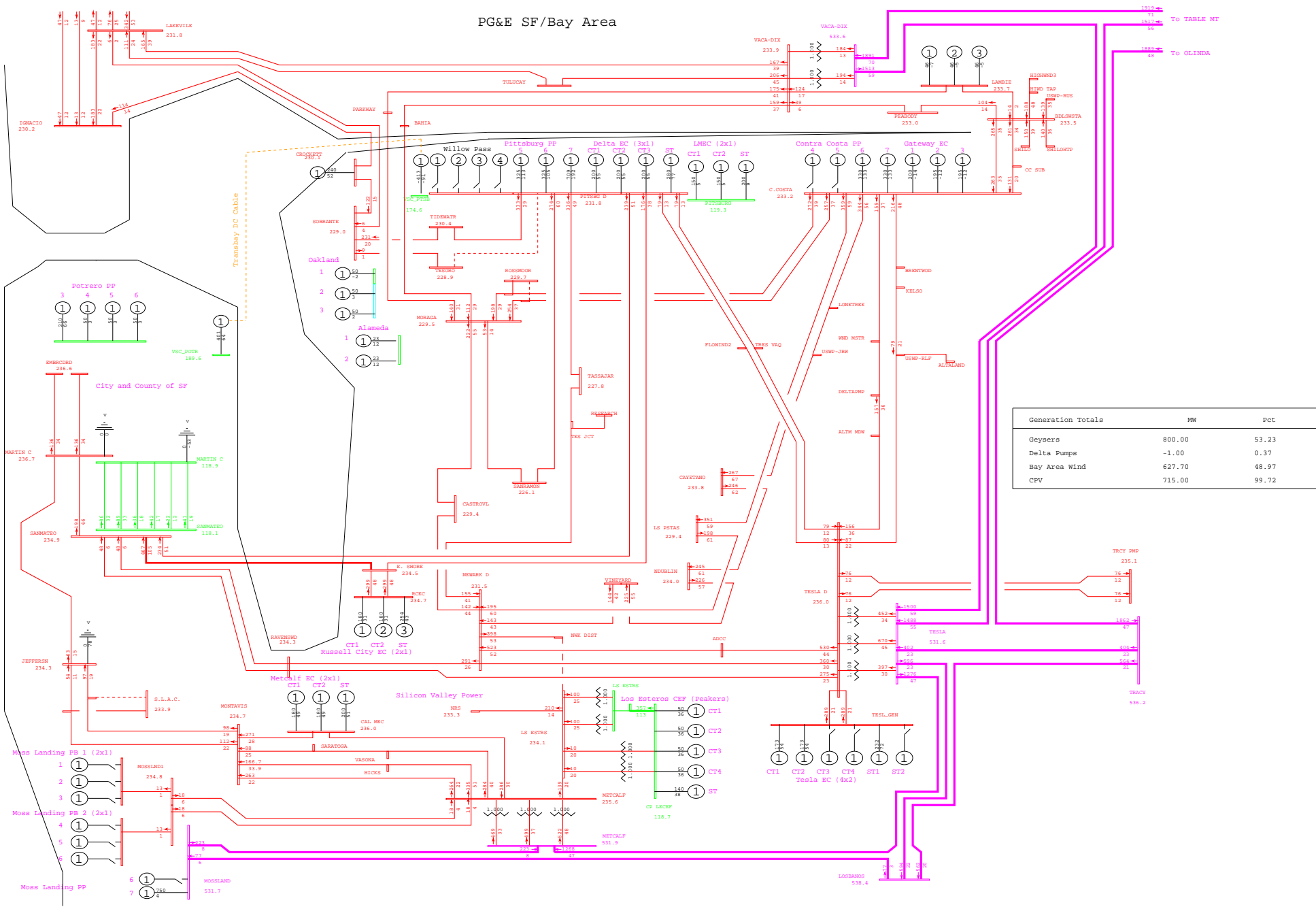
General Electric International, Inc. PSLF Program Fri Sep 26 20:48:33 2008 wlopssv2-2013mrnt_pst_ptsb-143.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 PITTSBURG - TIDEWATR 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 143
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

General Electric International, Inc. PSLF Program Fri Sep 26 20:51:42 2008 wlopssv2-2013mrnt_pre_ptsb-144.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav

2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)

COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 PITTSBURG - TESORO 230kV LINE

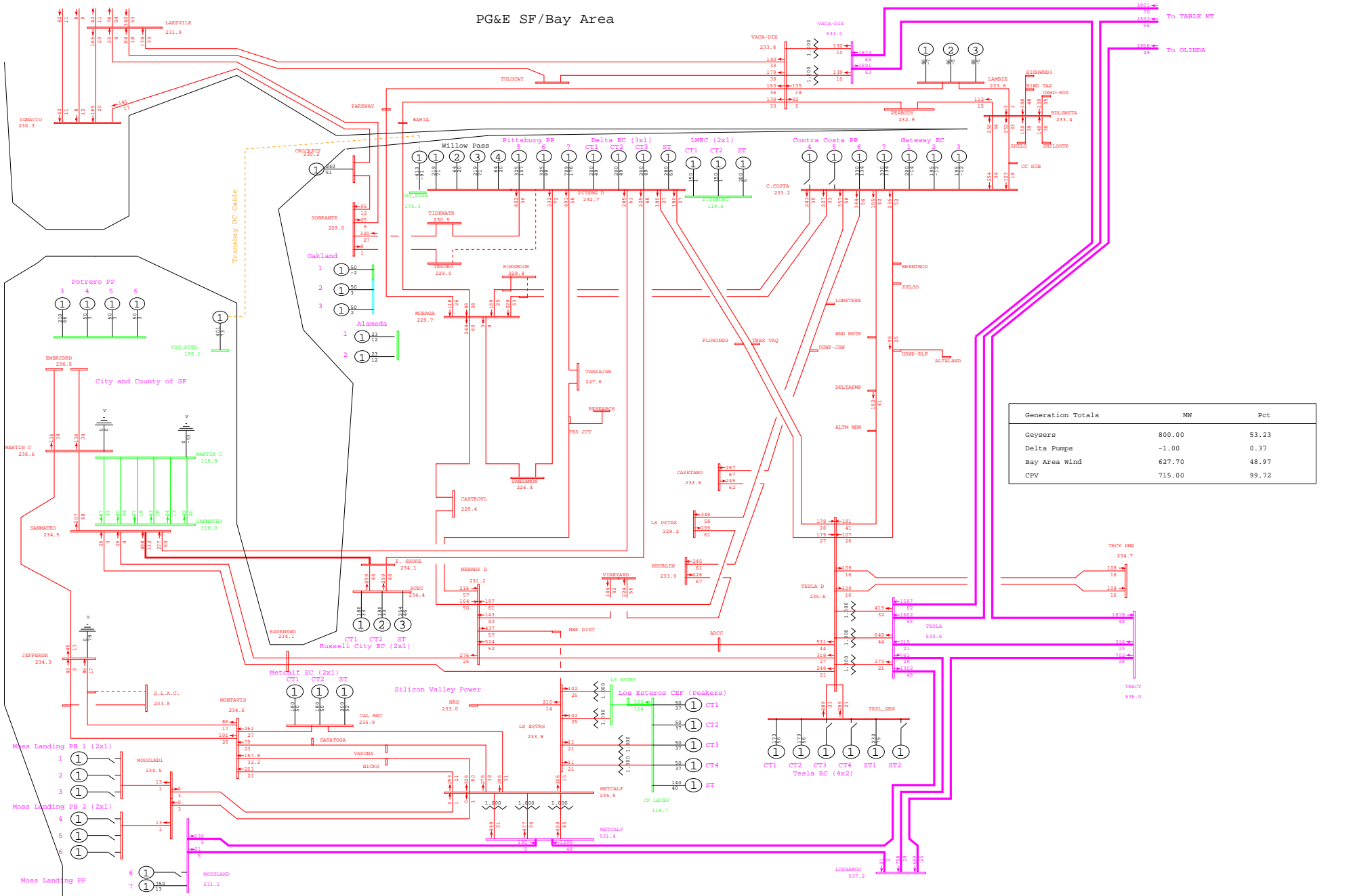
wlopssv2.pfp, STEADY STATE, CASE NUMBER 144

MW/% rate

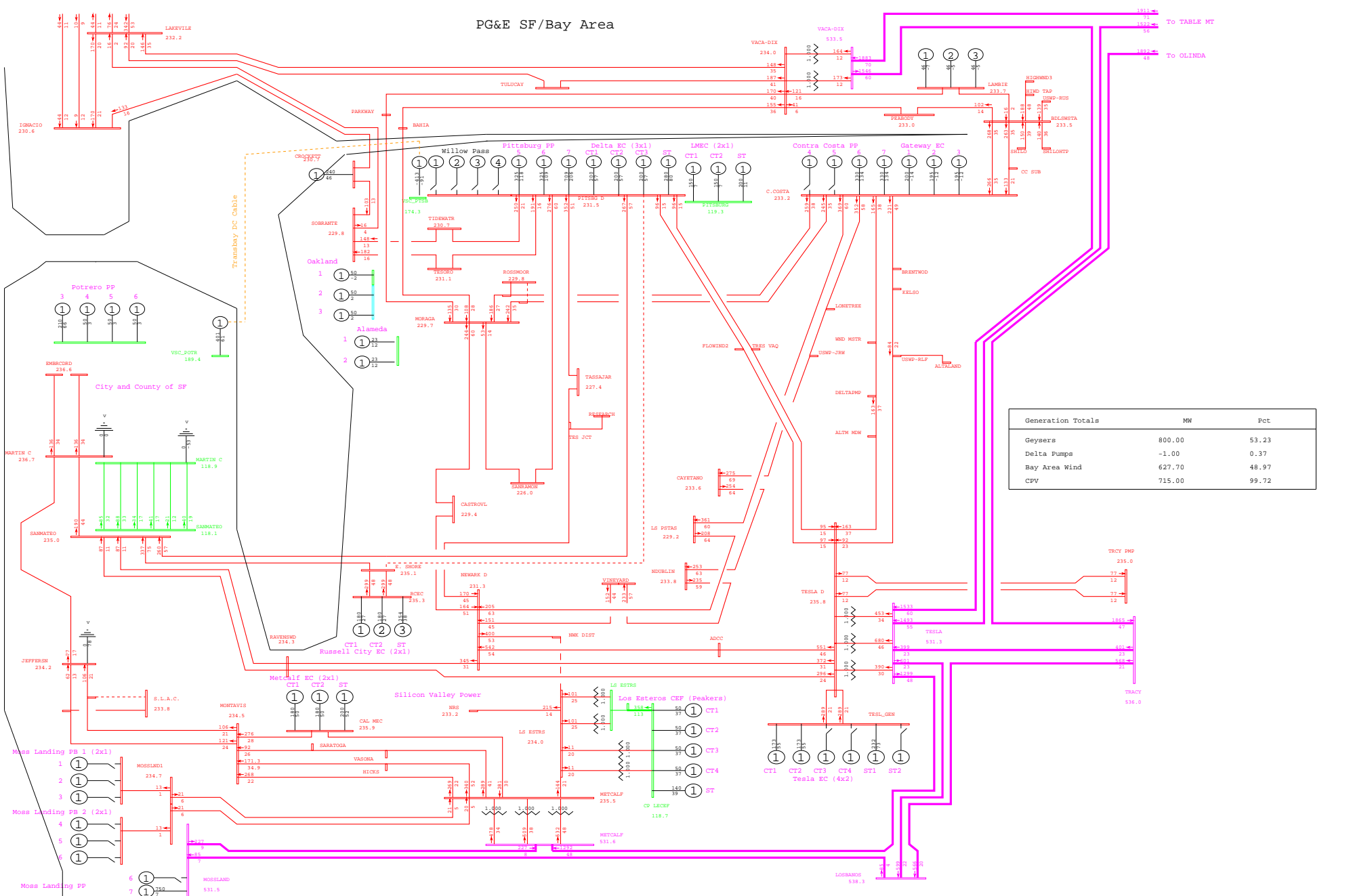
bayarea_2013_PGE_v4.dcrw

Rating = 2


PG&E SF/Bay Area



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:51:43 2008 wlopssv2-2013mrnt_pre_ptsb-145.sav

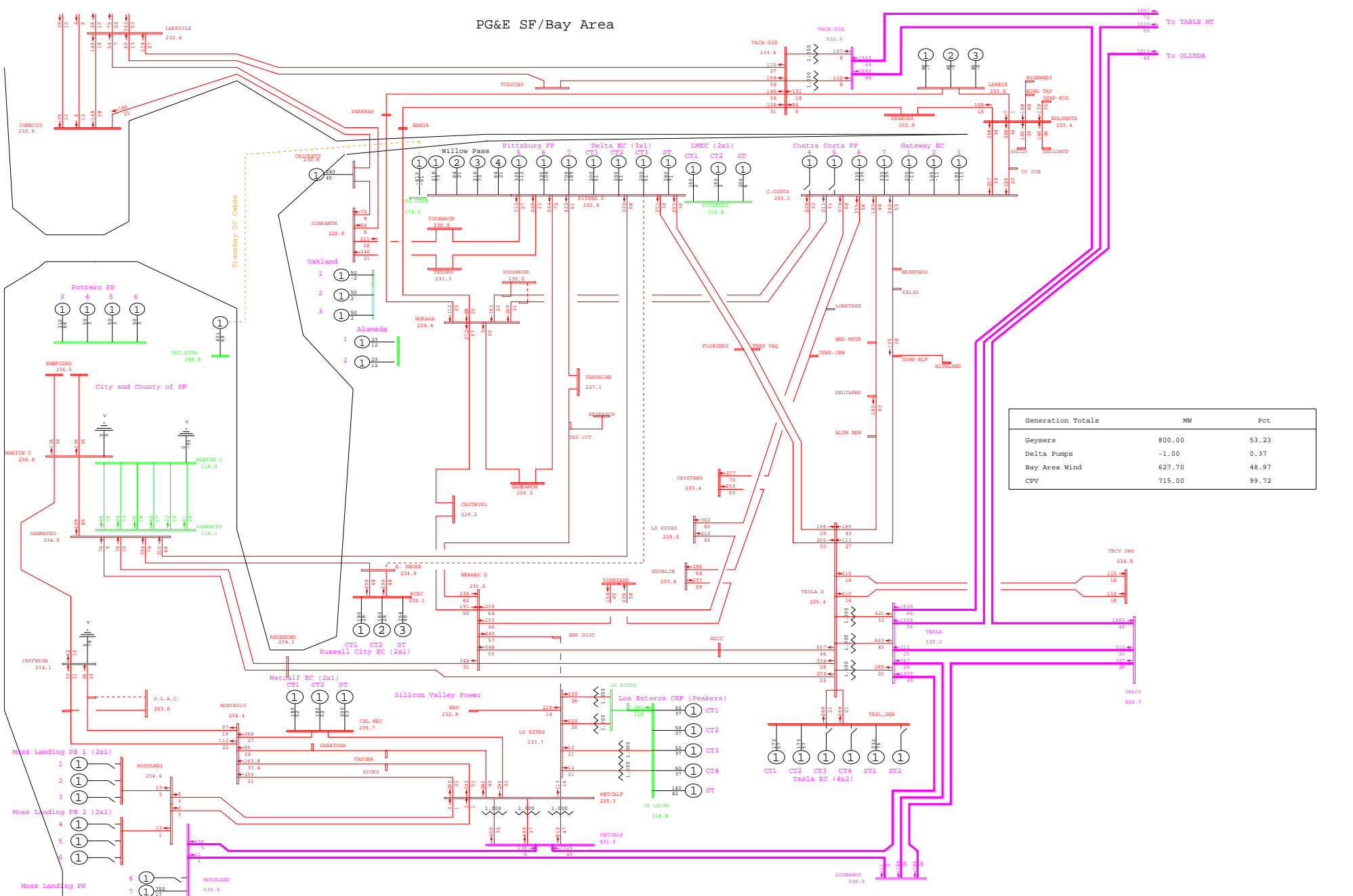


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 PITTSBURG - EAST SHORE 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 145

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:48:35 2008 wlopssv2-2013mrnt_pst_ptsb-145.sav

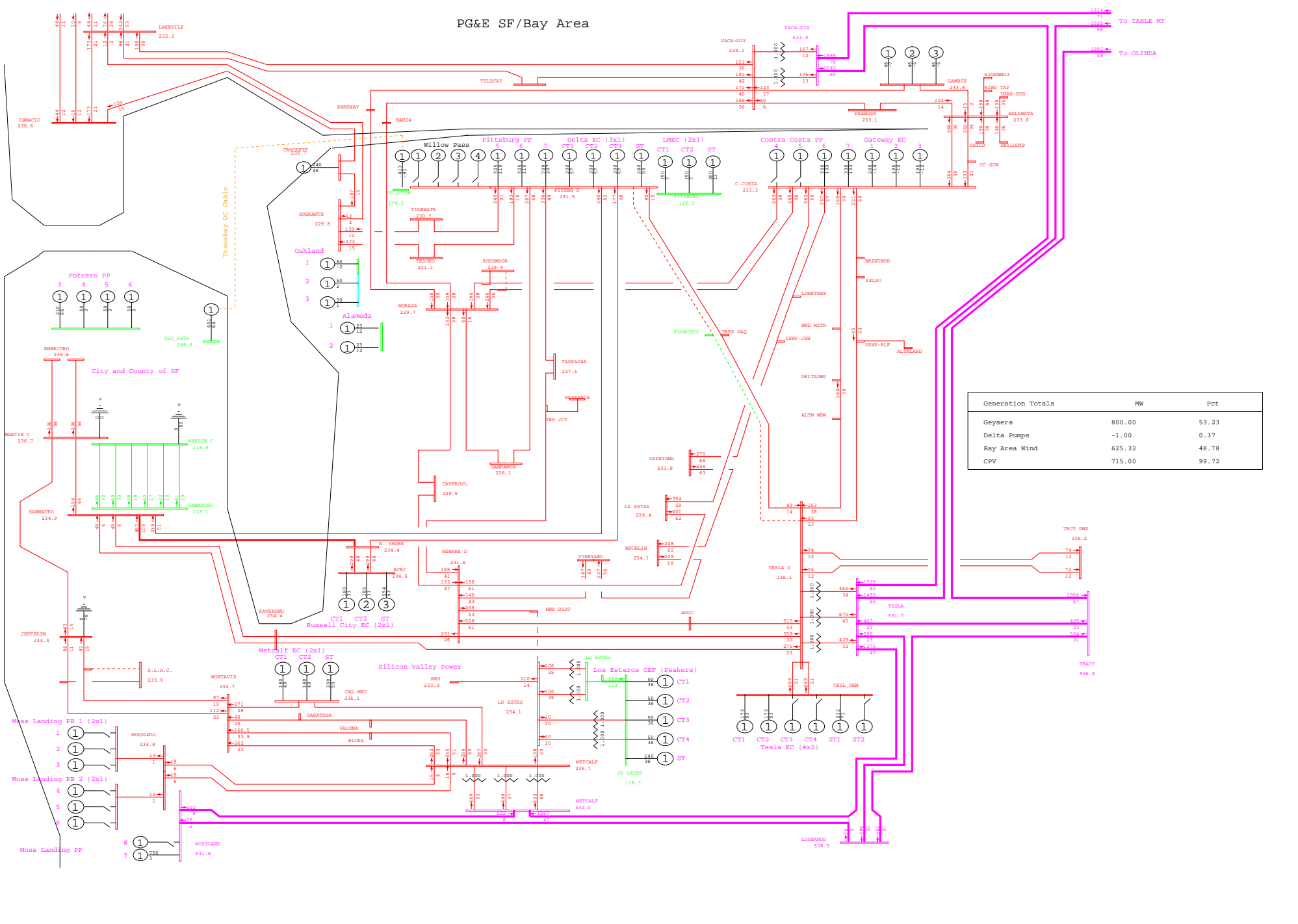


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 PITTSBURG - EAST SHORE 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 145

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	625.32	48.78
CPV	715.00	99.72

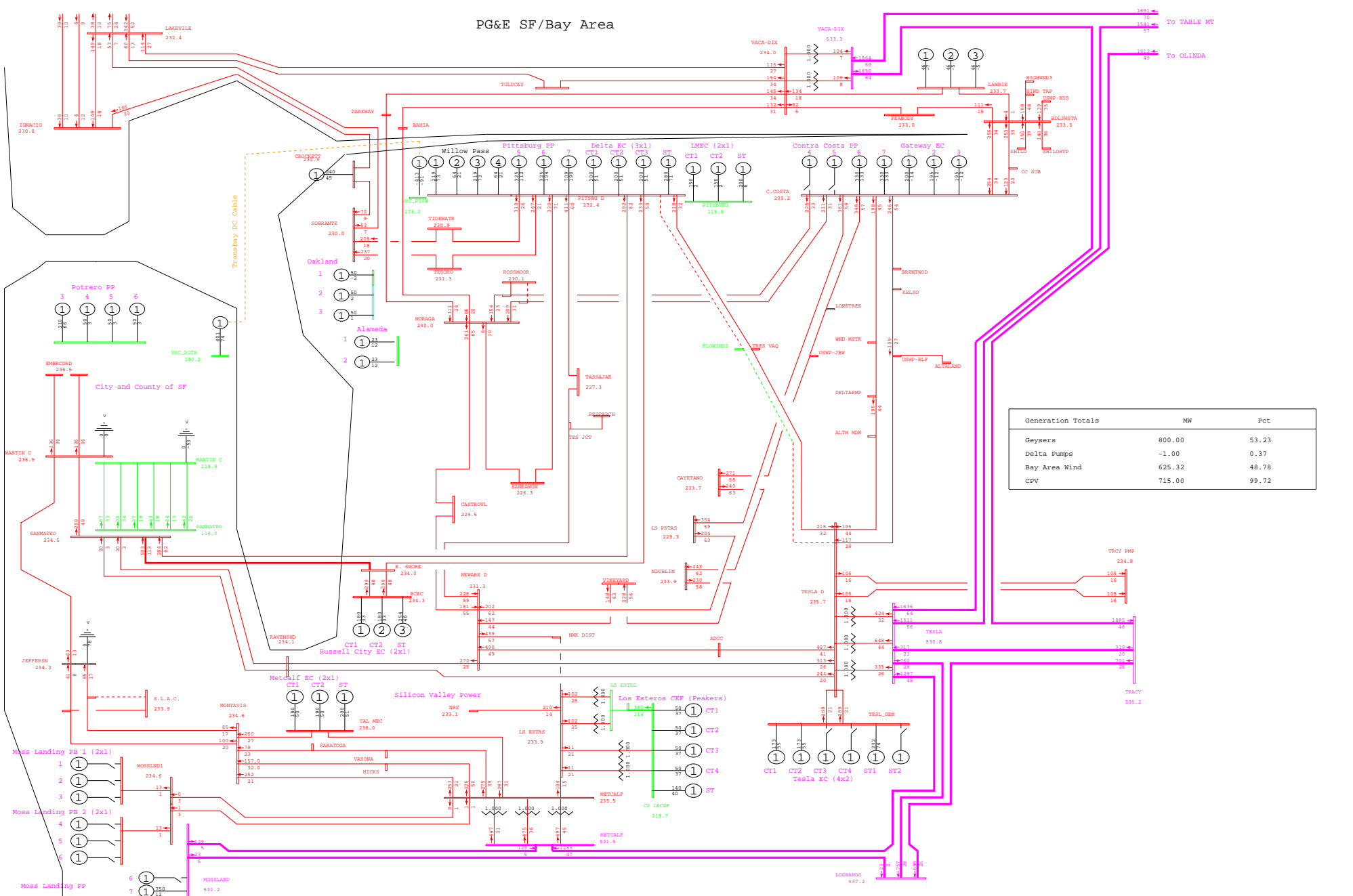
General Electric International, Inc. PSLF Program Fri Sep 26 20:51:44 2008 wlopssv2-2013mrnt_pre_ptsb-146.sav




PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 PITTSBURG - TESLA C 230kV #1 LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 146
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:48:35 2008 wlopssv2-2013mrnt_pst_ptsb-146.sav

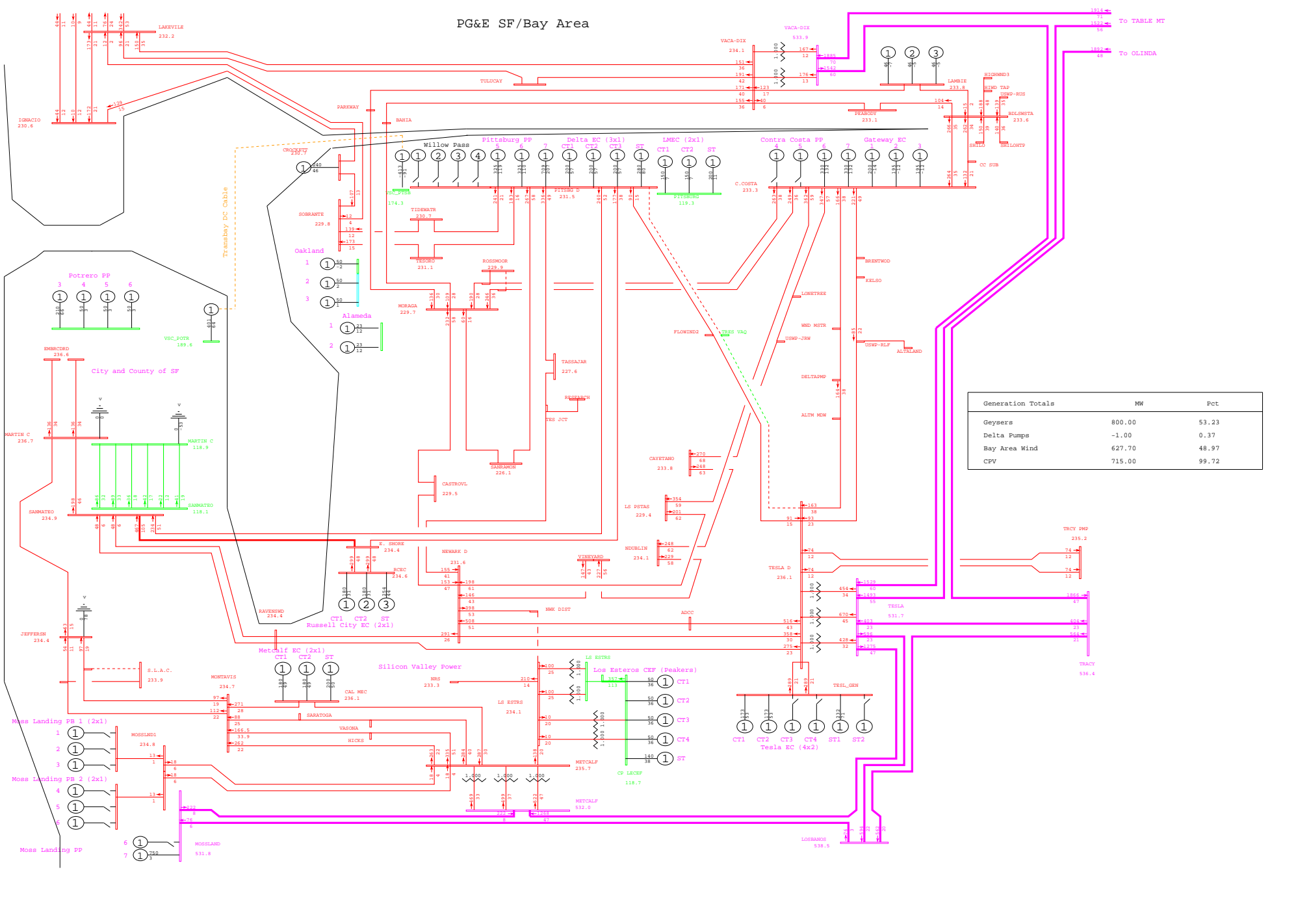


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-1 PITTSBURG - TESLA C 230kV #1 LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 146

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



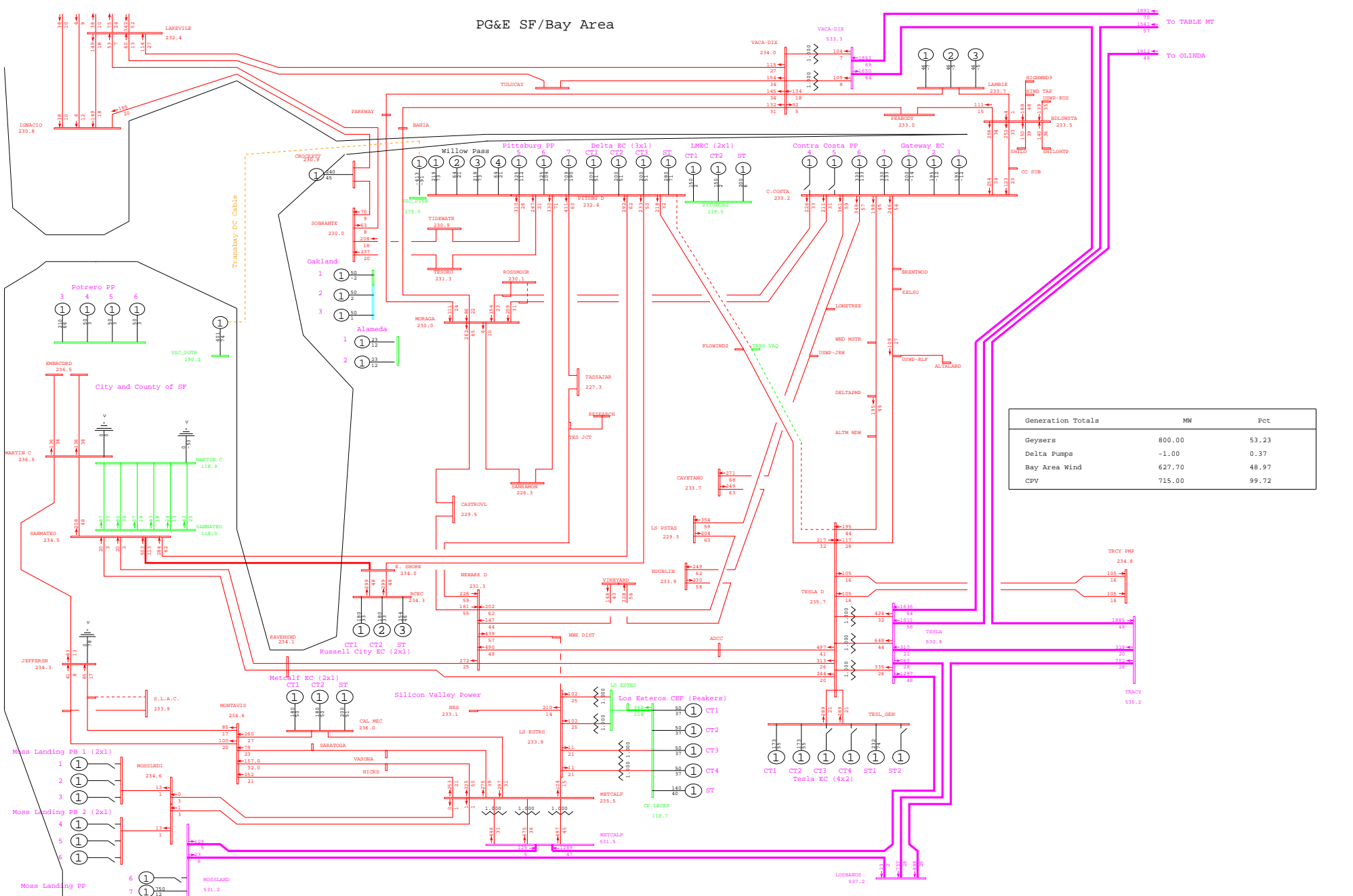
General Electric International, Inc. PSLF Program Fri Sep 26 20:51:45 2008 wlopssv2-2013mrnt_pre_ptsb-147.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-1 PITTSBURG - TESLA C 230kV #2 LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 147

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



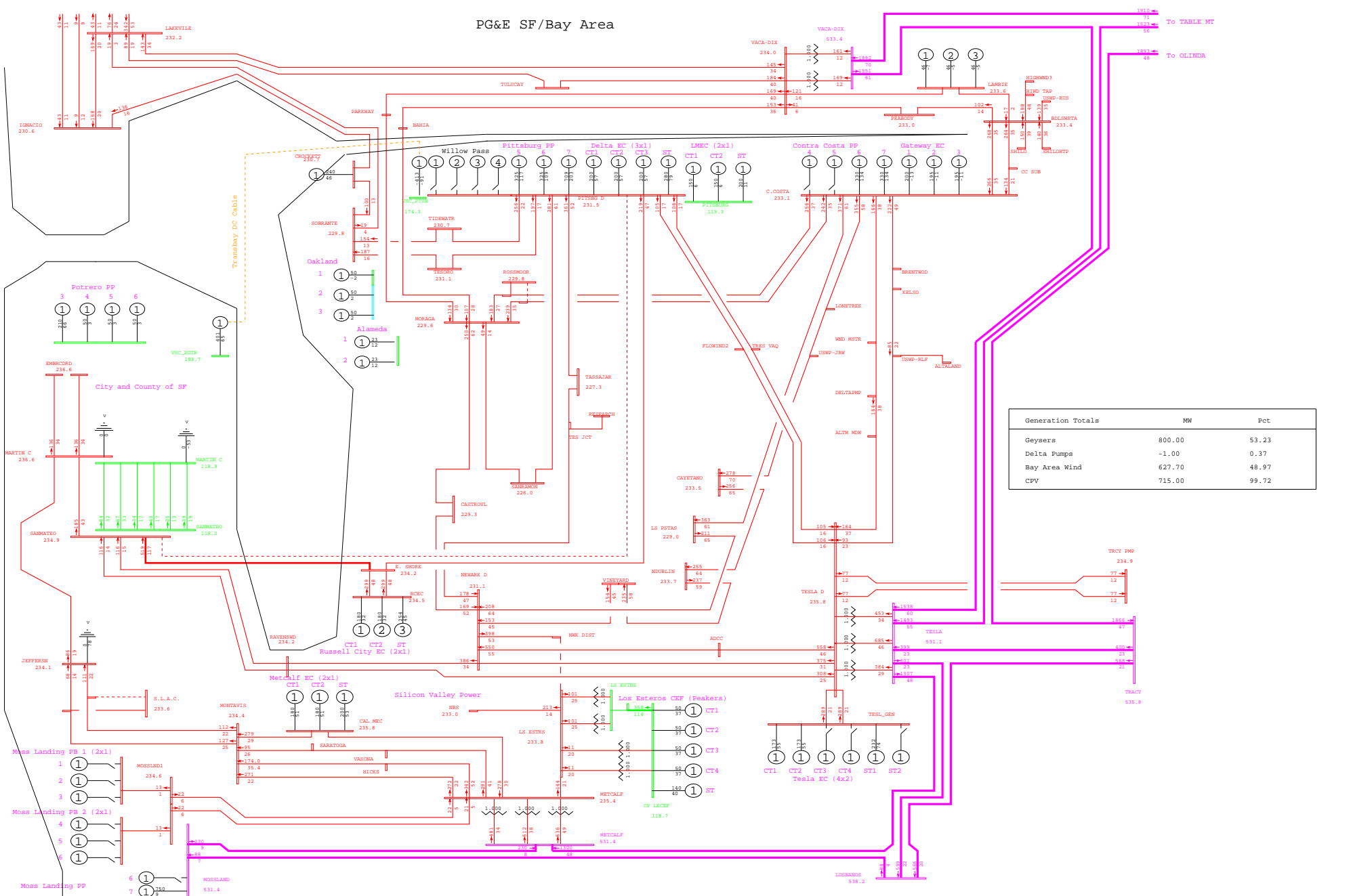
General Electric International, Inc. PSLF Program Fri Sep 26 20:48:36 2008 wlopssv2-2013mrnt_pst_ptsb-147.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 PITTSBURG - TESLA C 230kV #2 LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 147

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



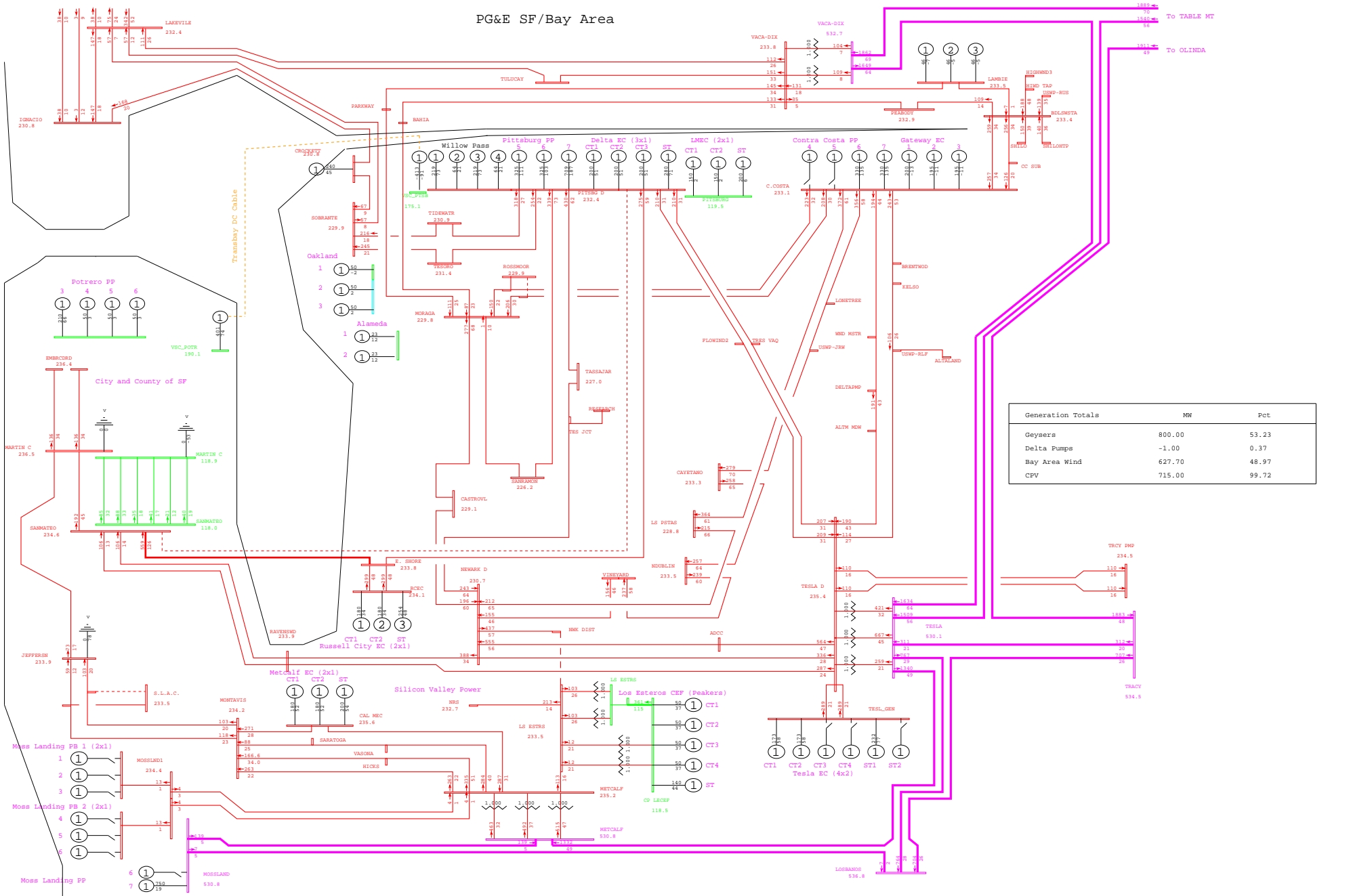
General Electric International, Inc. PSLF Program Fri Sep 26 20:51:46 2008 wlopssv2-2013mrnt_pre_ptsb-148.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 PITTSBURG - SAN MATEO 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 148
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:48:37 2008 wlopssv2-2013mrnt_pst_ptsb-148.sav

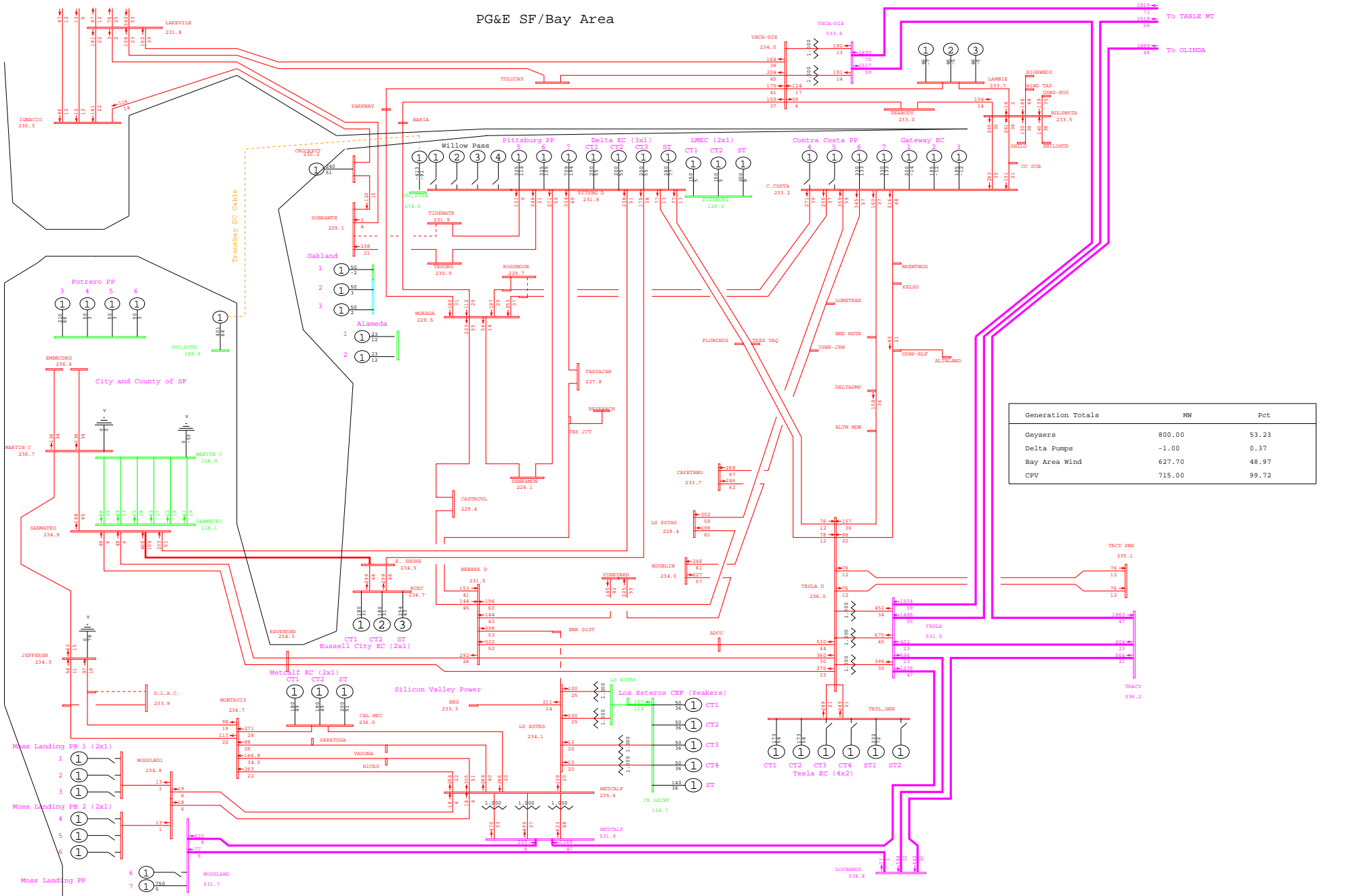


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-1 PITTSBURG - SAN MATEO 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 148

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:51:47 2008 wlopssv2-2013mrnt_pre_ptsb-149.sav

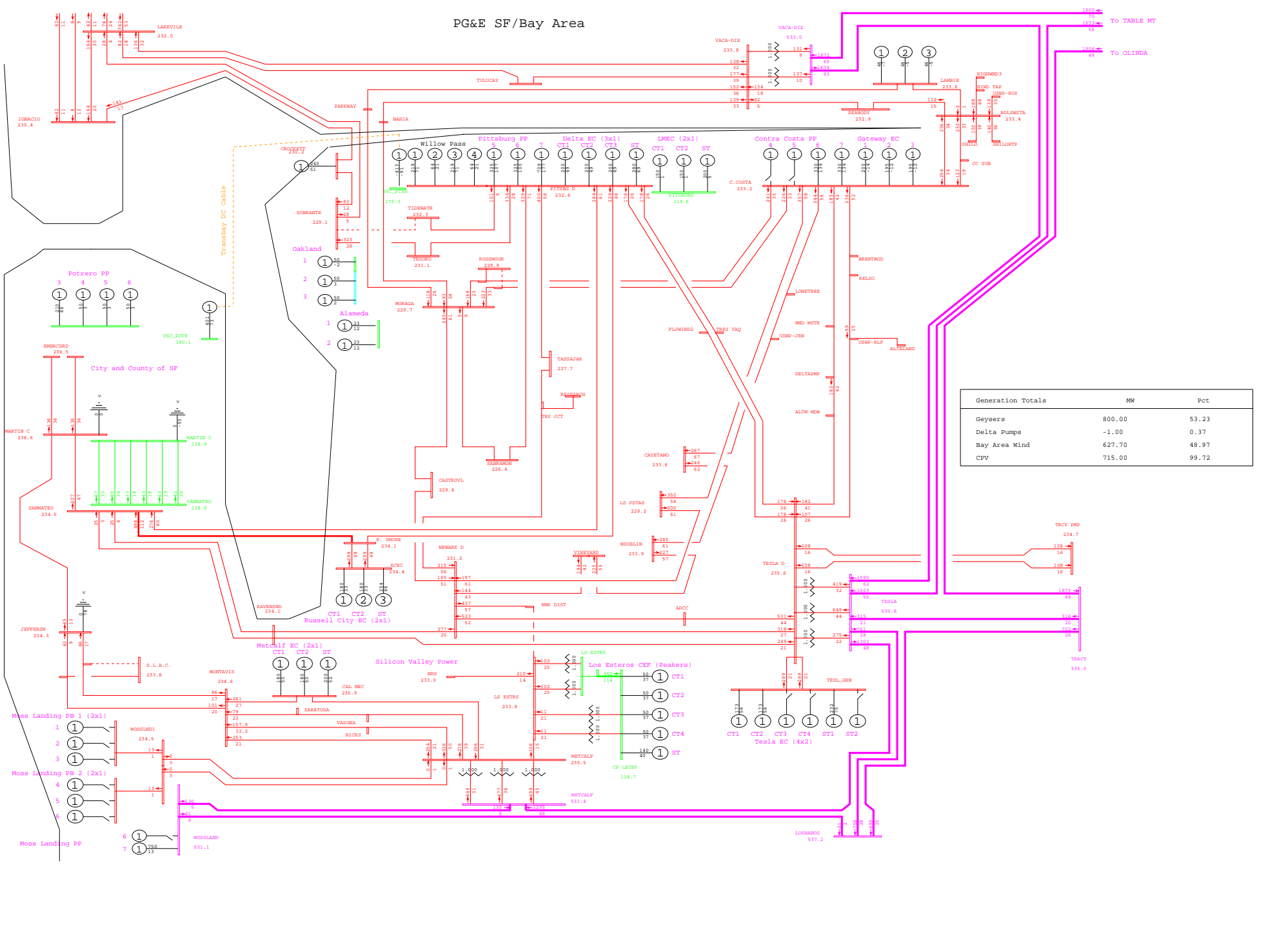


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

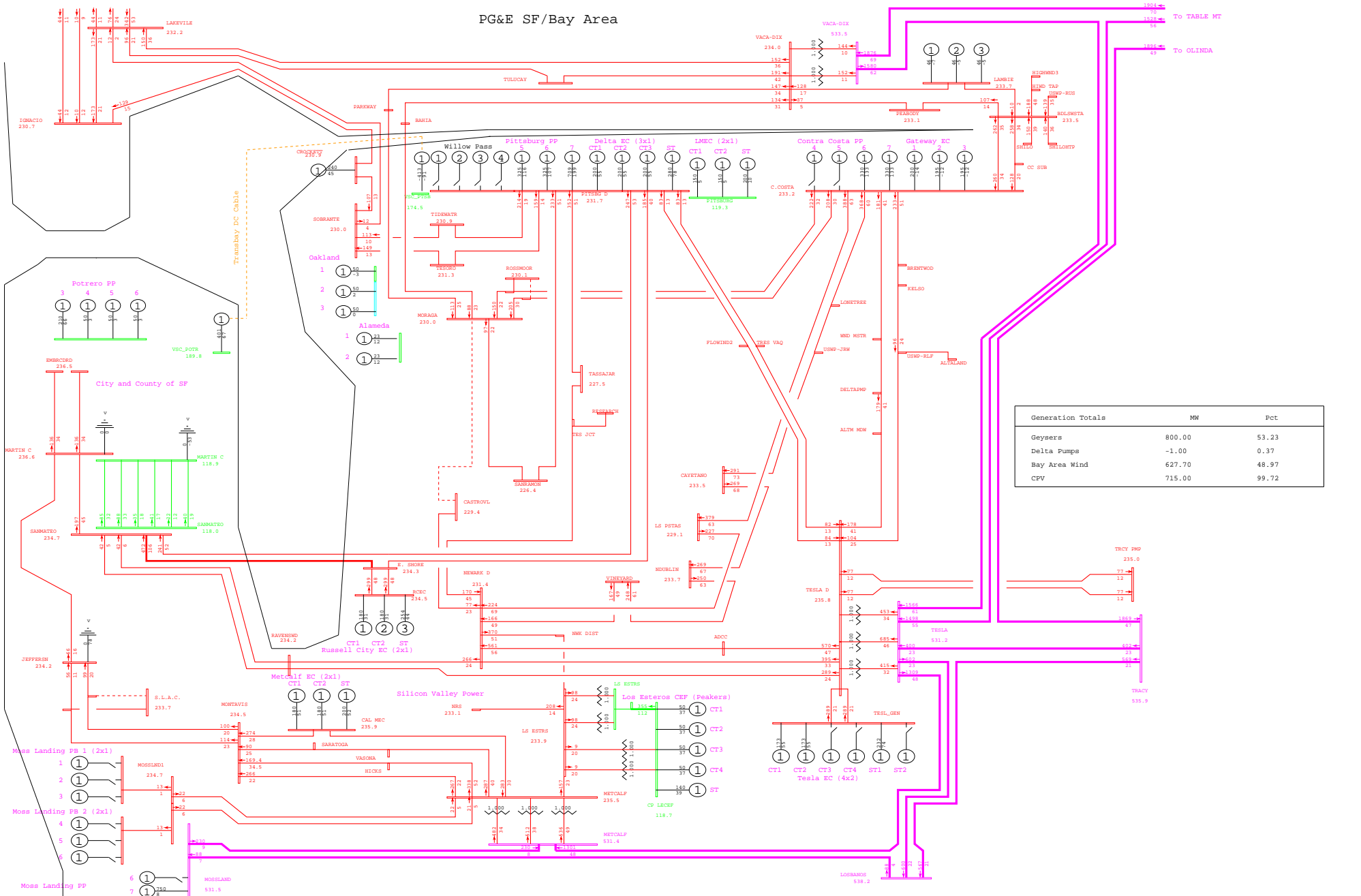
N-1 TIDEWATR - SOBRANTE 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 149

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:51:48 2008 wlopssv2-2013mrnt_pre_ptsb-150.sav

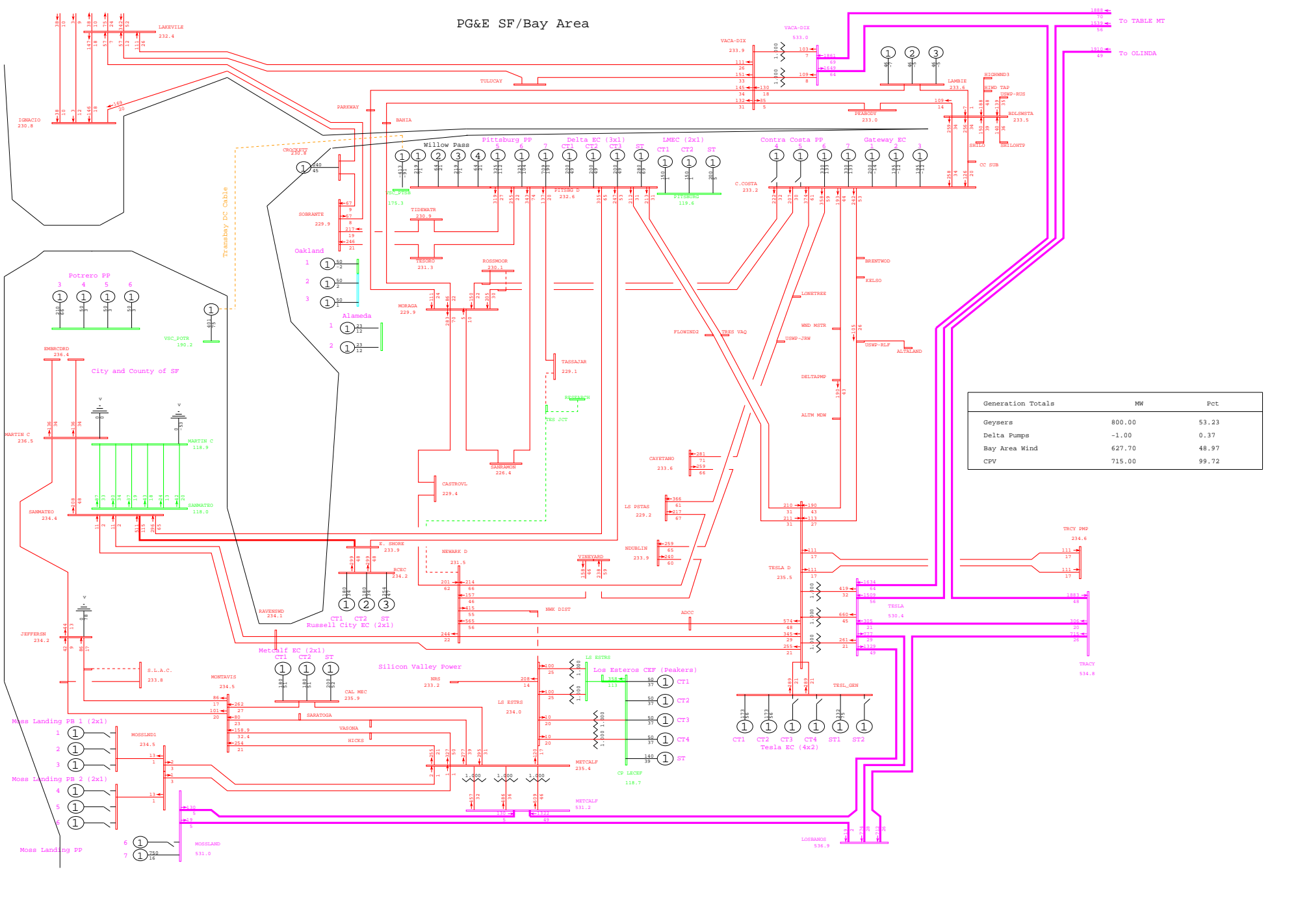


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 MORAGA - CASTROVL 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 150

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:48:40 2008 wlopssv2-2013mrnt_pst_ptsb-152.sav

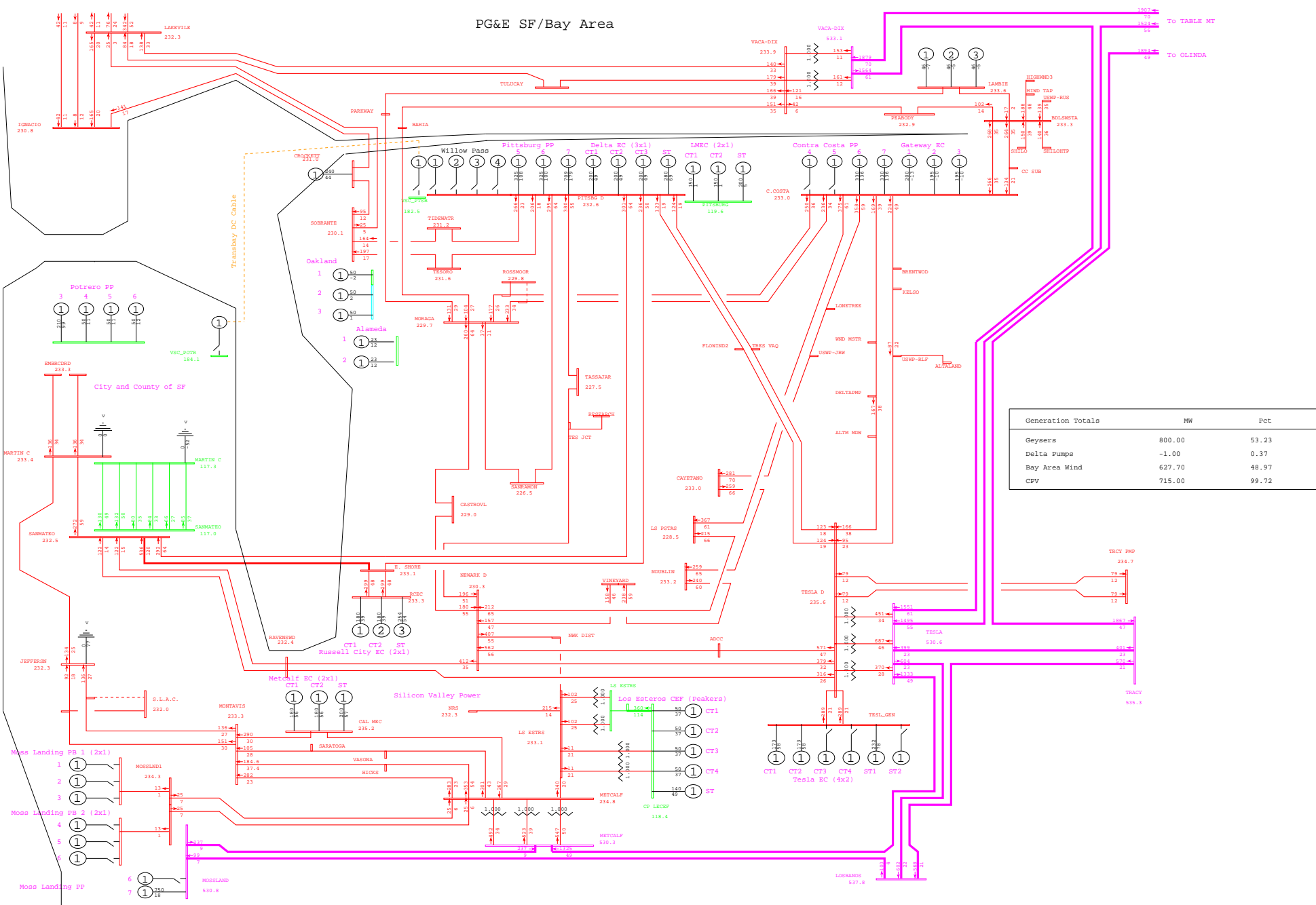


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 TASSAJAR - NEWARK E 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 152

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

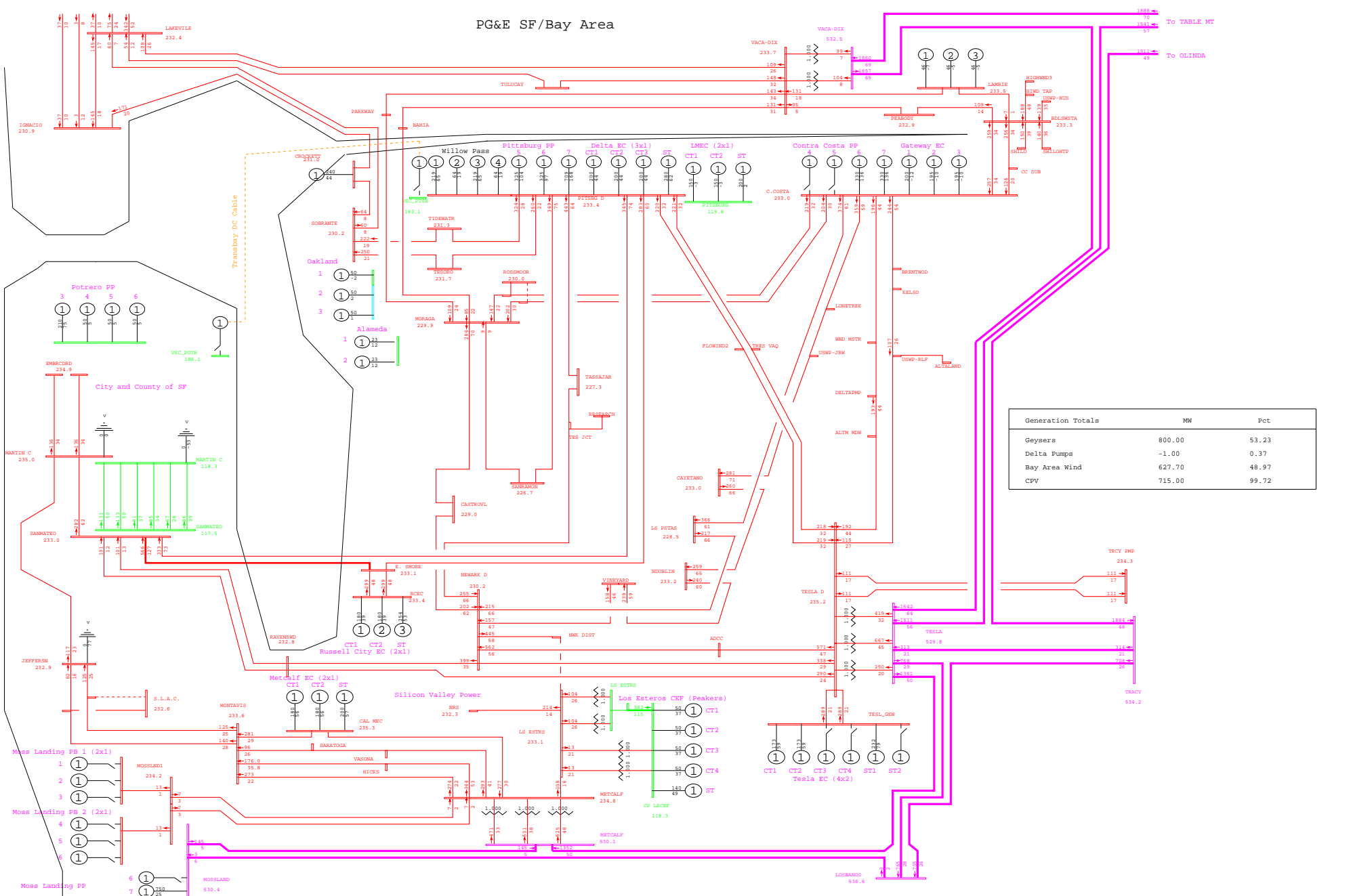
PG&E SF/Bay Area




Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:48:41 2008 wlopssv2-2013mrnt_pst_ptsb-154.sav

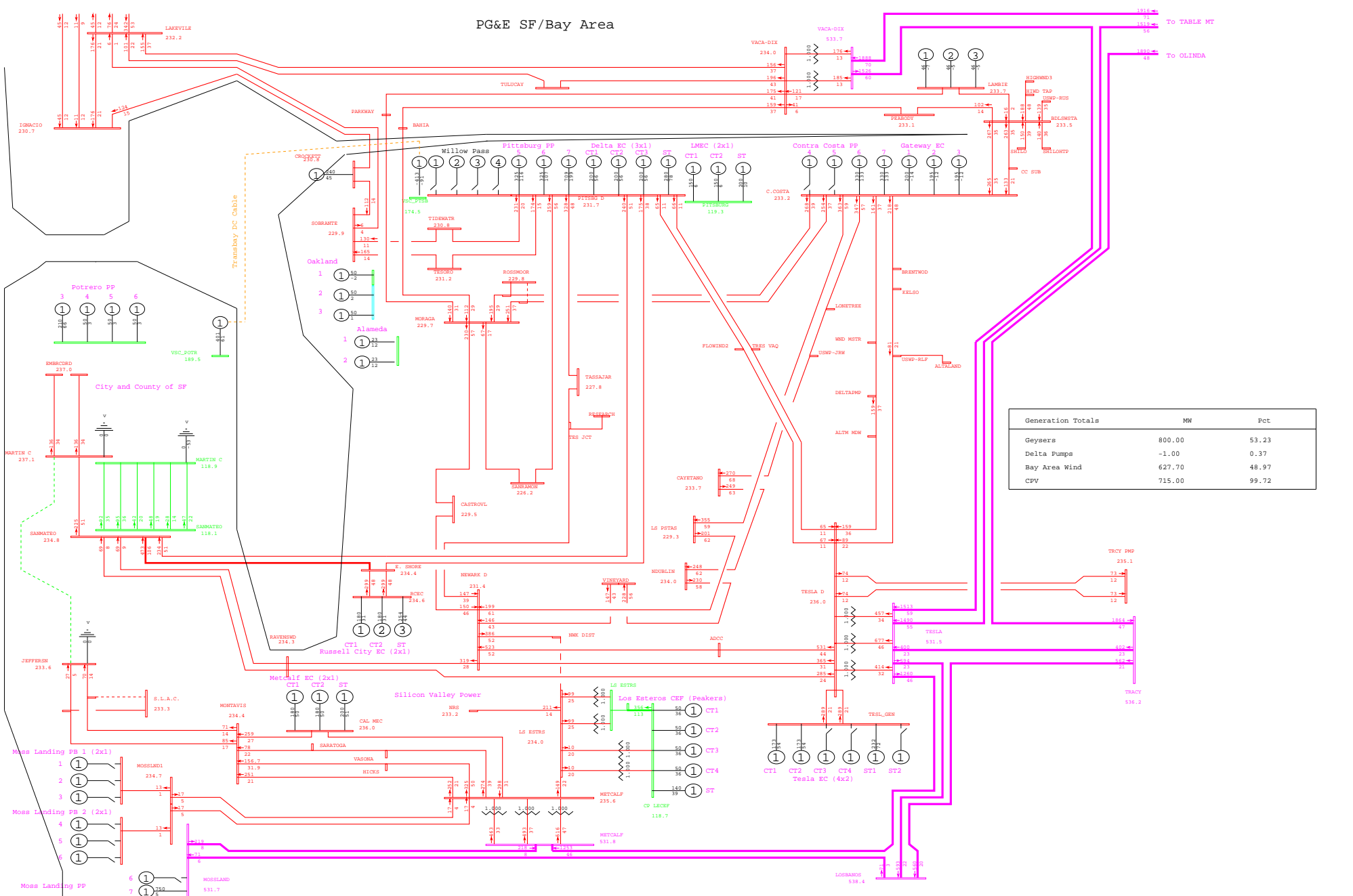


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 PITTSBURG - POTRERO D.C. LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 154

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



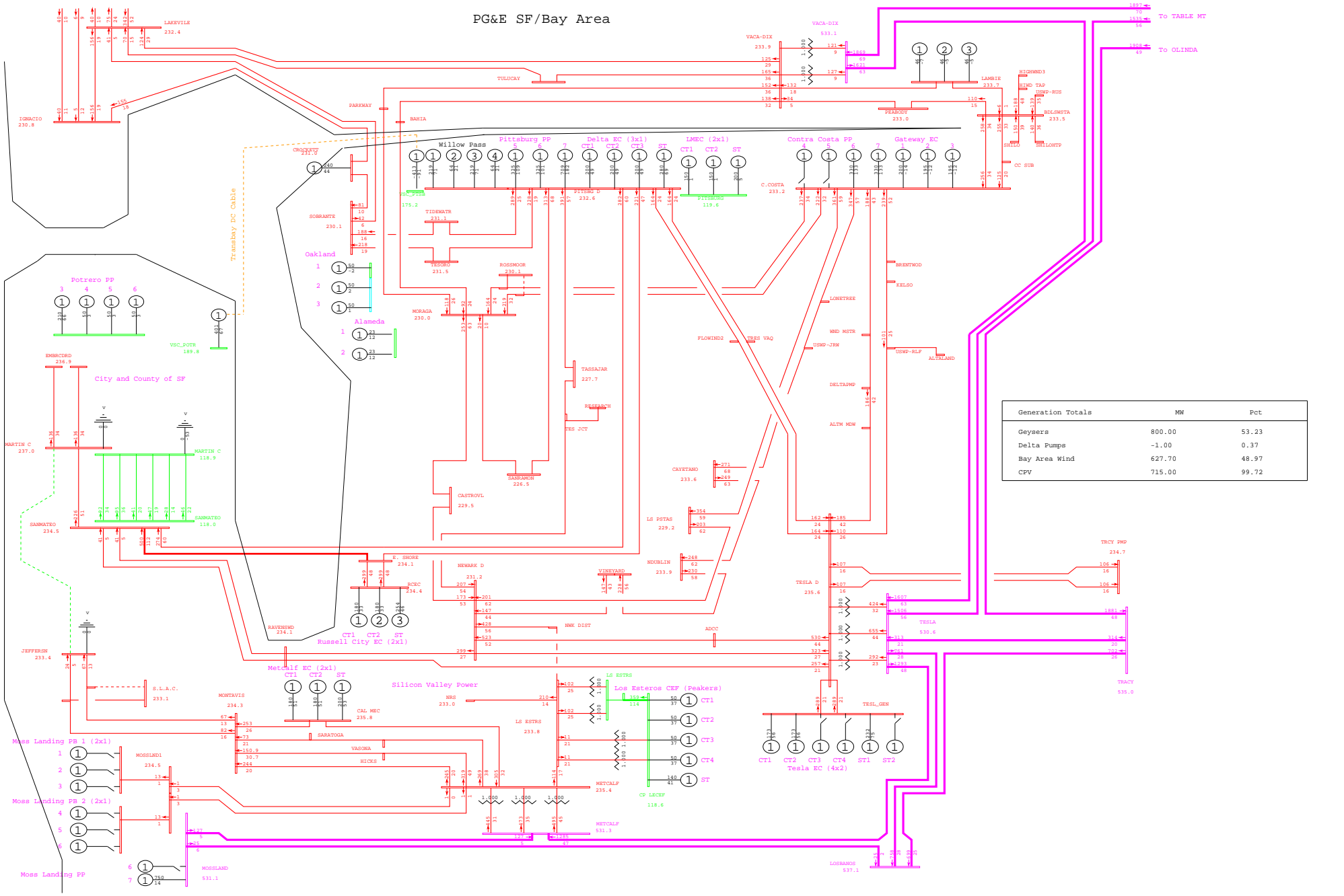
General Electric International, Inc. PSLF Program Fri Sep 26 20:51:51 2008 wlopssv2-2013mrnt_pre_ptsb-157.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 JEFFERSON - MARTIN 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 157
 MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:48:42 2008 wlopssv2-2013mrnt_pst_ptsb-157.sav

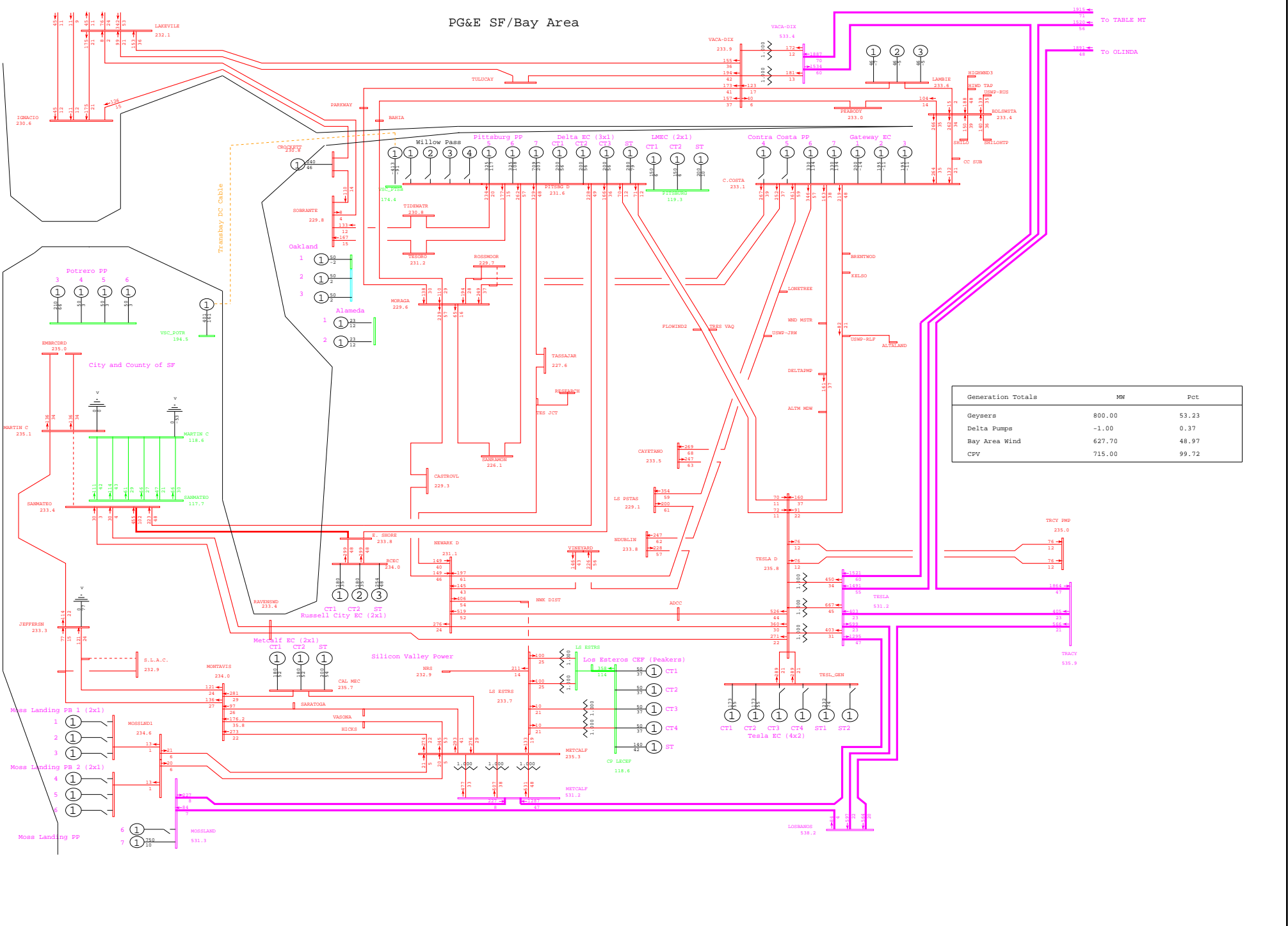


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 JEFFERSON - MARTIN 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 157

MW/% rate
 bayarea_2013_PGE_v4.cdw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:51:52 2008 wlopssv2-2013mrnt_pre_ptsb-158.sav

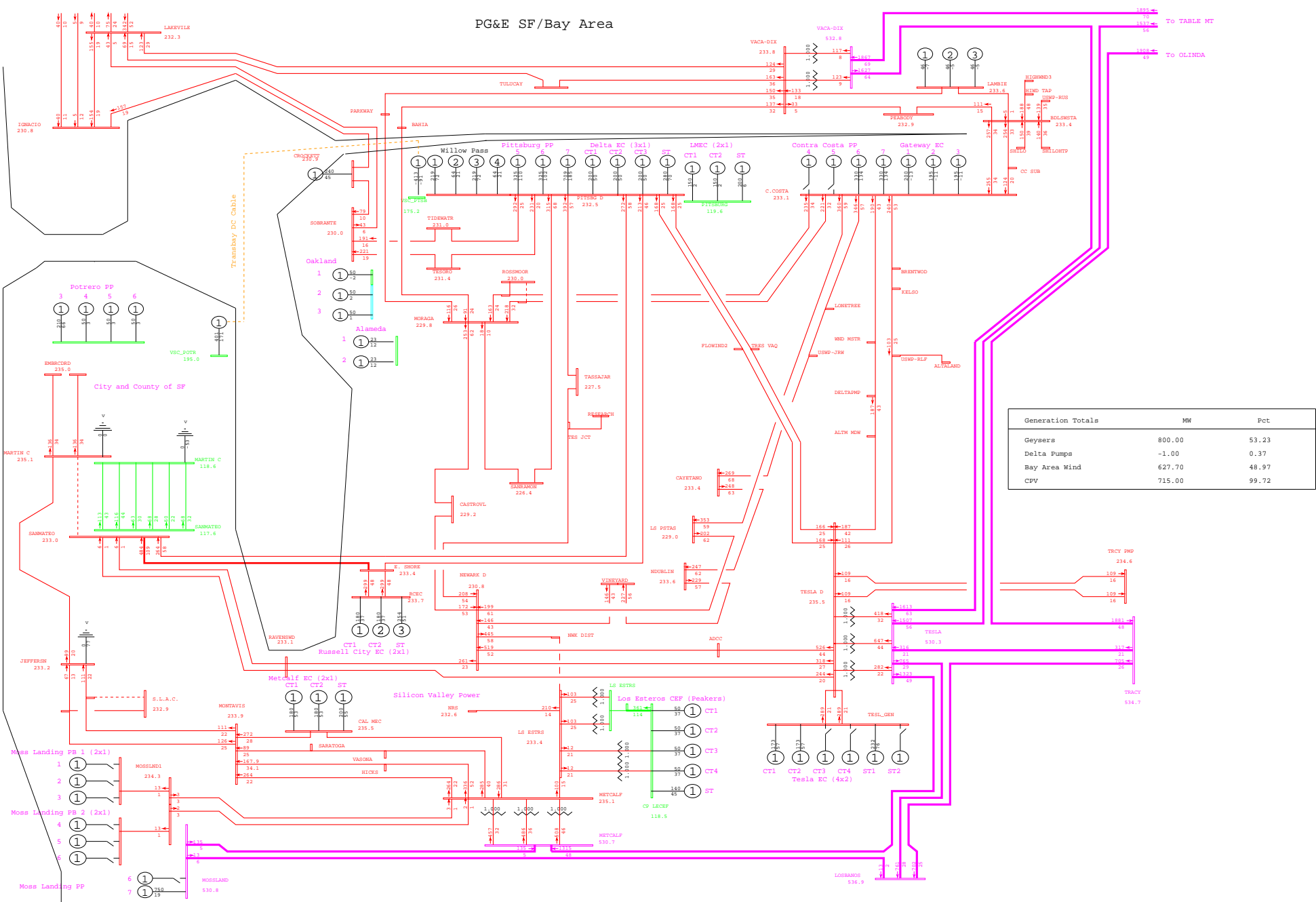


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

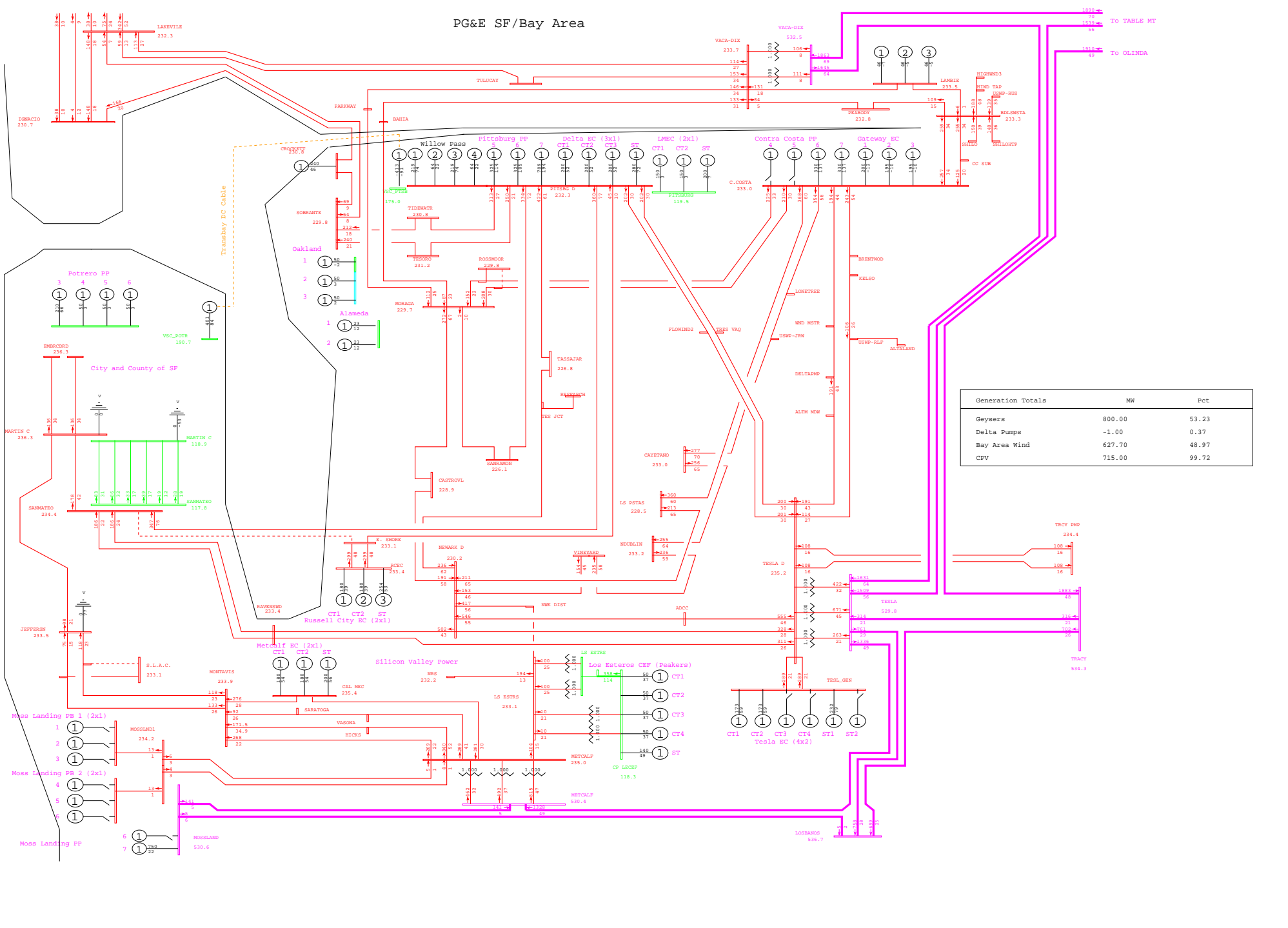
N-1 SAN MATEO - MARTIN 230kV CABLE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 158

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



PG&E SF/Bay Area



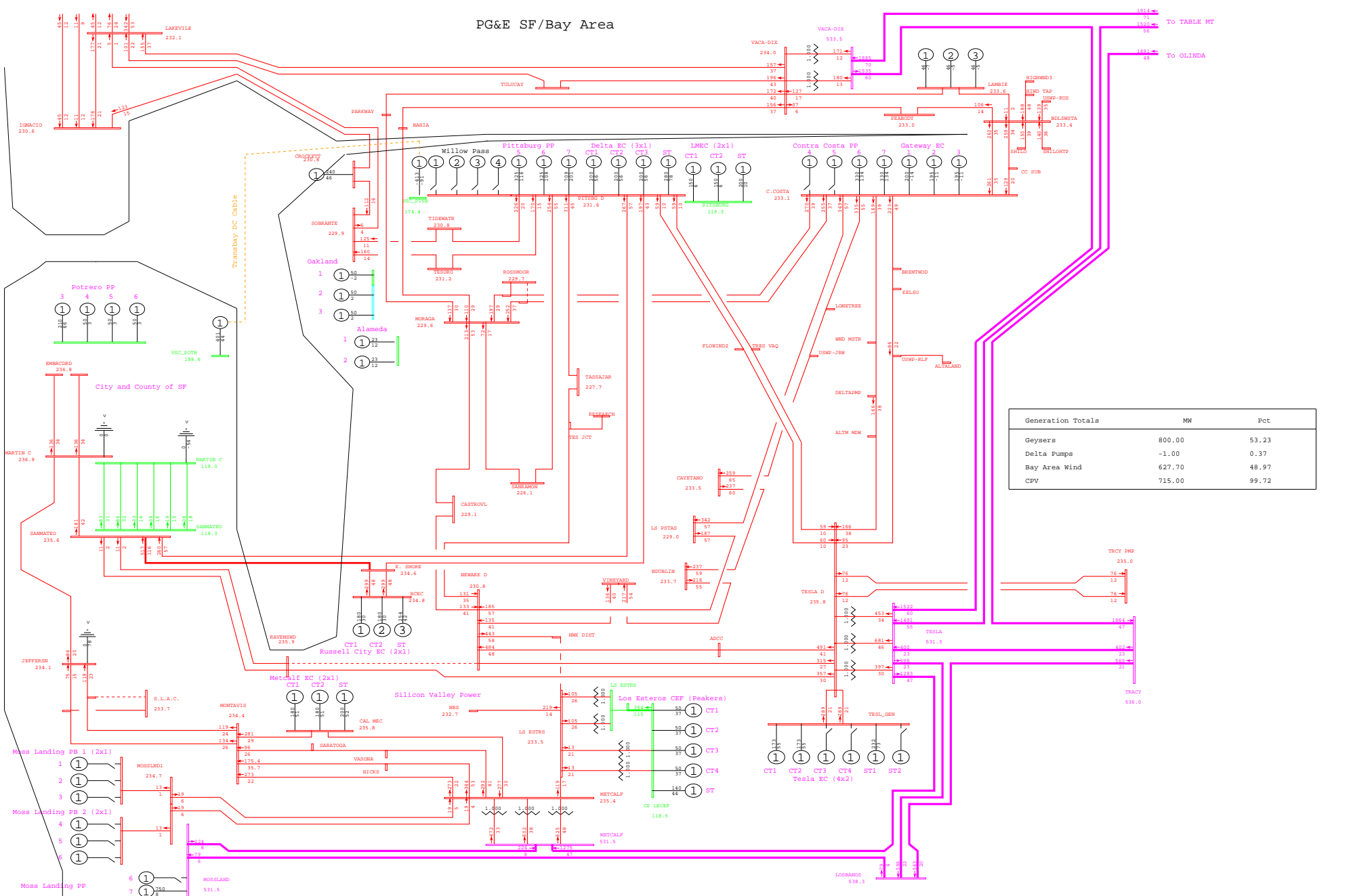
General Electric International, Inc. PSLF Program Fri Sep 26 20:48:44 2008 wlopssv2-2013mrnt_pst_ptsb-159.sav



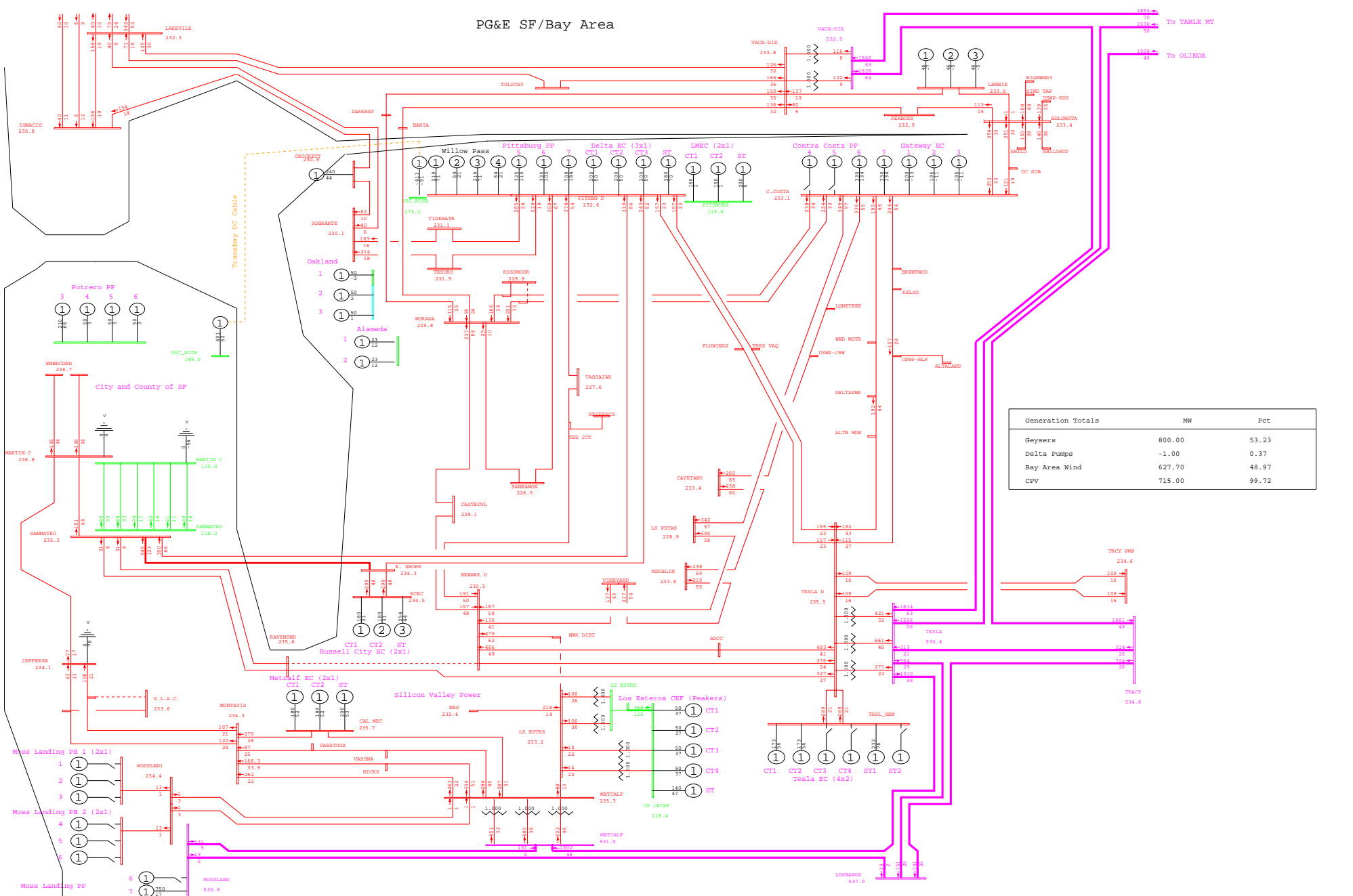
PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 EAST SHORE - SAN MATEO 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 159
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:48:44 2008 wlopssv2-2013mrnt_pst_ptsb-160.sav

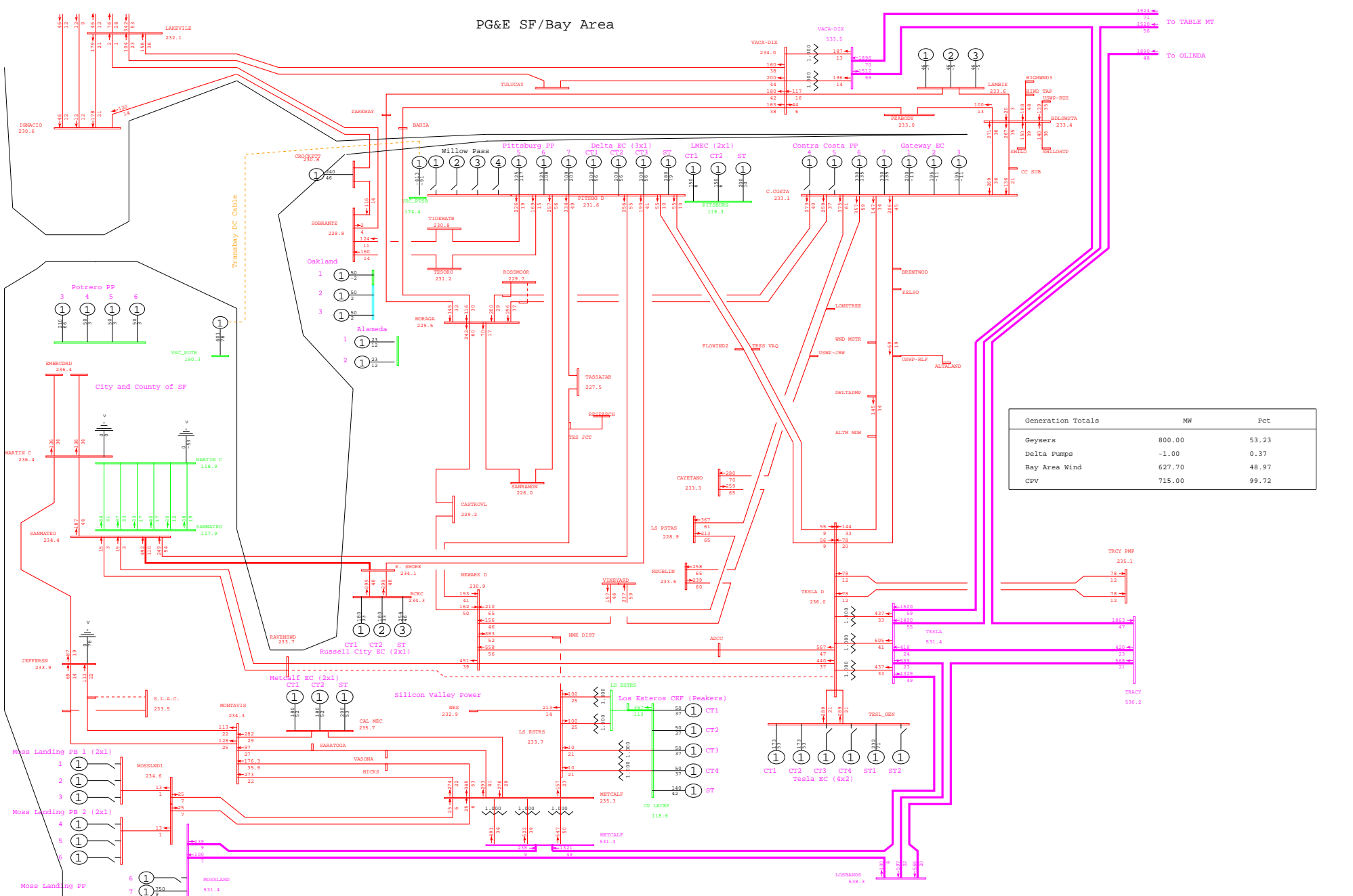


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 NEWARK - RAVENSWOOD 230KV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 160

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



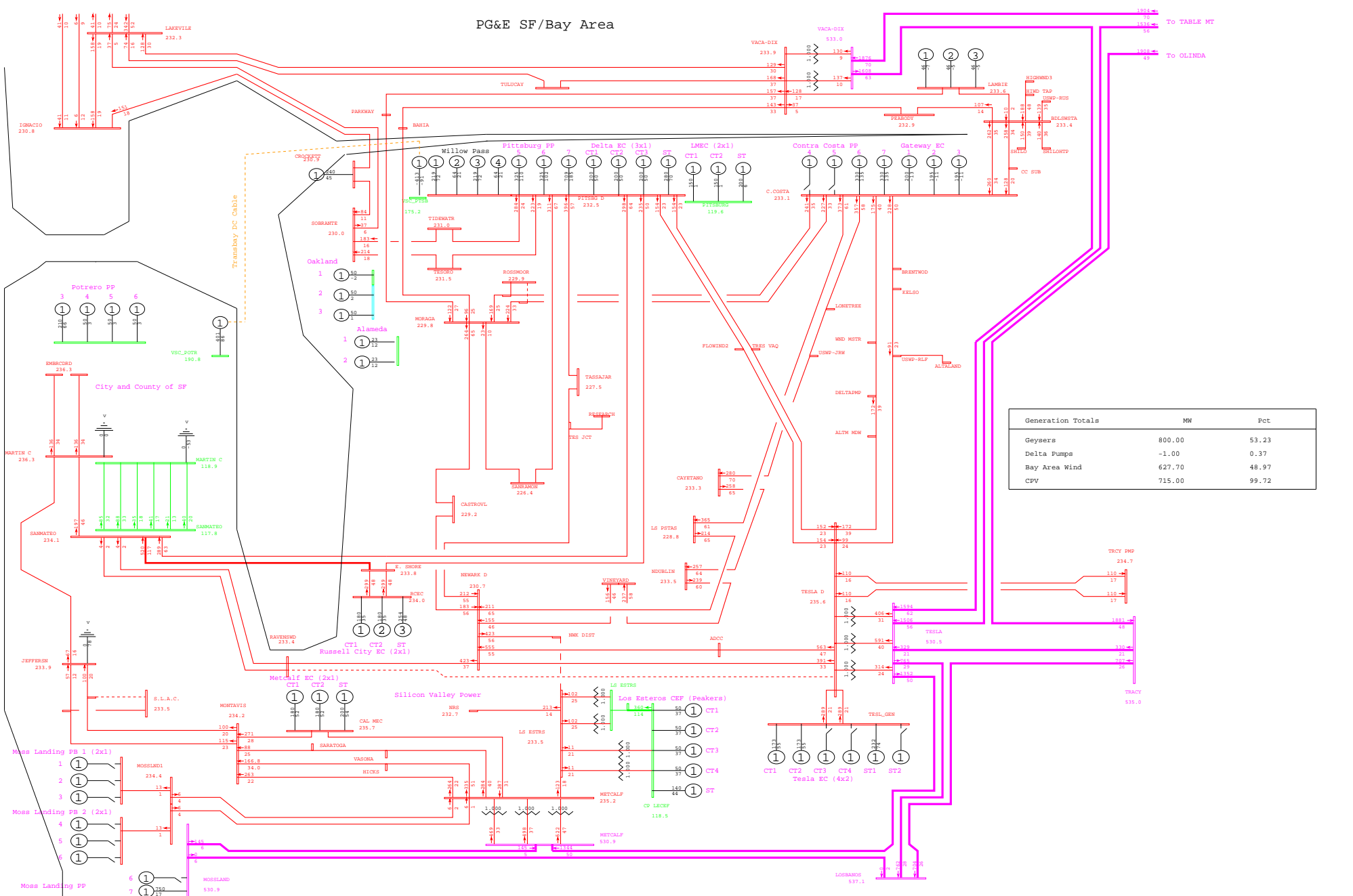
General Electric International, Inc. PSLF Program Fri Sep 26 20:51:55 2008 wlopssv2-2013mrnt_pre_ptsb-161.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 TESLA - RAVENSWOOD 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 161
 MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:48:45 2008 wlopssv2-2013mrnt_pst_ptsb-161.sav

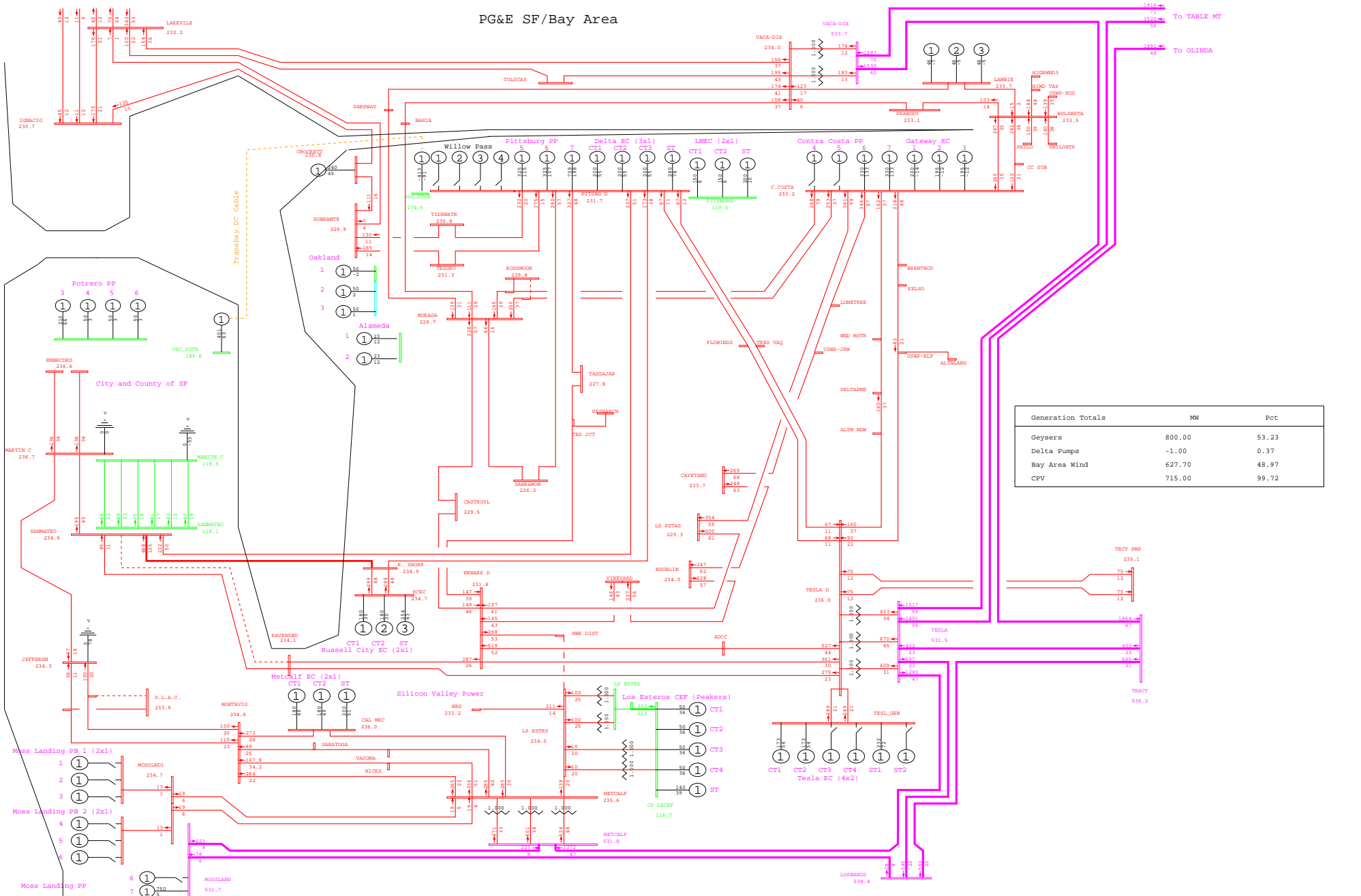


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-1 TESLA - RAVENSWOOD 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 161

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



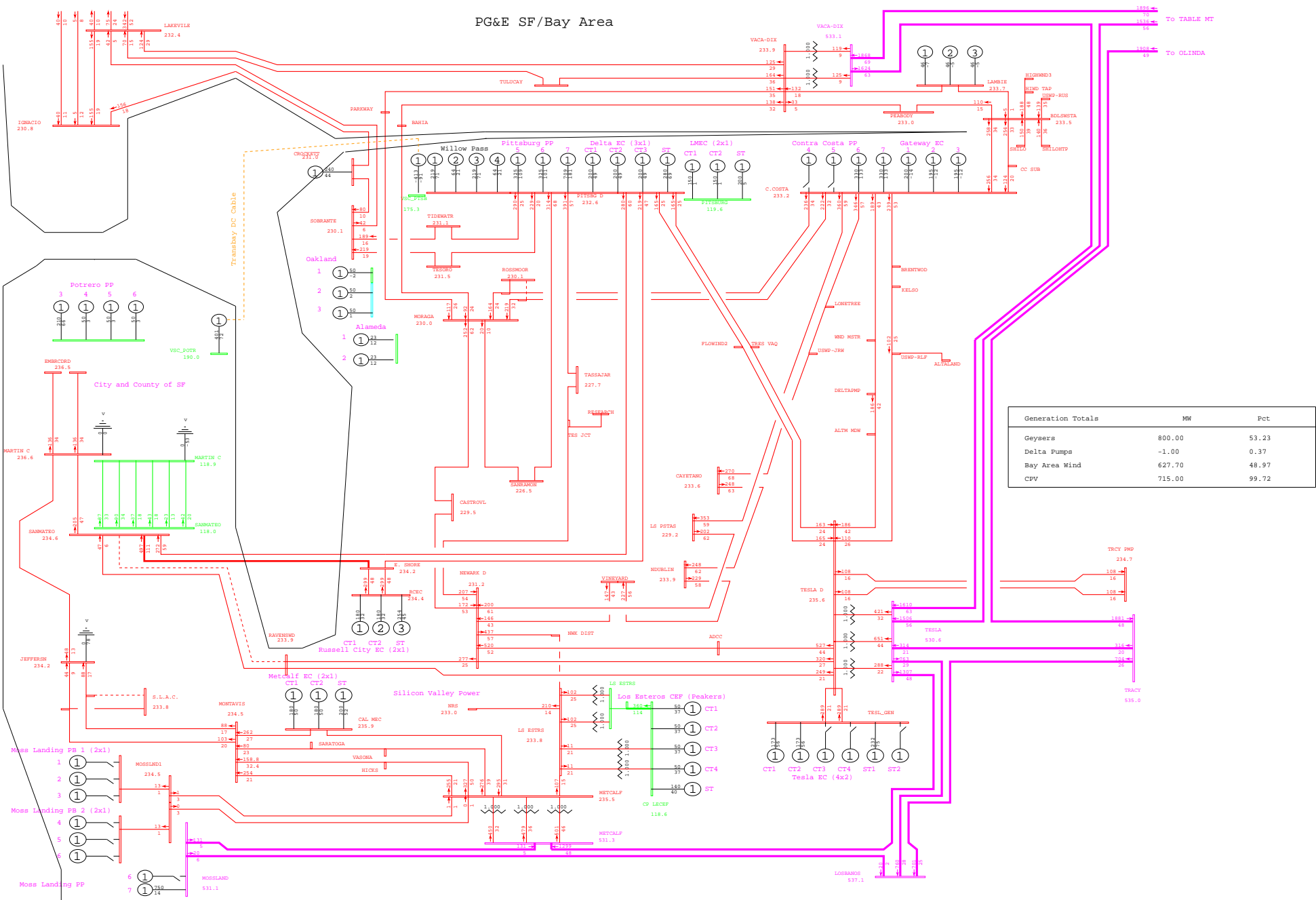
General Electric International, Inc. PSLF Program Fri Sep 26 20:51:56 2008 wlopssv2-2013mrnt_pre_ptsb-162.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 SAN MATEO - RAVENSWOOD #1 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 162

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

General Electric International, Inc. PSLF Program Fri Sep 26 20:48:46 2008 wlopssv2-2013mrnt_pst_ptsb-162.sav

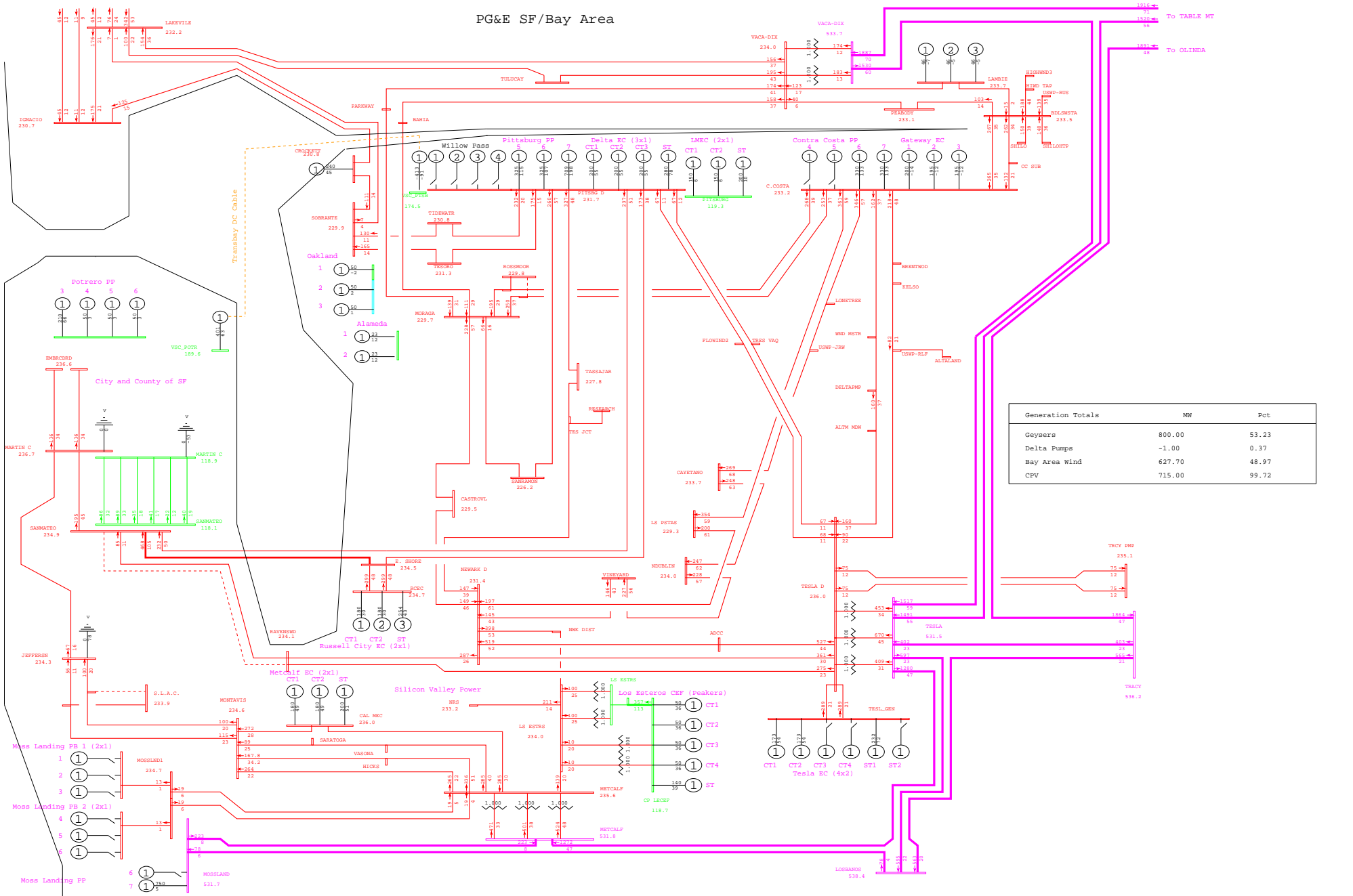


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-1 SAN MATEO - RAVENSWOOD #1 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 162

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:51:57 2008 wlopssv2-2013mrnt_pre_ptsb-163.sav

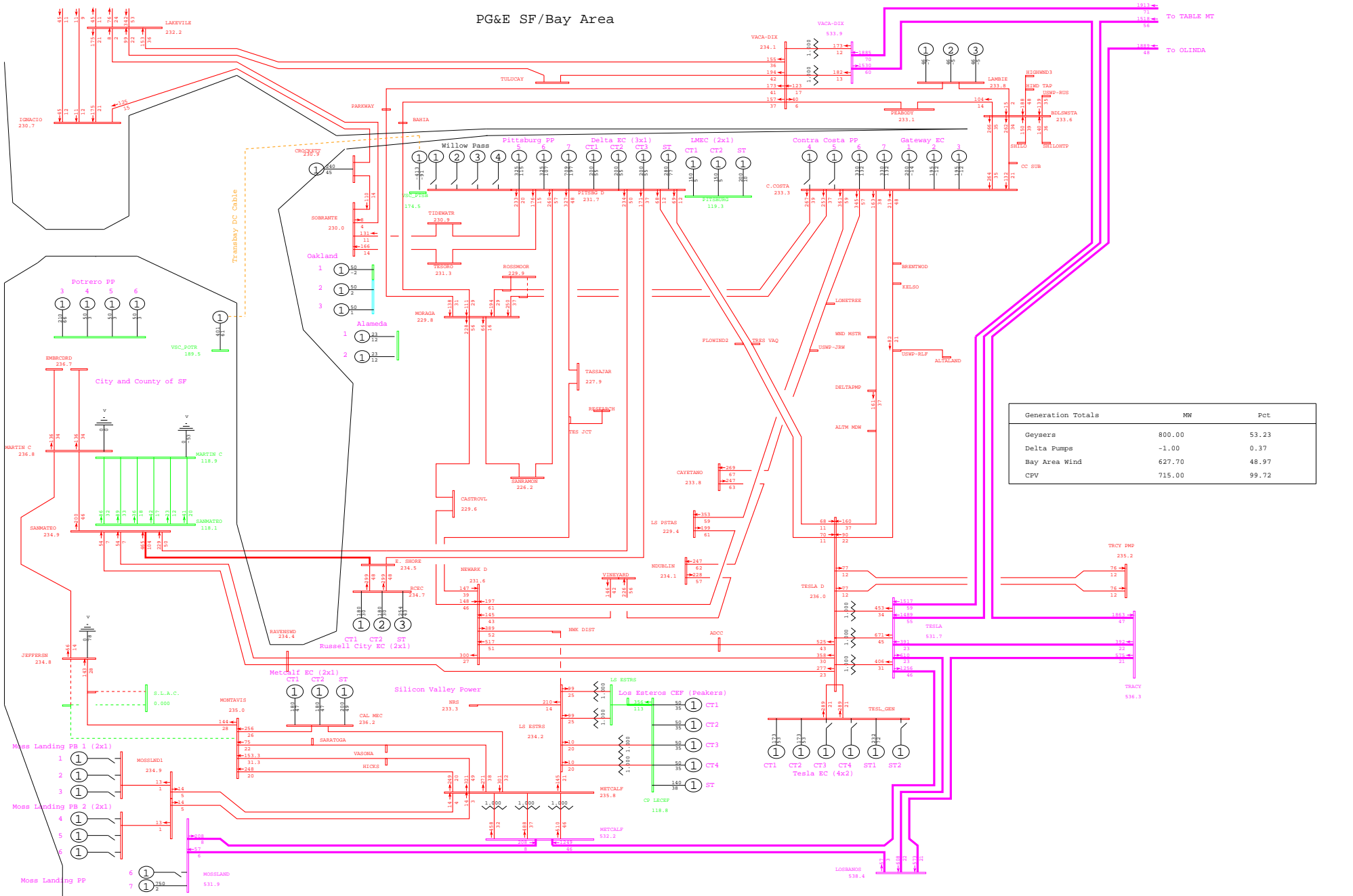


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 SAN MATEO - RAVENSWOOD #2 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 163

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:51:58 2008 wlopssv2-2013mrnt_pre_ptsb-164.sav

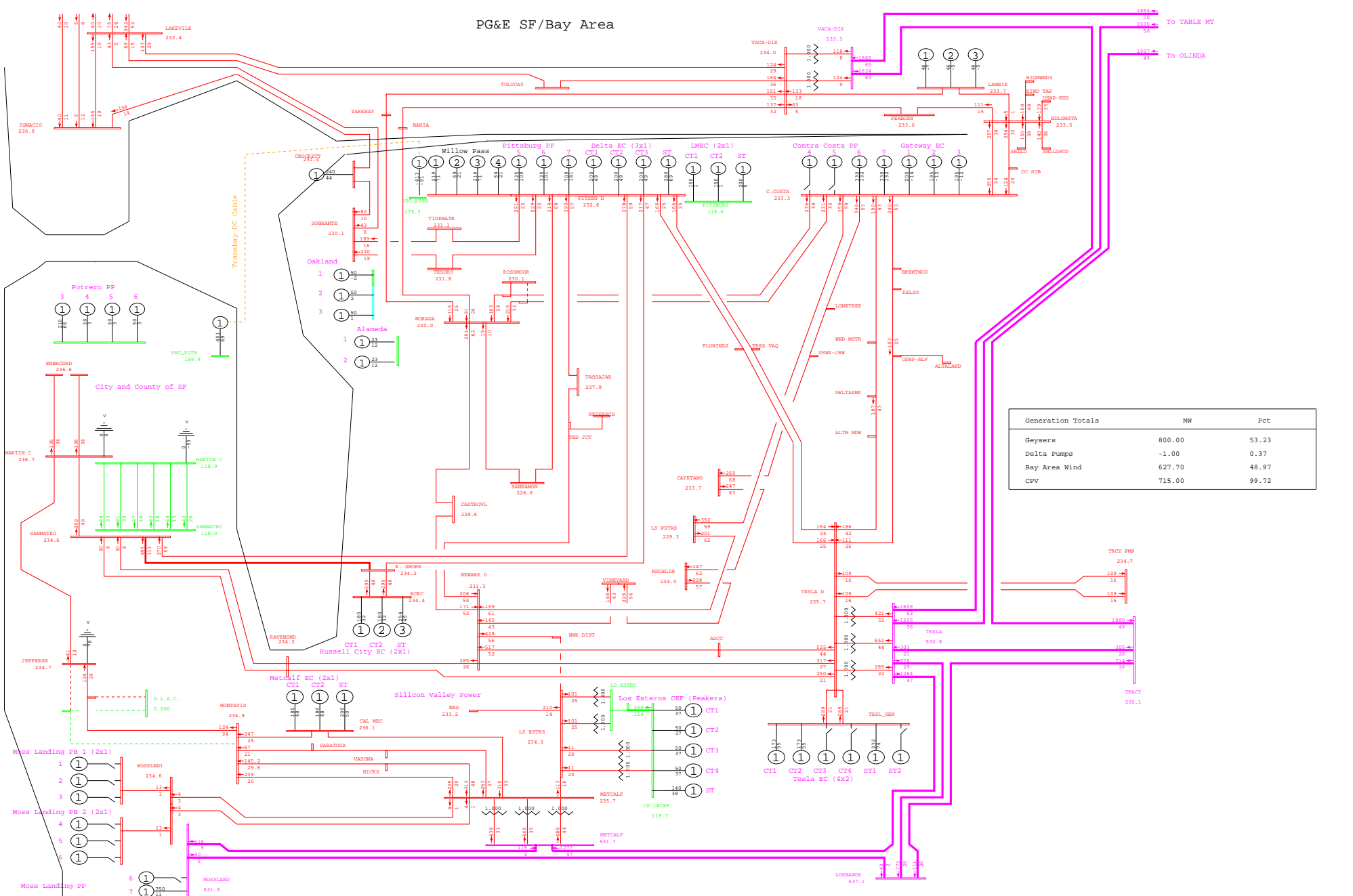


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 MONTA VISTA - JEFFERSON #1 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 164

MW/% rate
 bayarea_2013_PGE_v4.cdw
 Rating = 2

PG&E SF/Bay Area



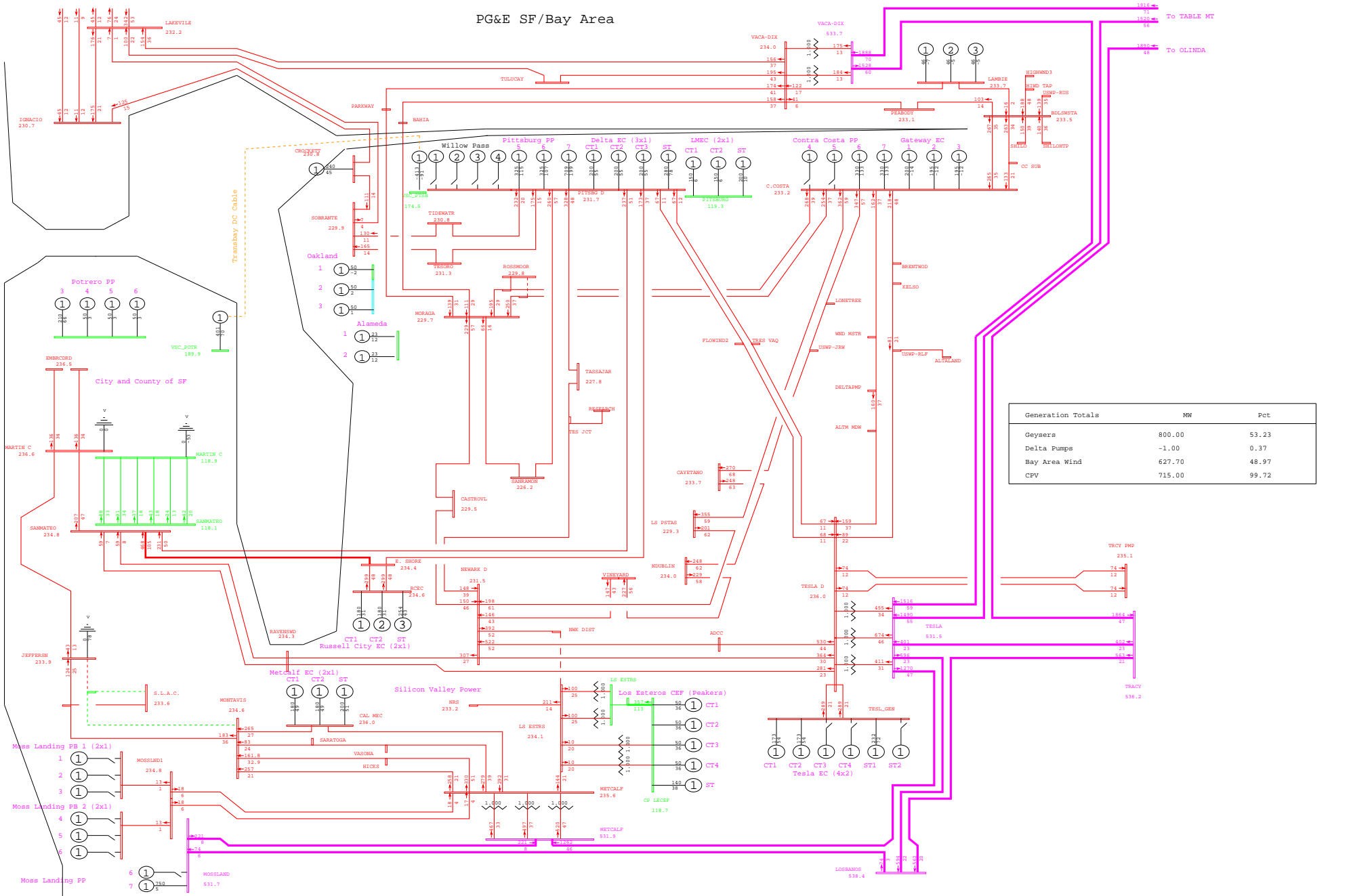
General Electric International, Inc. PSLF Program Fri Sep 26 20:48:48 2008 wlopssv2-2013mrnt_pst_ptsb-164.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 MONTA VISTA - JEFFERSON #1 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 164
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



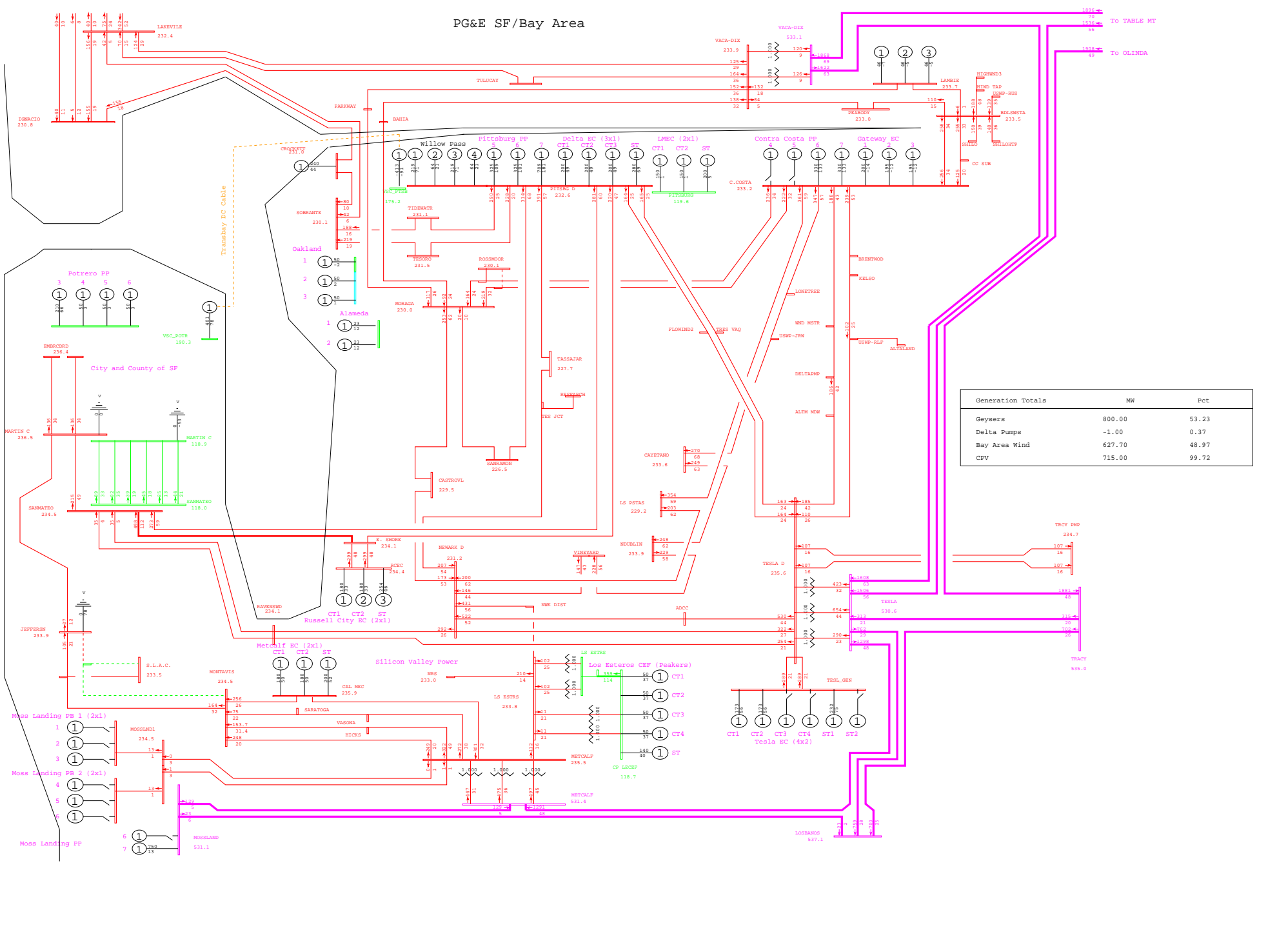
General Electric International, Inc. PSLF Program Fri Sep 26 20:51:59 2008 wlopssv2-2013mrnt_pre_ptsb-165.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 MONTA VISTA - JEFFERSON #2 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 165
 MW/% rate
 bayarea_2013_PGE_v4.cfw
 Rating = 2

PG&E SF/Bay Area



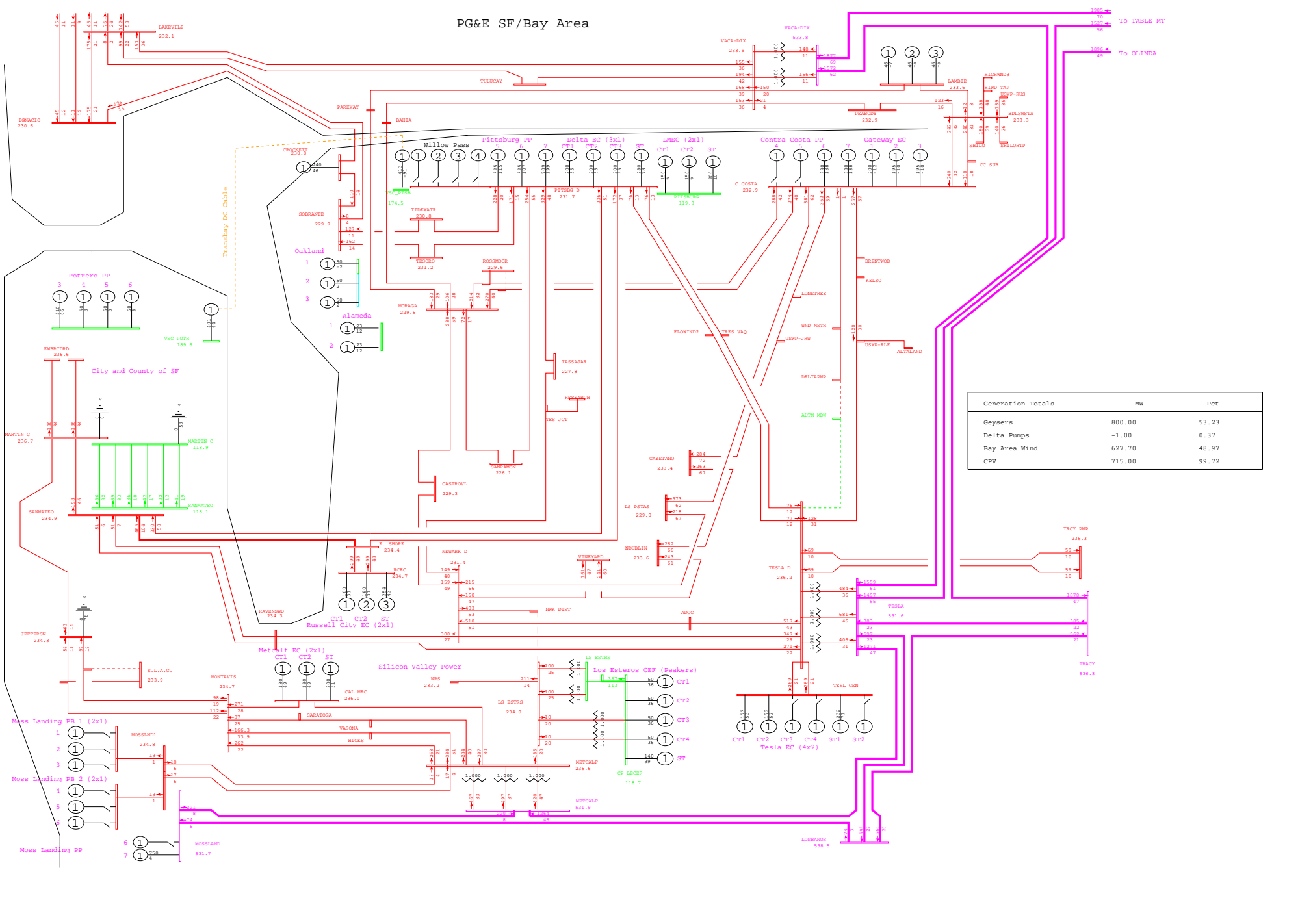
General Electric International, Inc. PSLF Program Fri Sep 26 20:48:49 2008 wlopssv2-2013mrnt_pst_ptsb-165.sav




PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 MONTA VISTA - JEFFERSON #2 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 165
 MW/% rate
 bayarea_2013_PGE_v4.cfw
 Rating = 2

PG&E SF/Bay Area



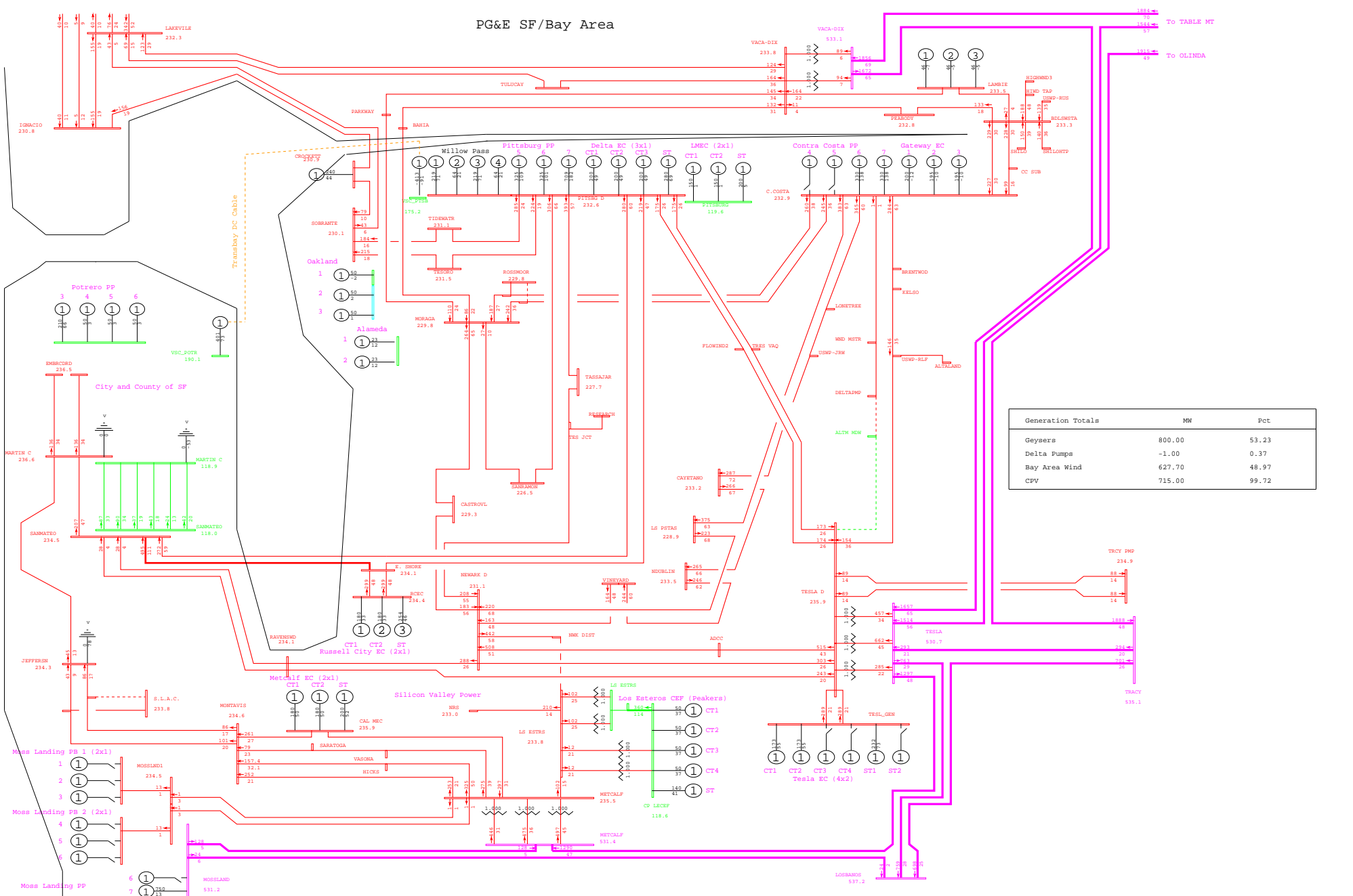
General Electric International, Inc. PSLF Program Fri Sep 26 20:52:00 2008 wlopssv2-2013mrnt_pre_ptsb-167.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

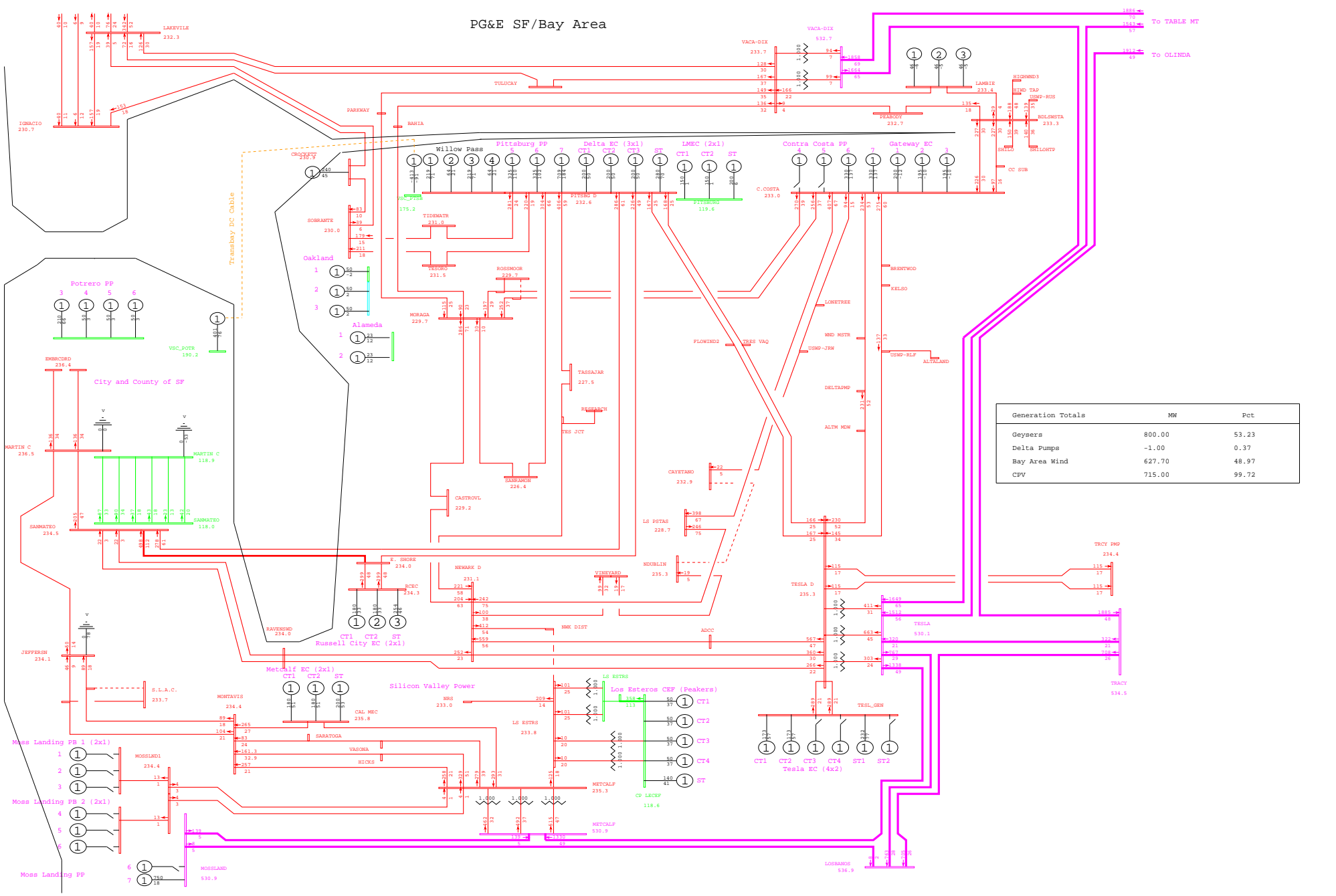
N-1 DELTAPMP - TESLA D 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 167

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

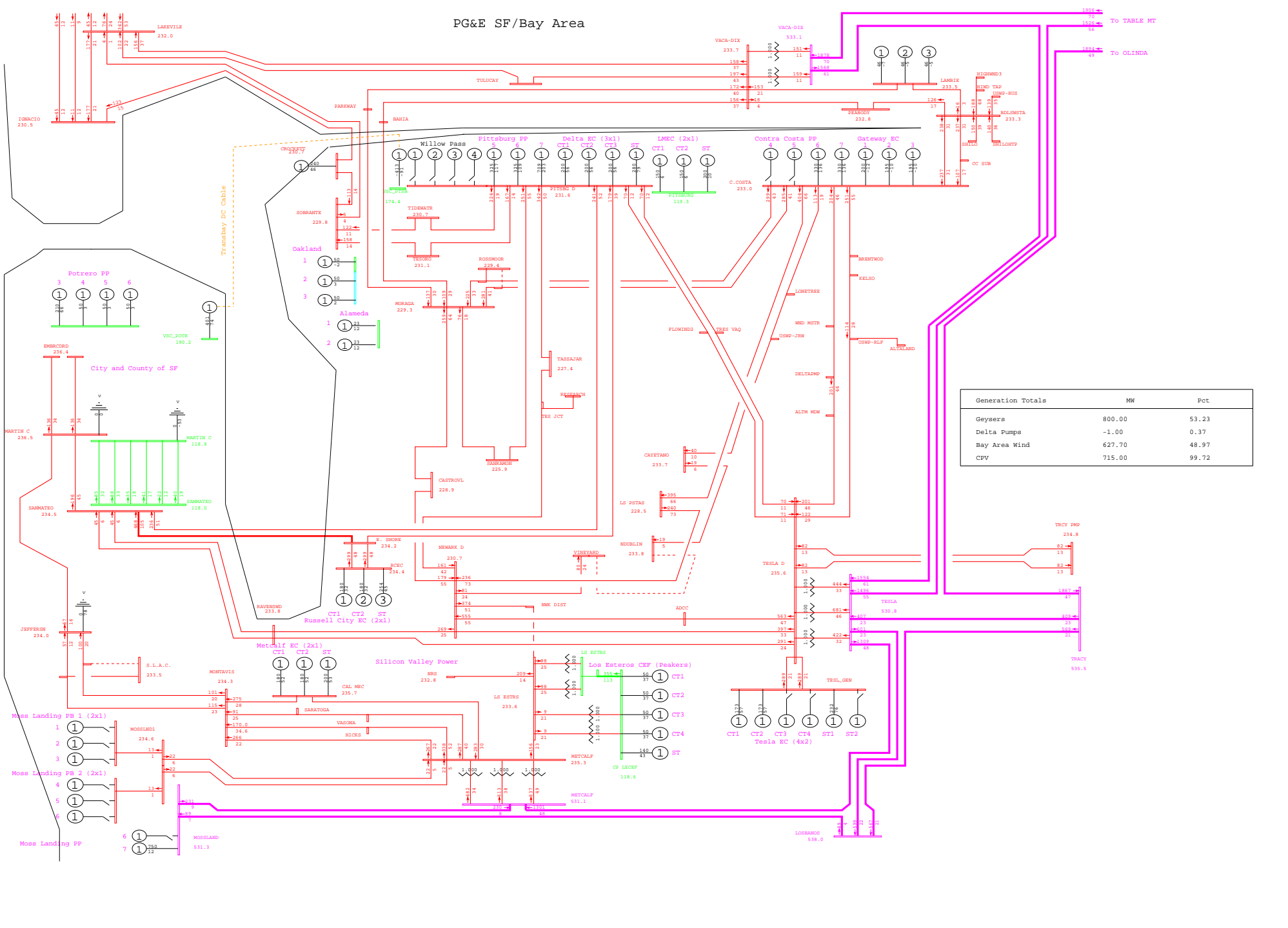
PG&E SF/Bay Area



PG&E SF/Bay Area



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:02 2008 wlopssv2-2013mrnt_pre_ptsb-170.sav

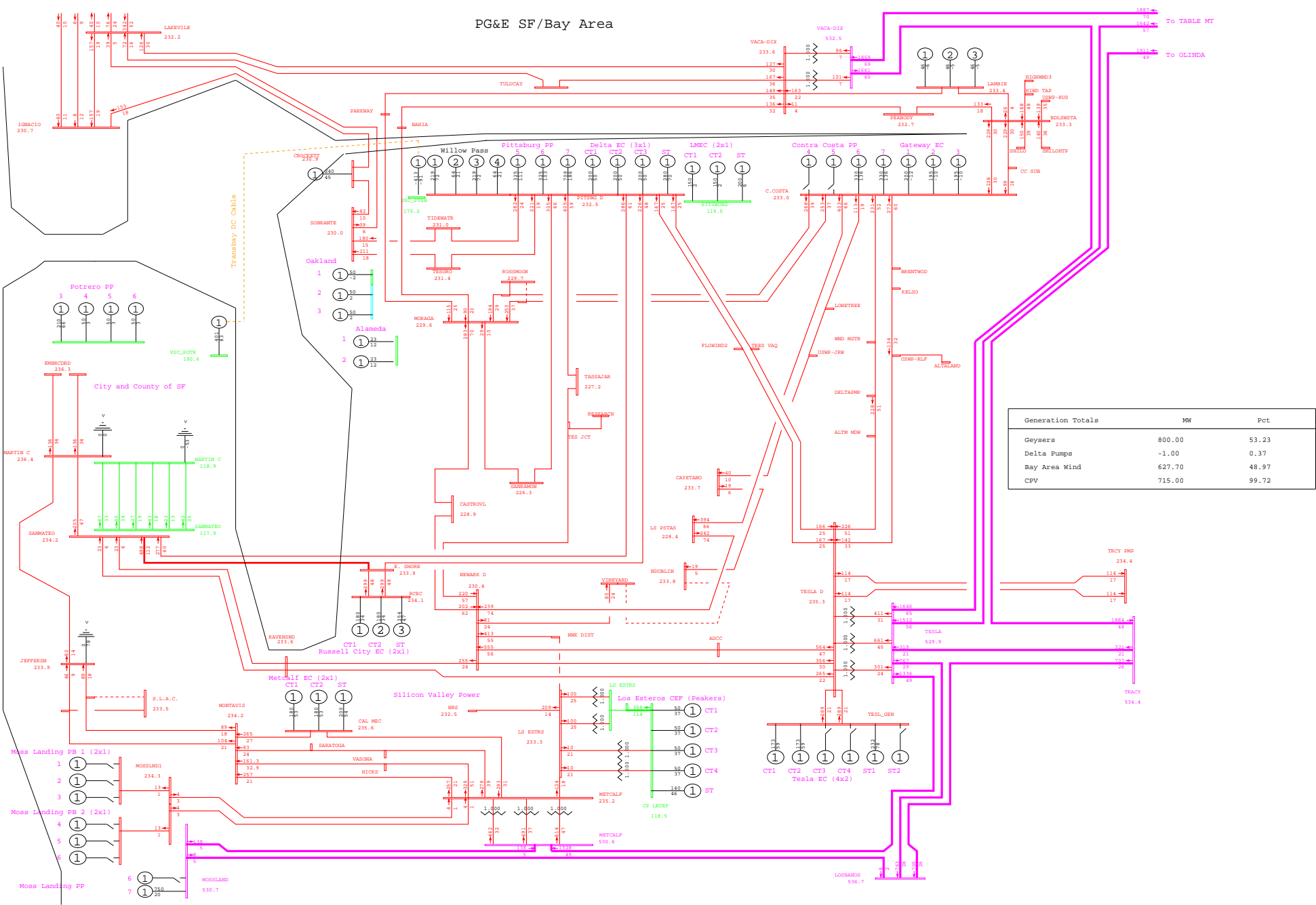


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 NDUBLIN-VINYARD 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 170

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

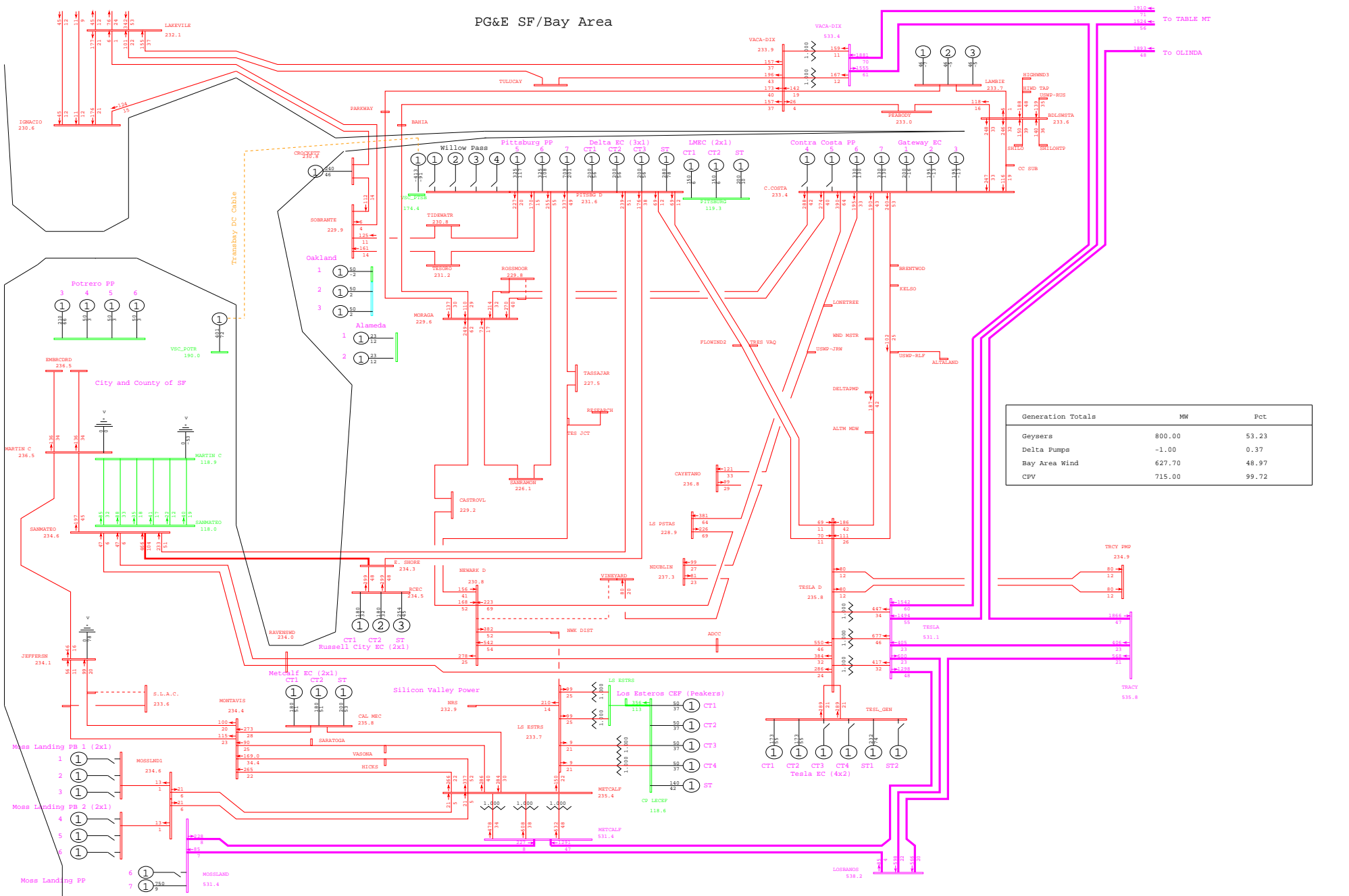
PG&E SF/Bay Area



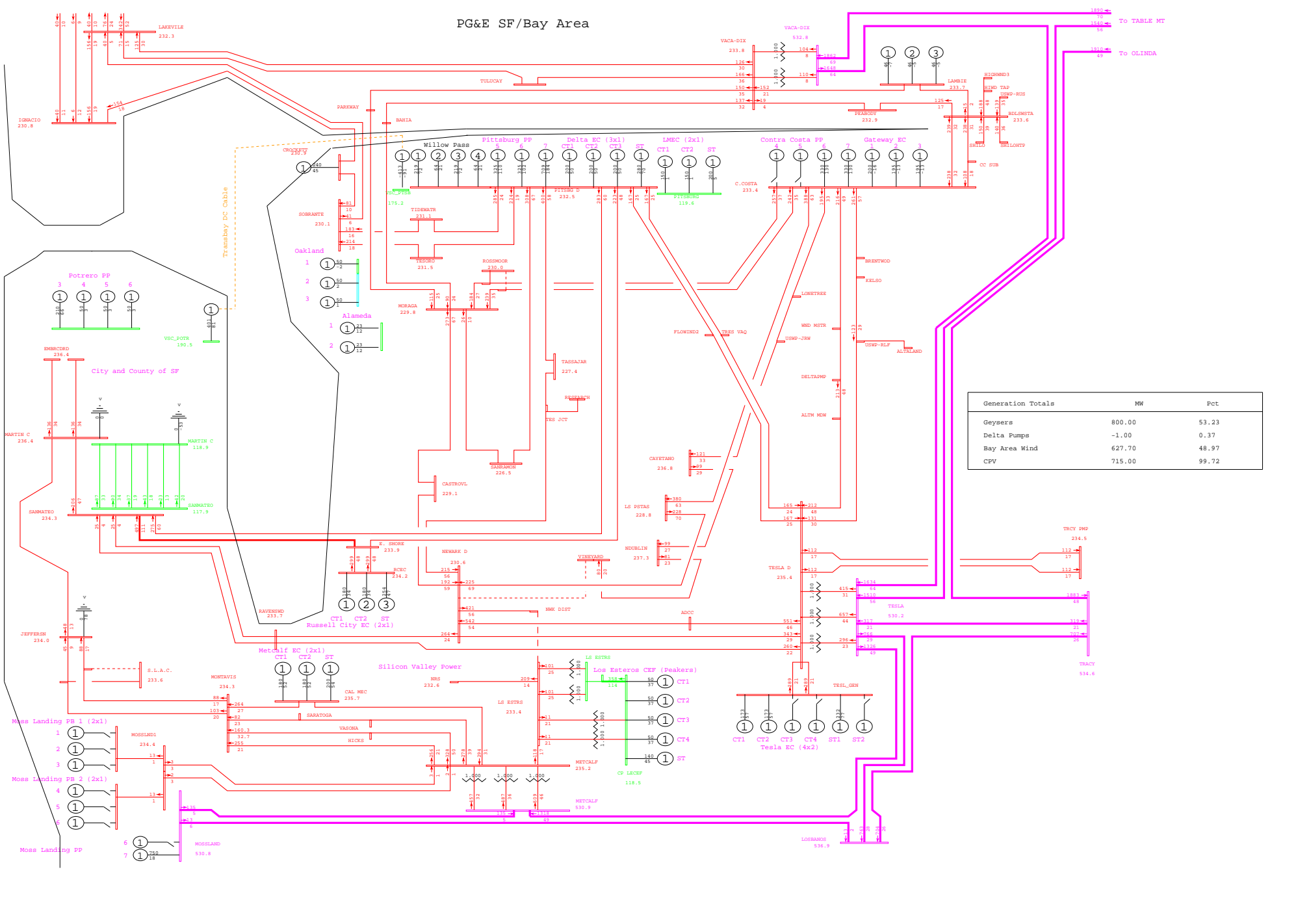
Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72



PG&E SF/Bay Area



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:48:52 2008 wlopssv2-2013mrnt_pst_ptsb-171.sav

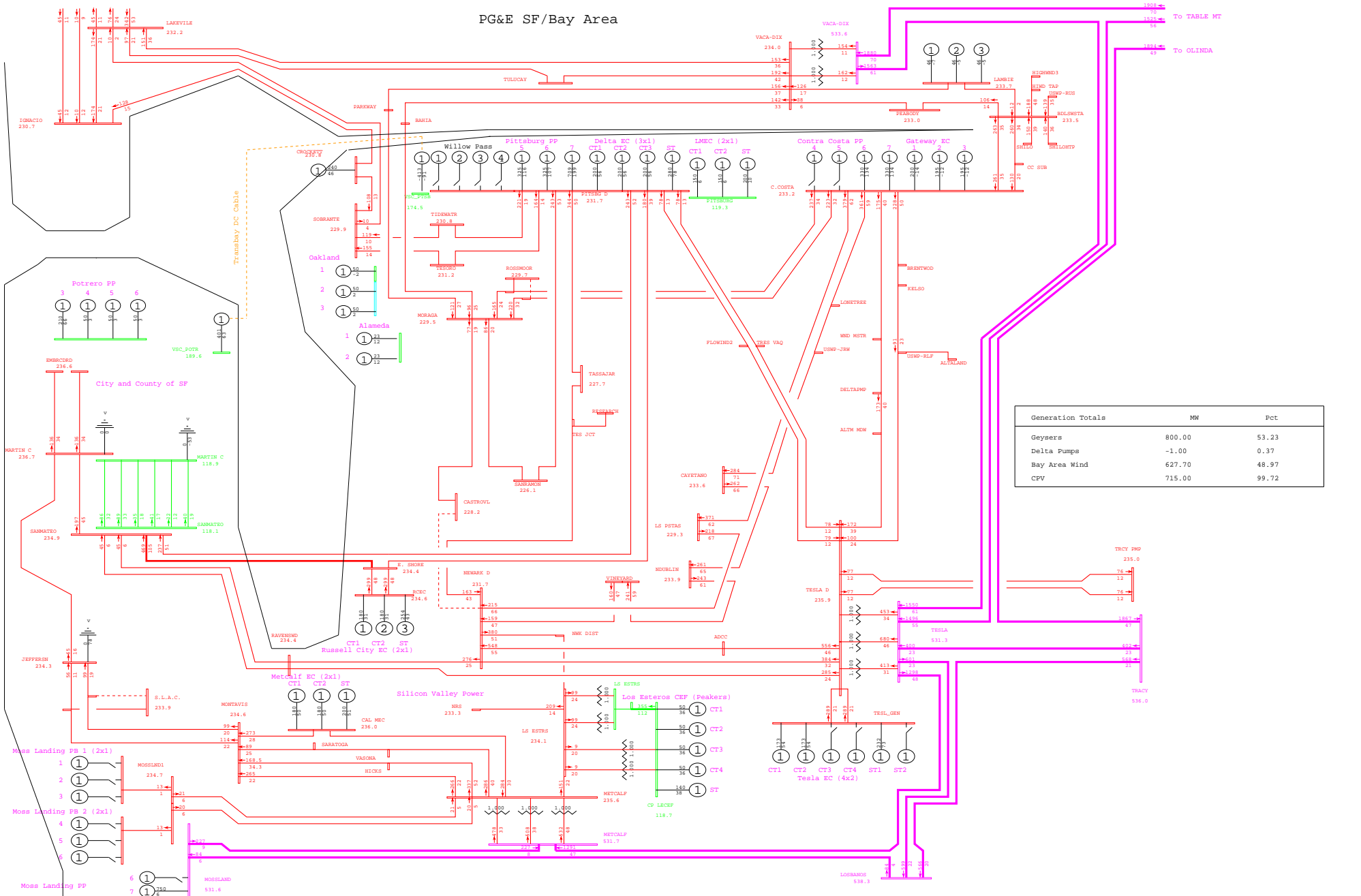


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 VINYARD - NEWARK 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 171

MW/% rate
 bayarea_2013_PGE_v4.cfw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:04 2008 wlopssv2-2013mrnt_pre_ptsb-172.sav

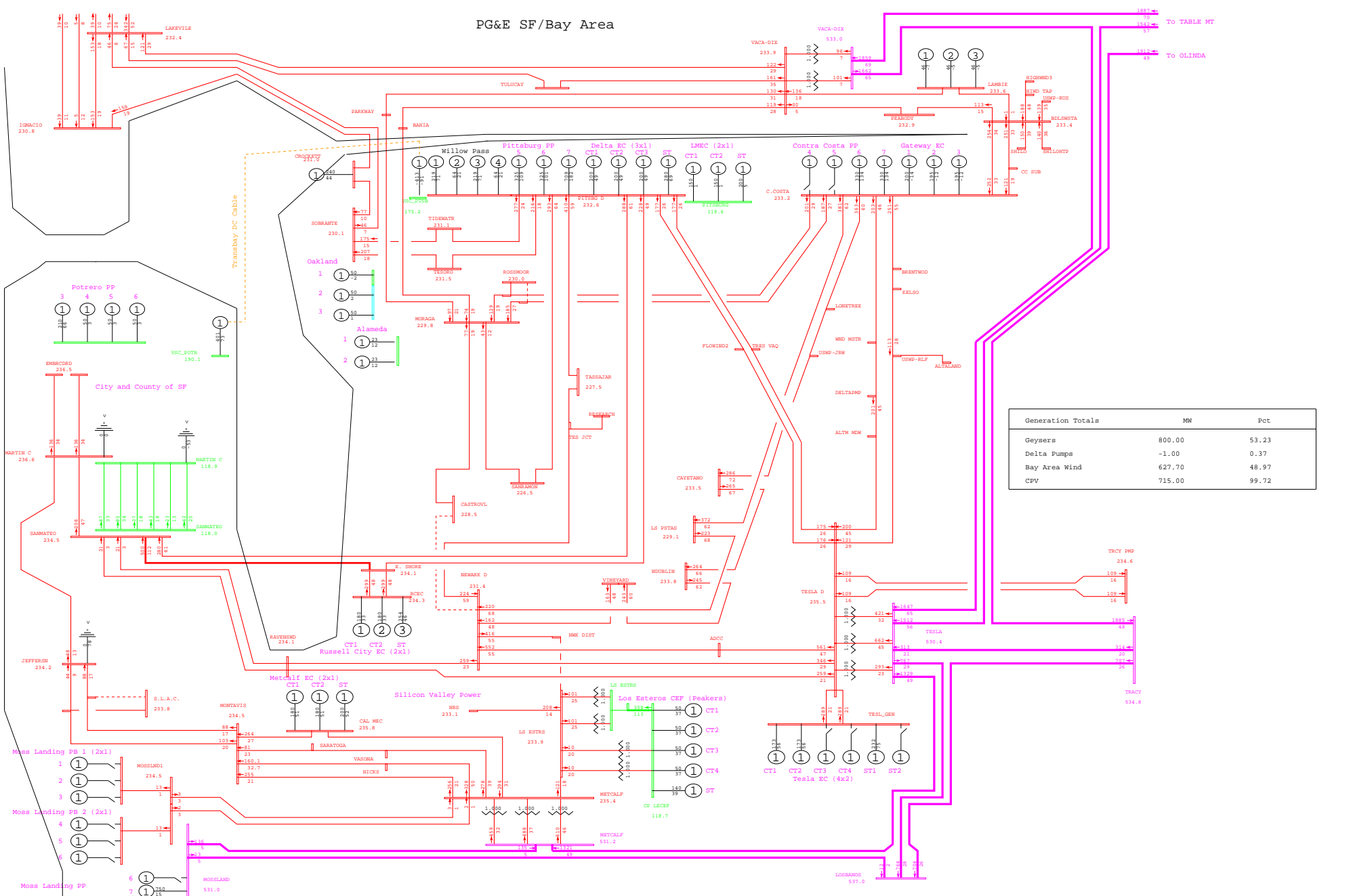


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

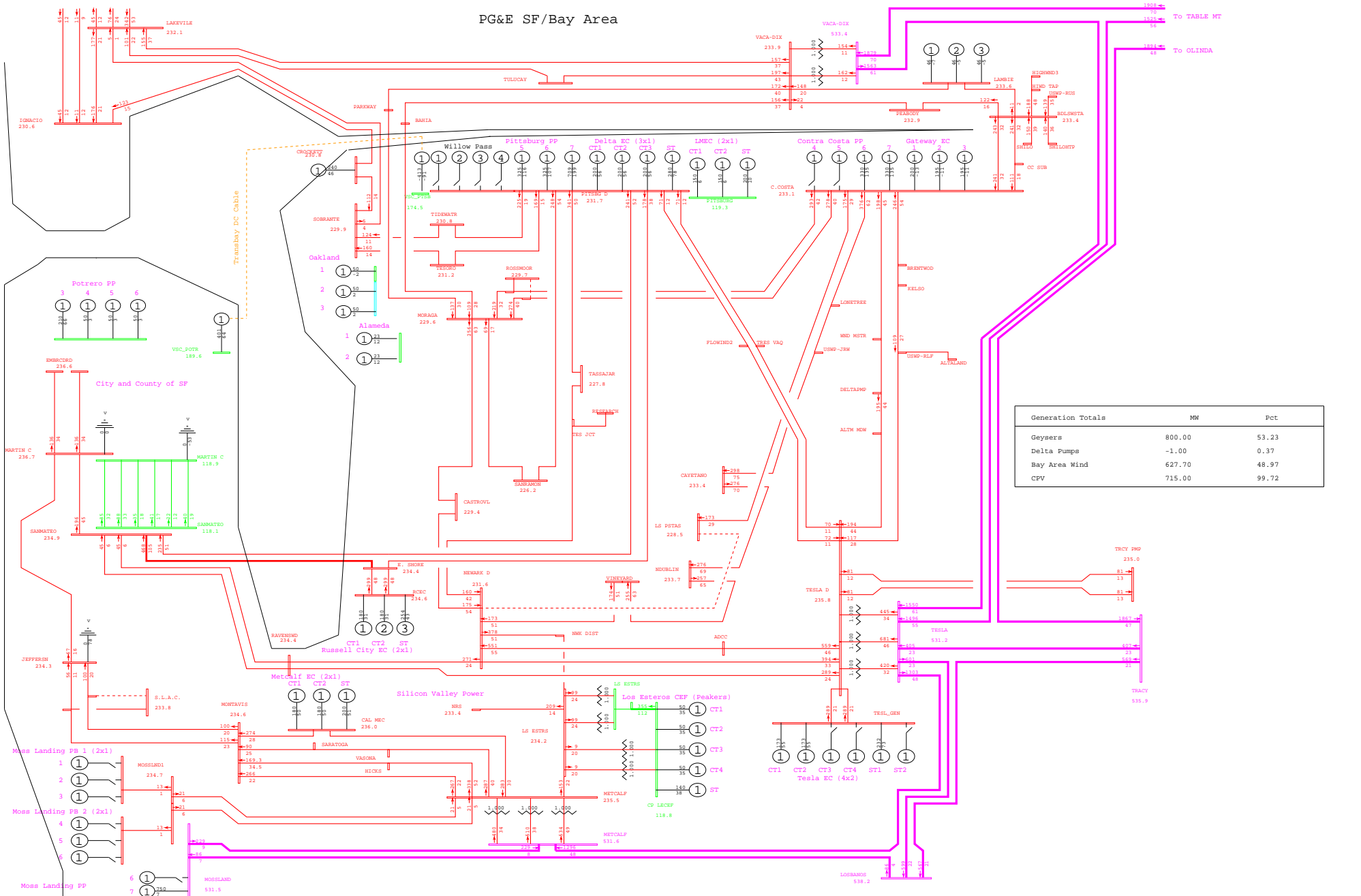
N-1 CASTROVL - NEWARK 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 172

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



PG&E SF/Bay Area



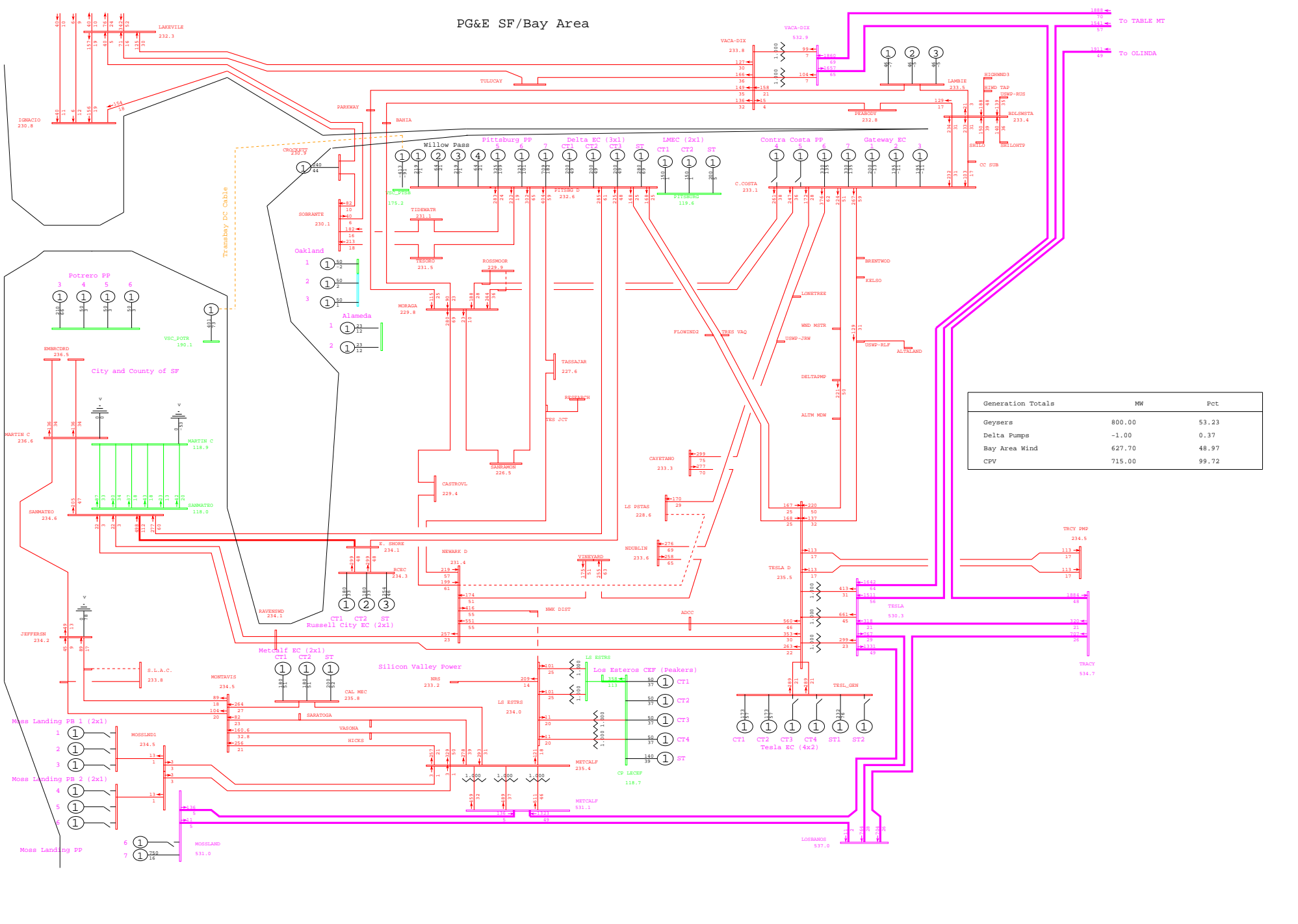
General Electric International, Inc. PSLF Program Fri Sep 26 20:52:05 2008 wlopssv2-2013mrnt_pre_ptsb-175.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 LS PSTAS - NEWARK 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 175
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:48:54 2008 wlopssv2-2013mrnt_pst_ptsb-175.sav

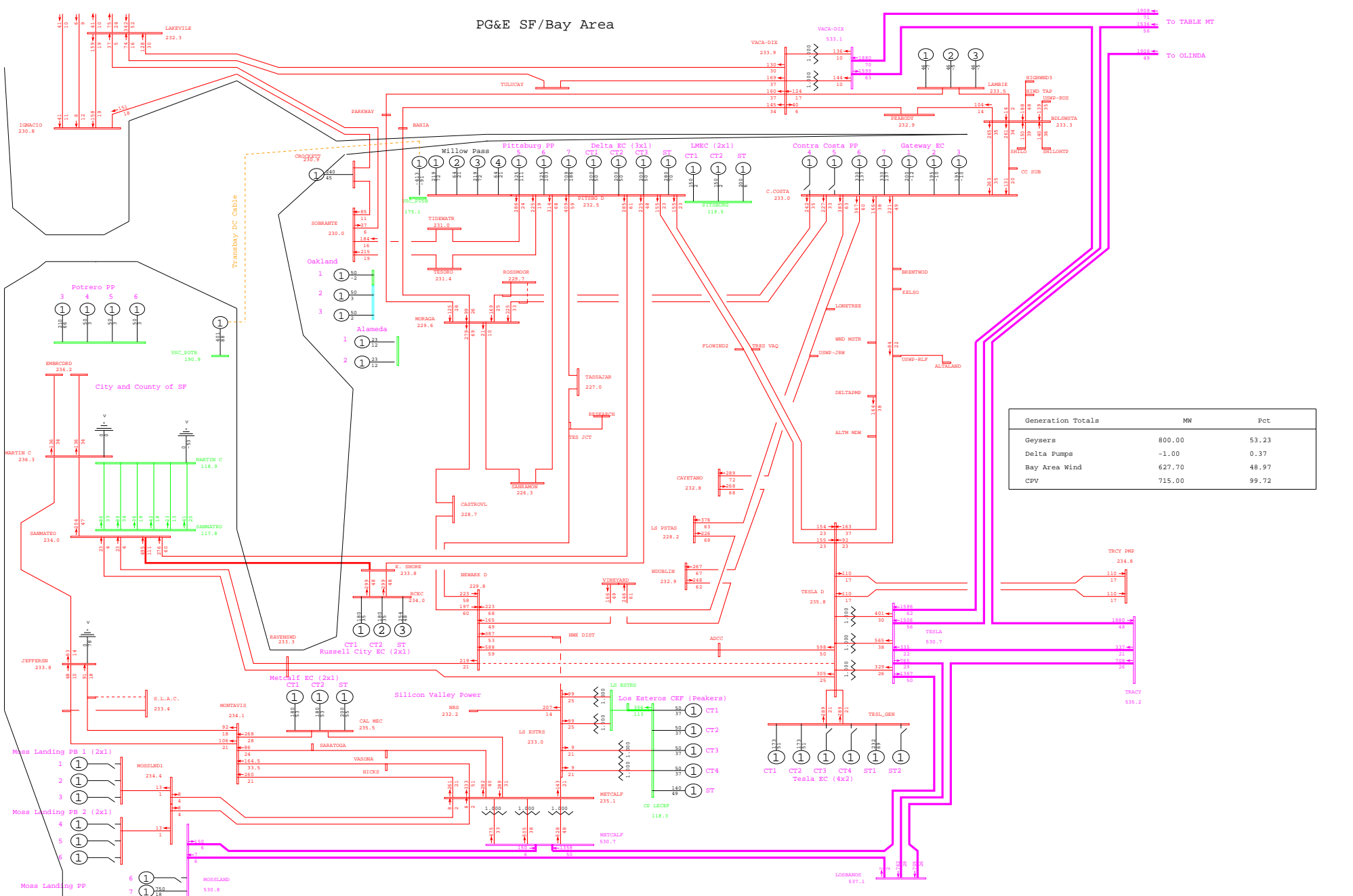


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

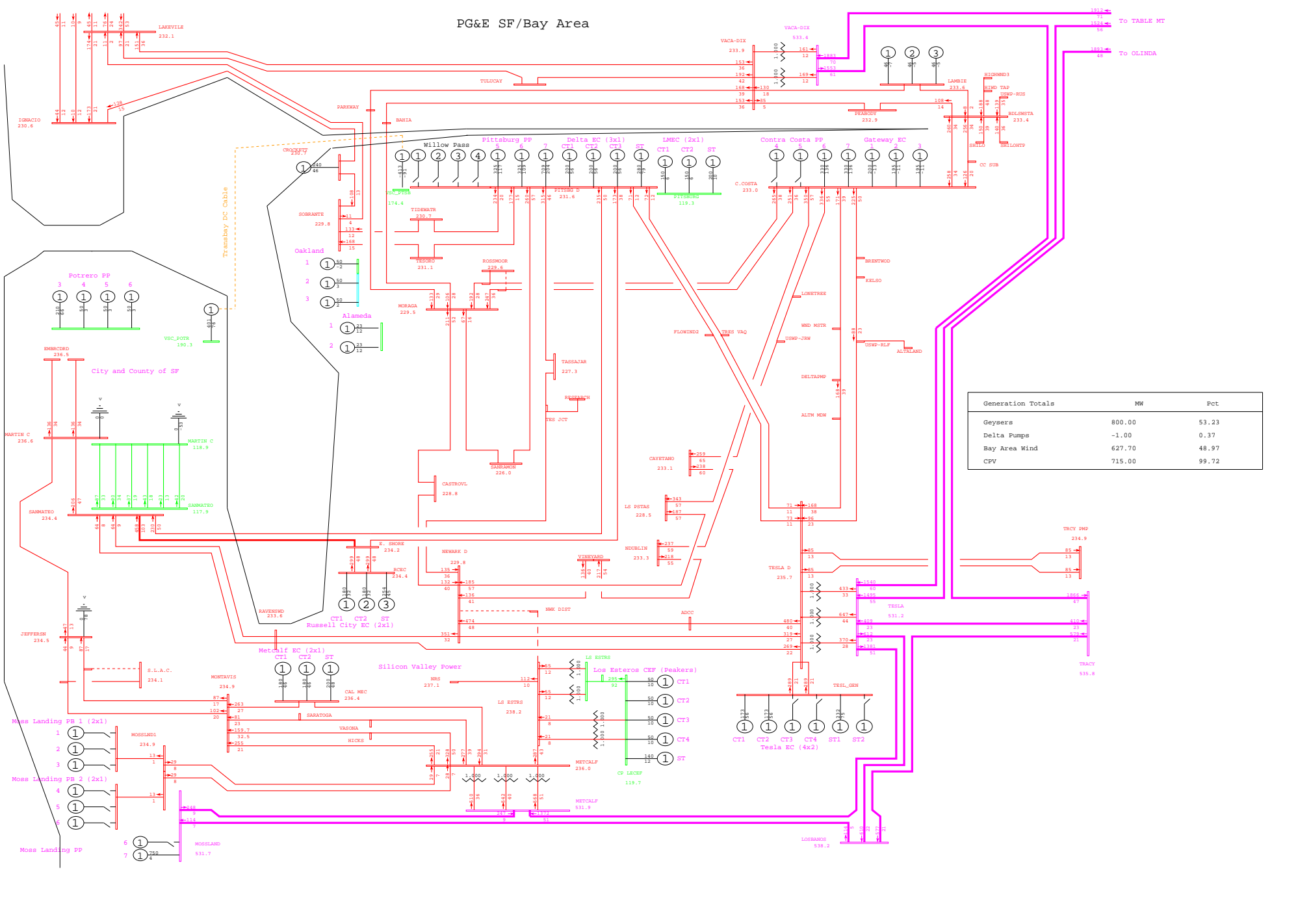
N-1 LS PSTAS - NEWARK 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 175

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

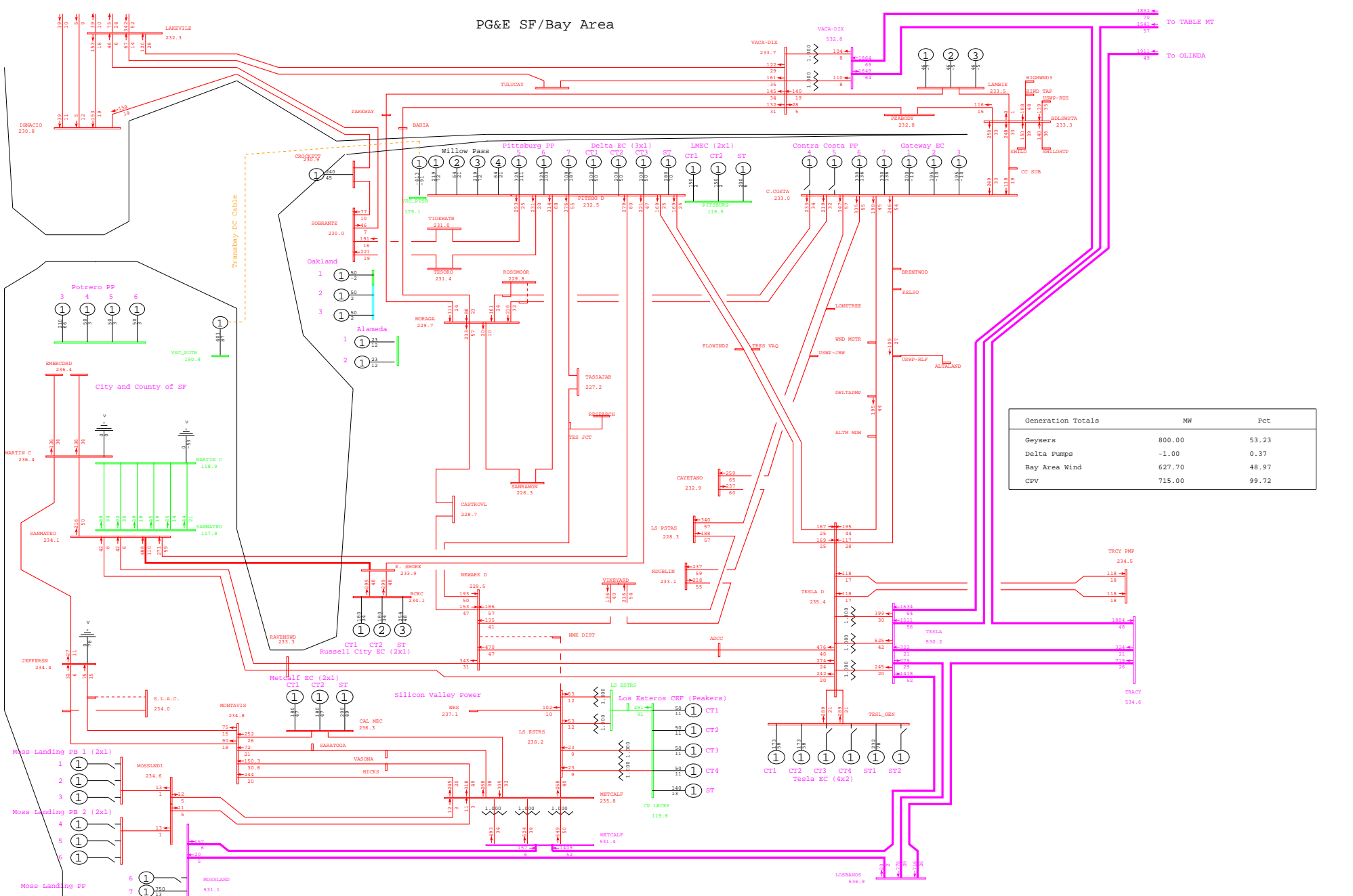
PG&E SF/Bay Area



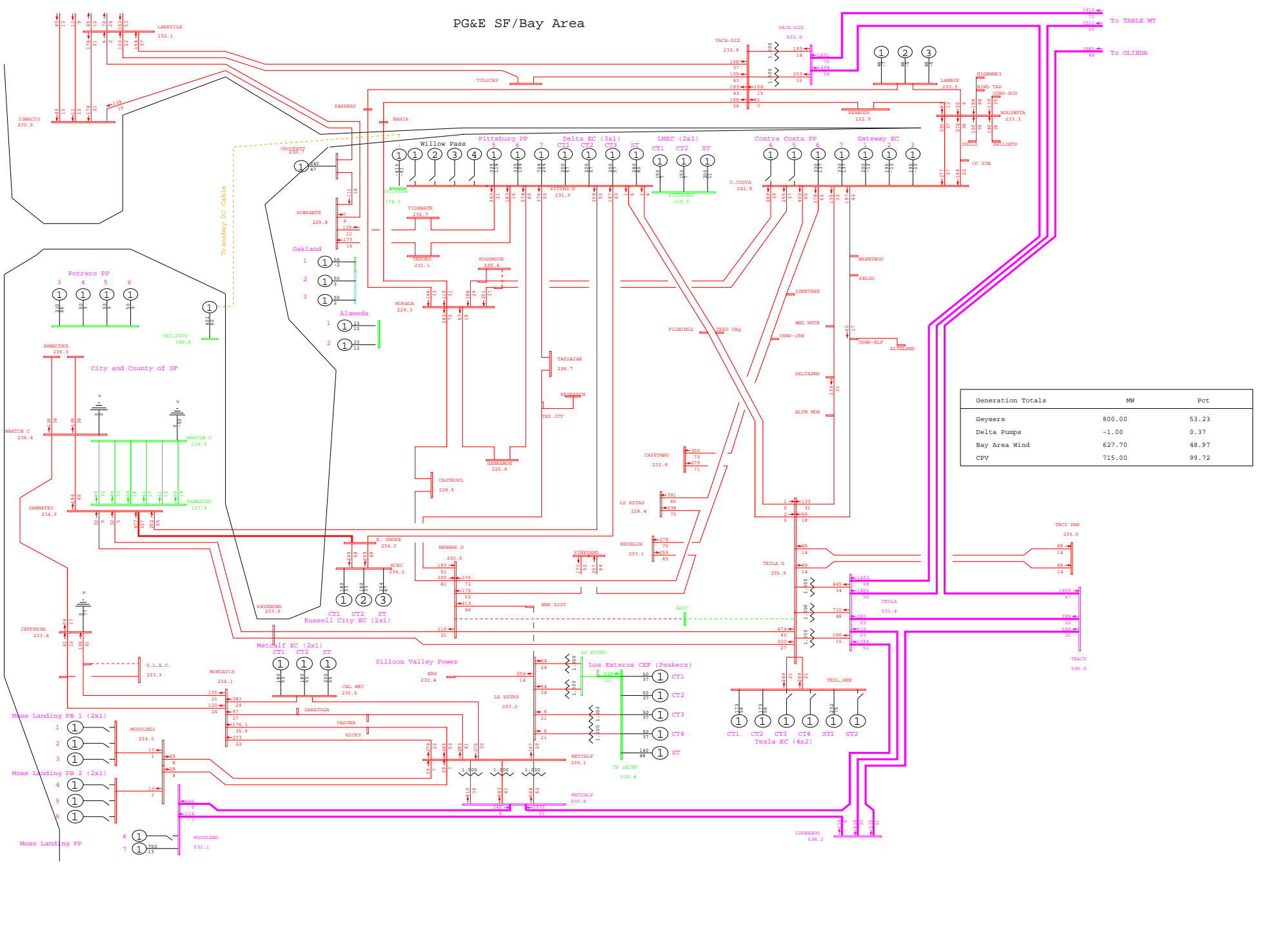
PG&E SF/Bay Area




PG&E SF/Bay Area



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:09 2008 wlopssv2-2013mrnt_pre_ptsb-179.sav

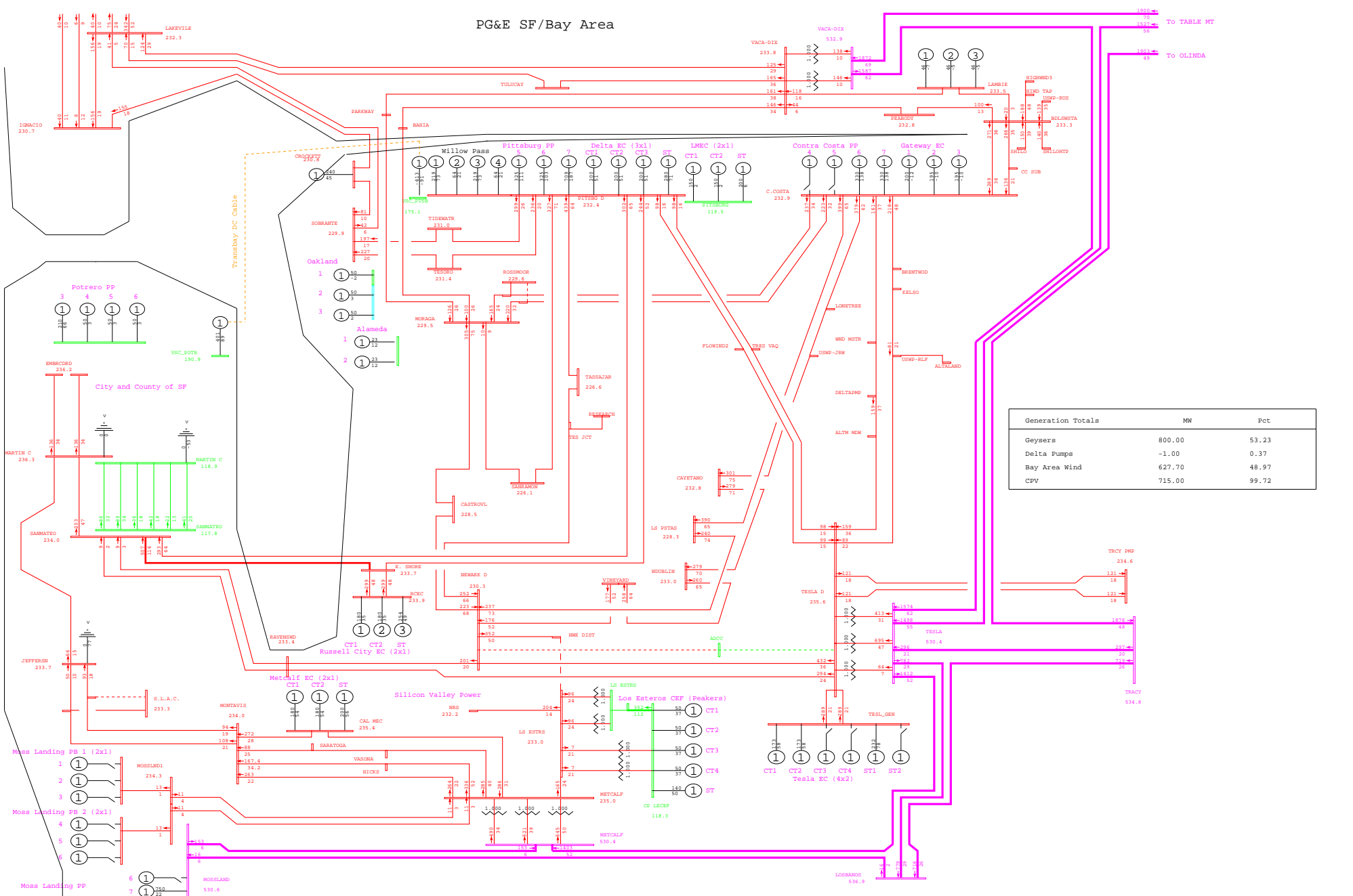


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 TESLA - NEWARK 230kV #2 LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 179

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:48:57 2008 wlopssv2-2013mrnt_pst_ptsb-179.sav

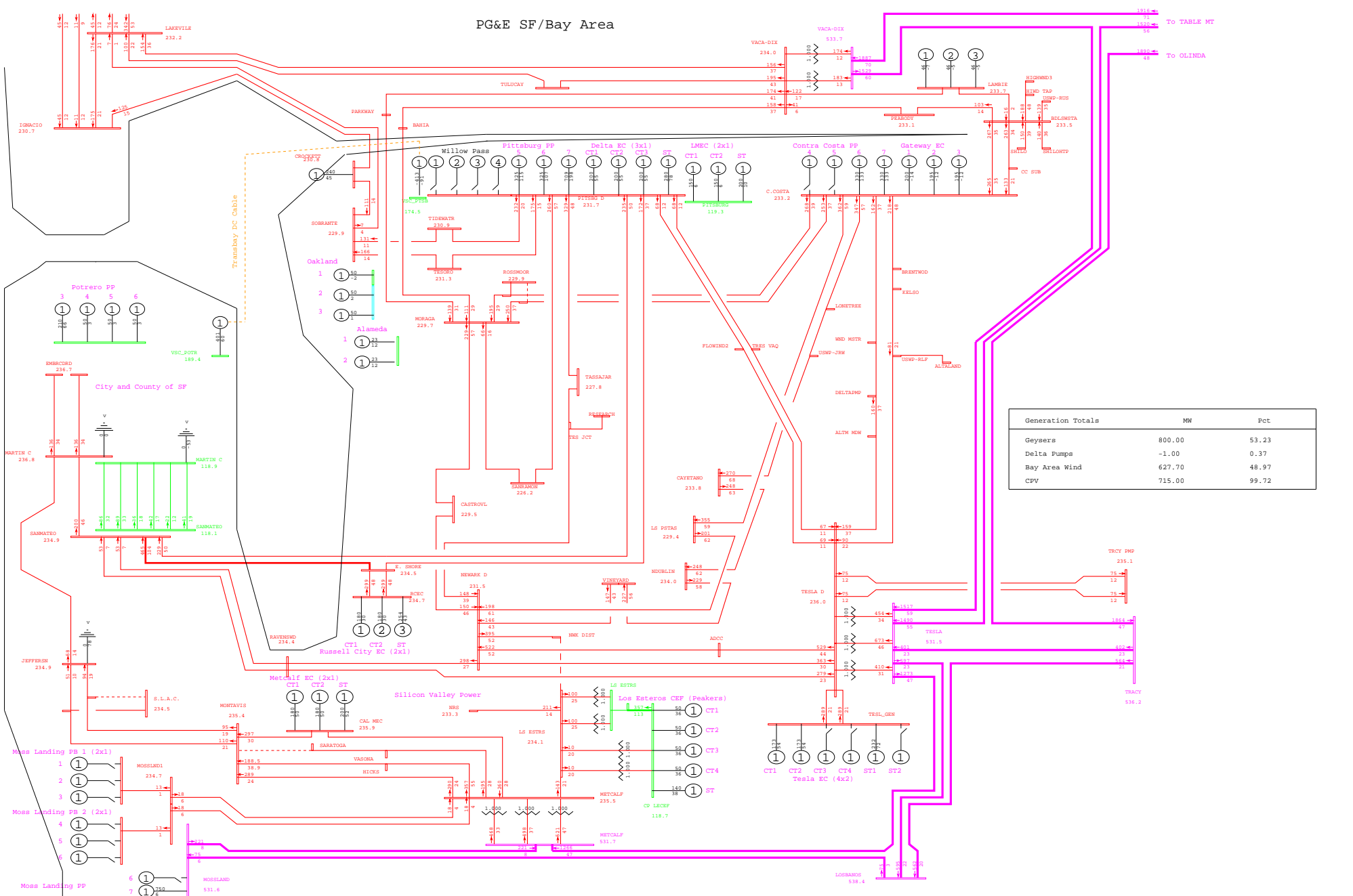


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 TESLA - NEWARK 230kV #2 LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 179

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:10 2008 wlopssv2-2013mrnt_pre_ptsb-180.sav

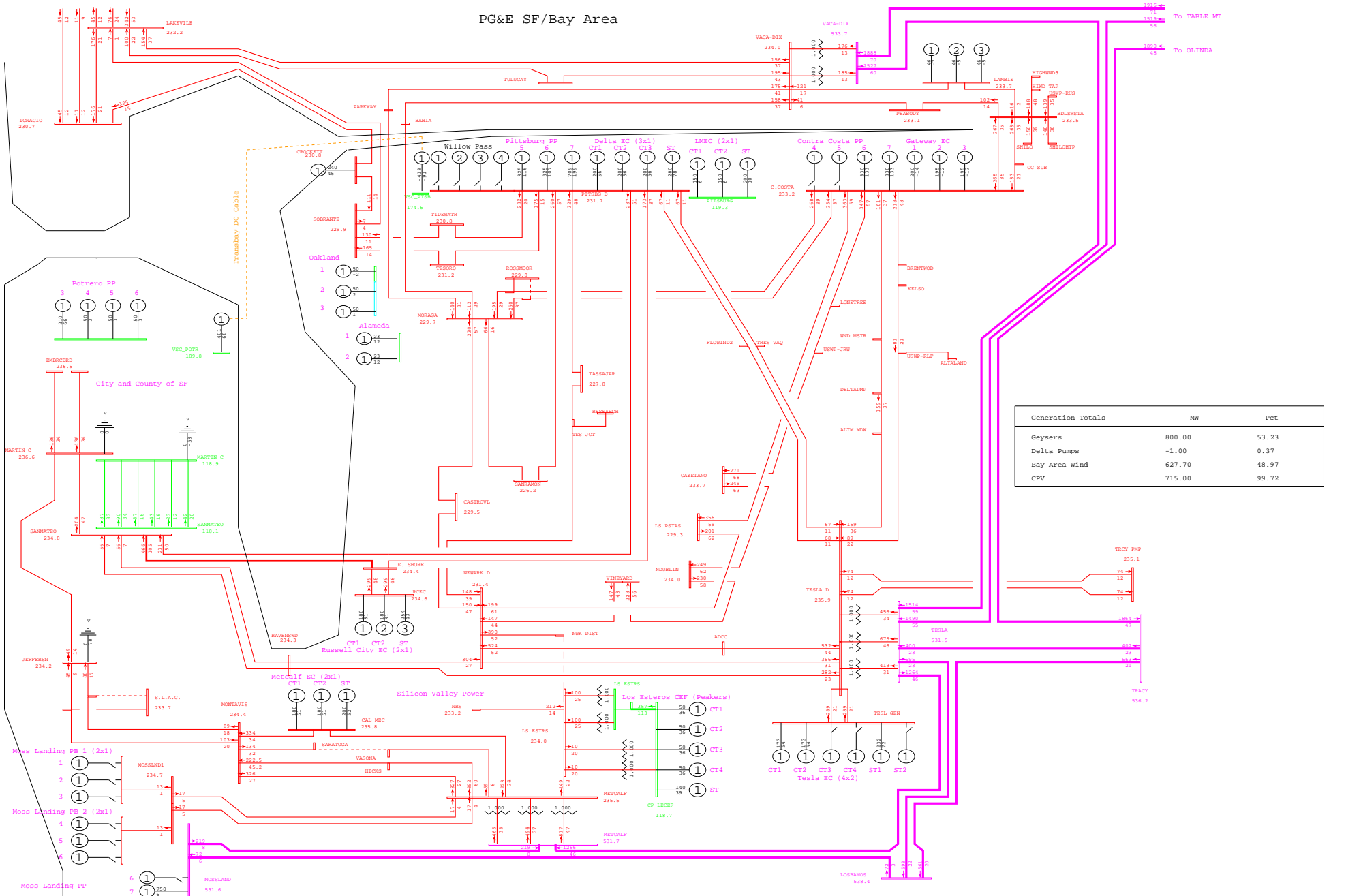


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 MONTAVIS - SARATOGA 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 180

MW/% rate
 bayarea_2013_PGE_v4.cfw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:12 2008 wlopssv2-2013mrnt_pre_ptsb-182.sav

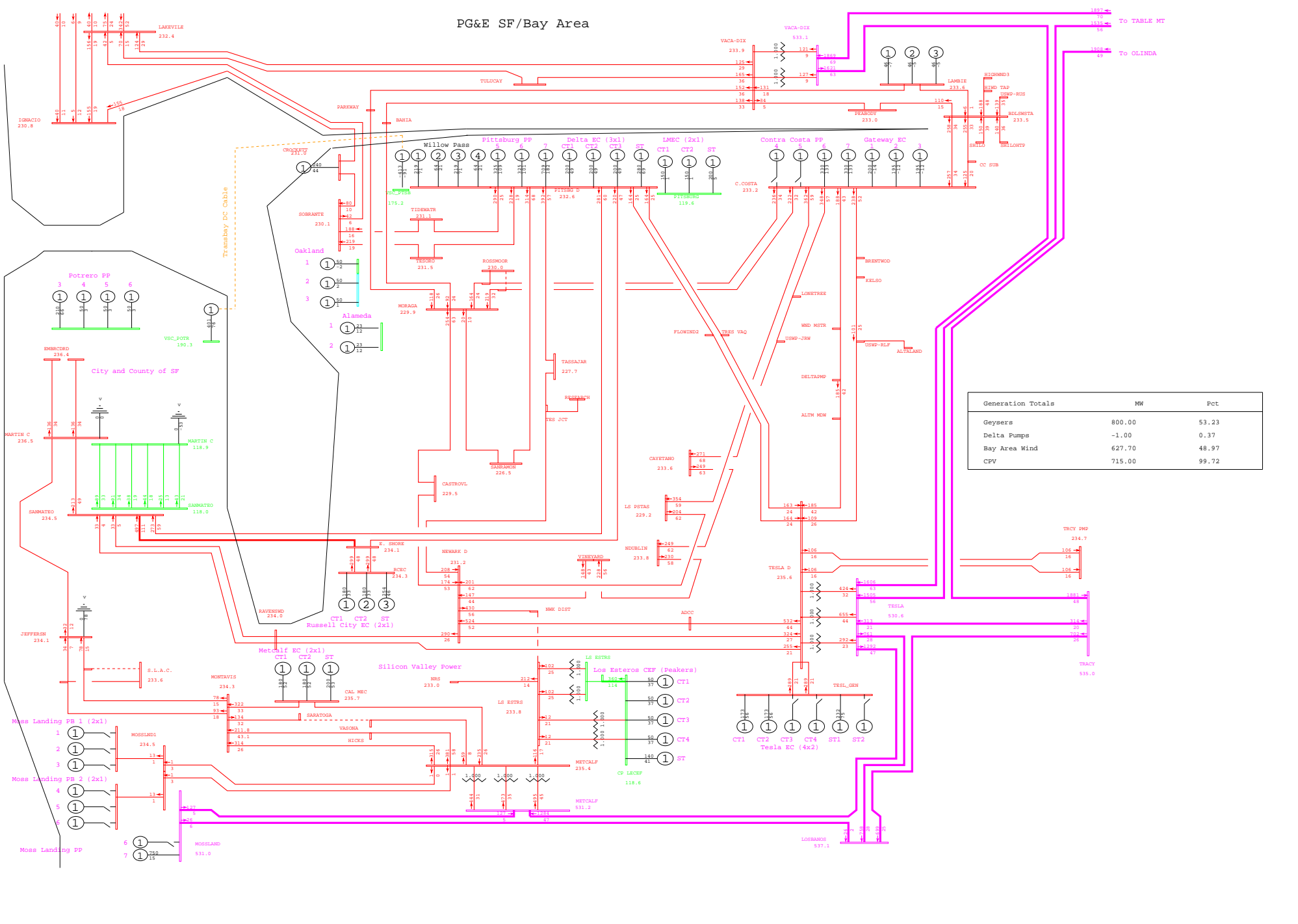


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 TSARATOGA - VASONA 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 182

MW/% rate
 bayarea_2013_PGE_v4.0r.w
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:00 2008 wlopssv2-2013mrnt_pst_ptsb-182.sav

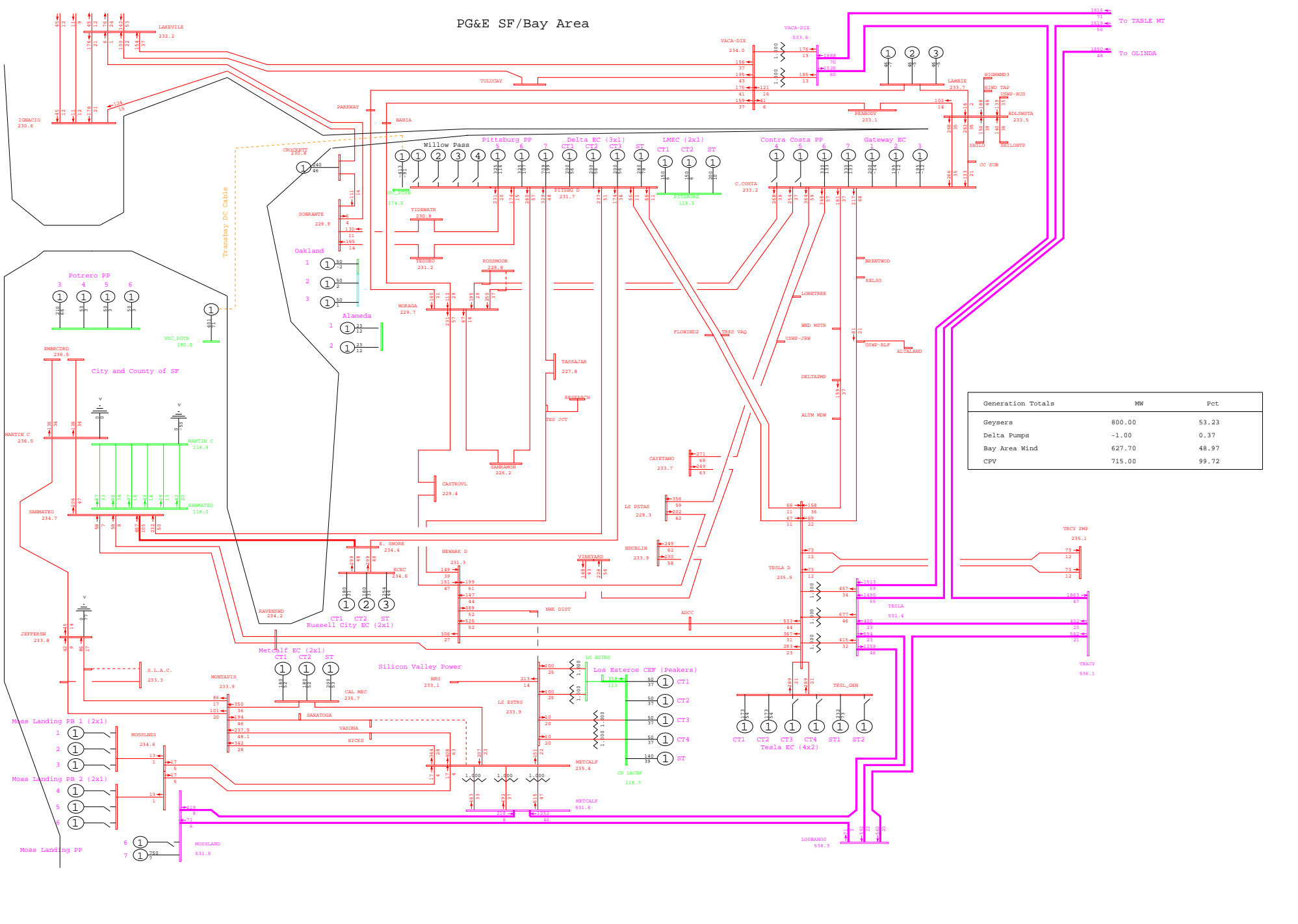


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 TSARATOGA - VASONA 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 182

MW/% rate
 bayarea_2013_PGE_v4.cfw
 Rating = 2

PG&E SF/Bay Area



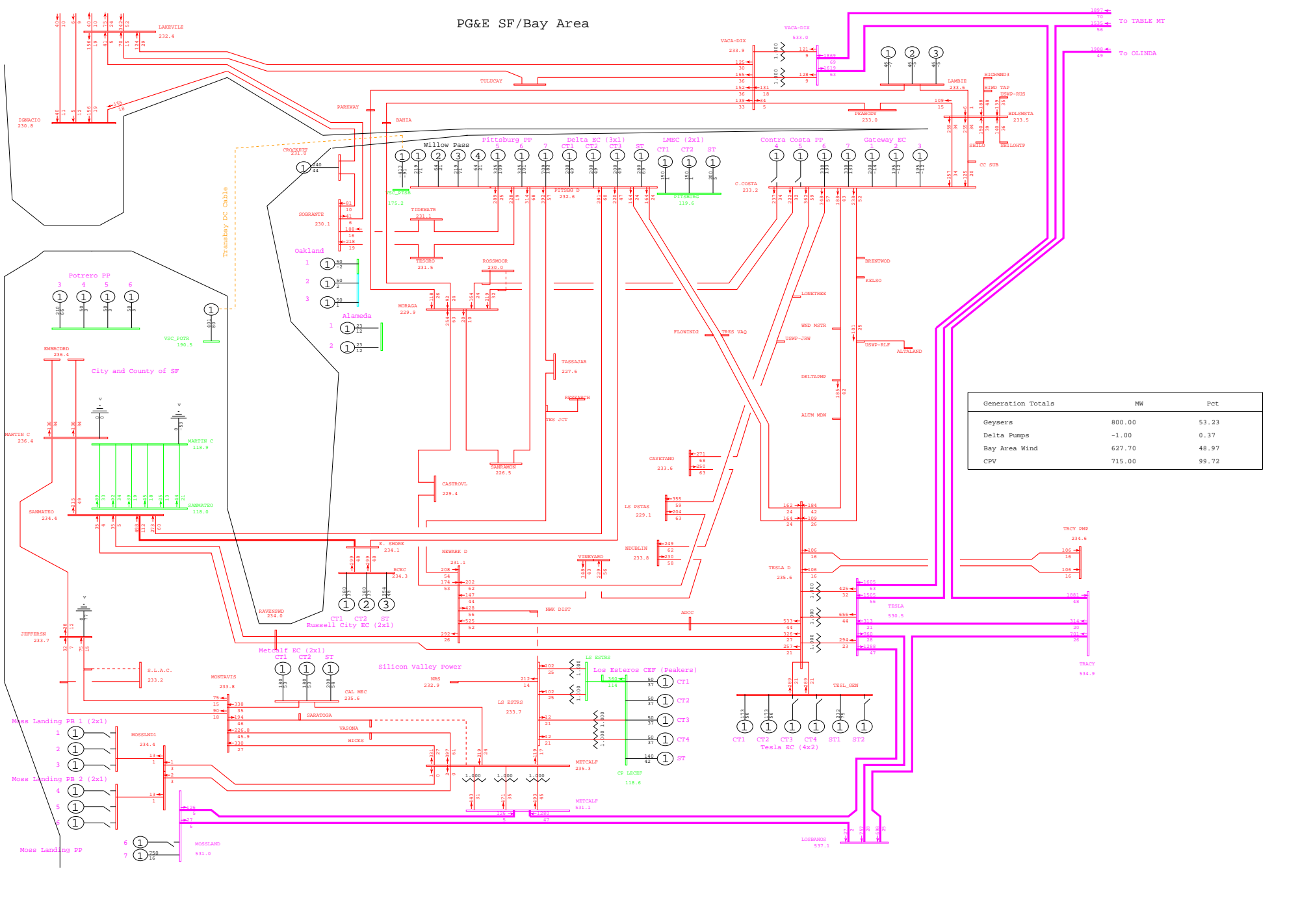
General Electric International, Inc. PSLF Program Fri Sep 26 20:52:13 2008 wlopssv2-2013mrnt_pre_ptsb-183.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 VASONA - METCALF 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 183
 MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:03 2008 wlopssv2-2013mrnt_pst_ptsb-183.sav

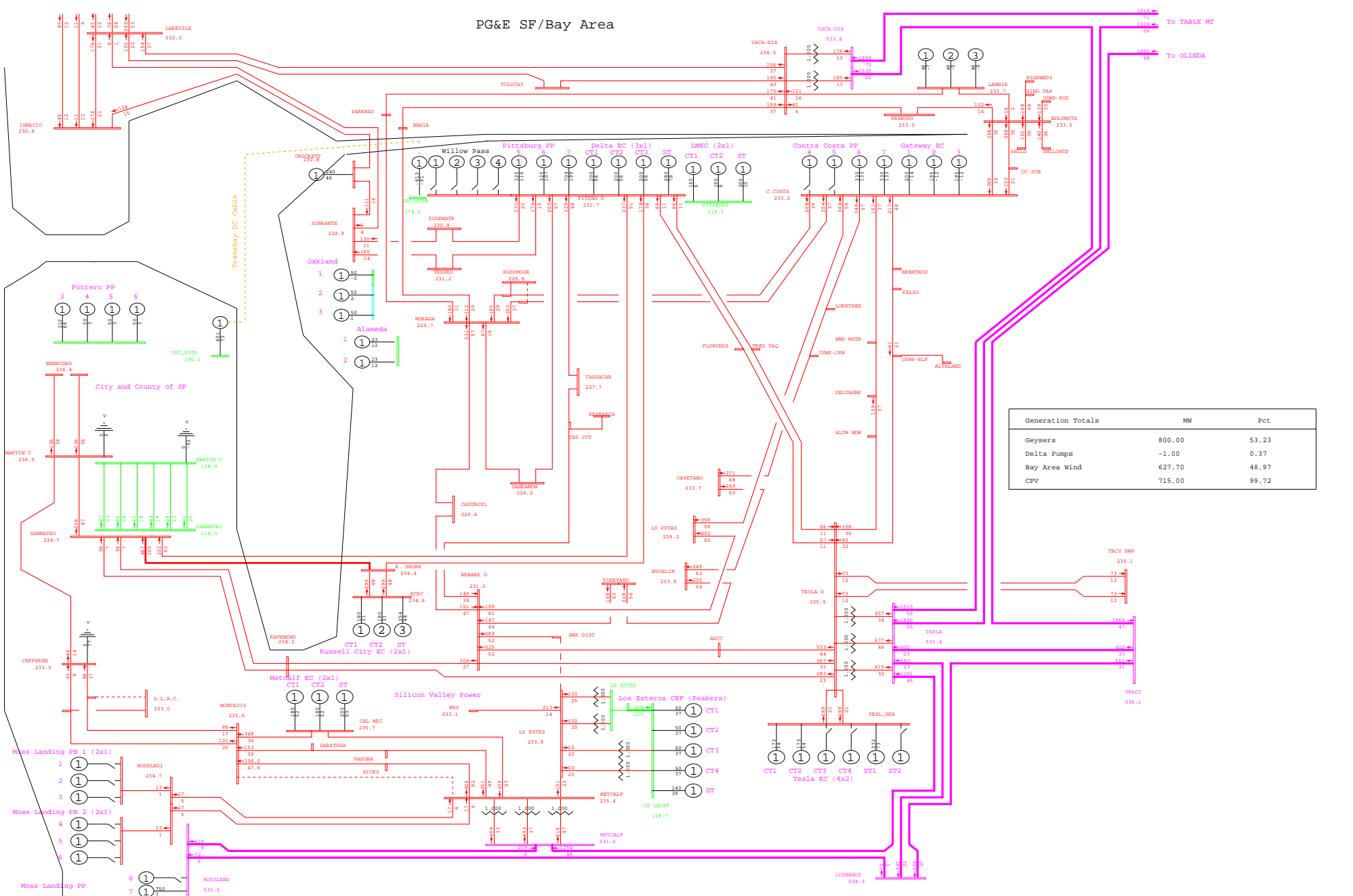


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 VASONA - METCALF 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 183

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:14 2008 wlopssv2-2013mrnt_pre_ptsb-184.sav

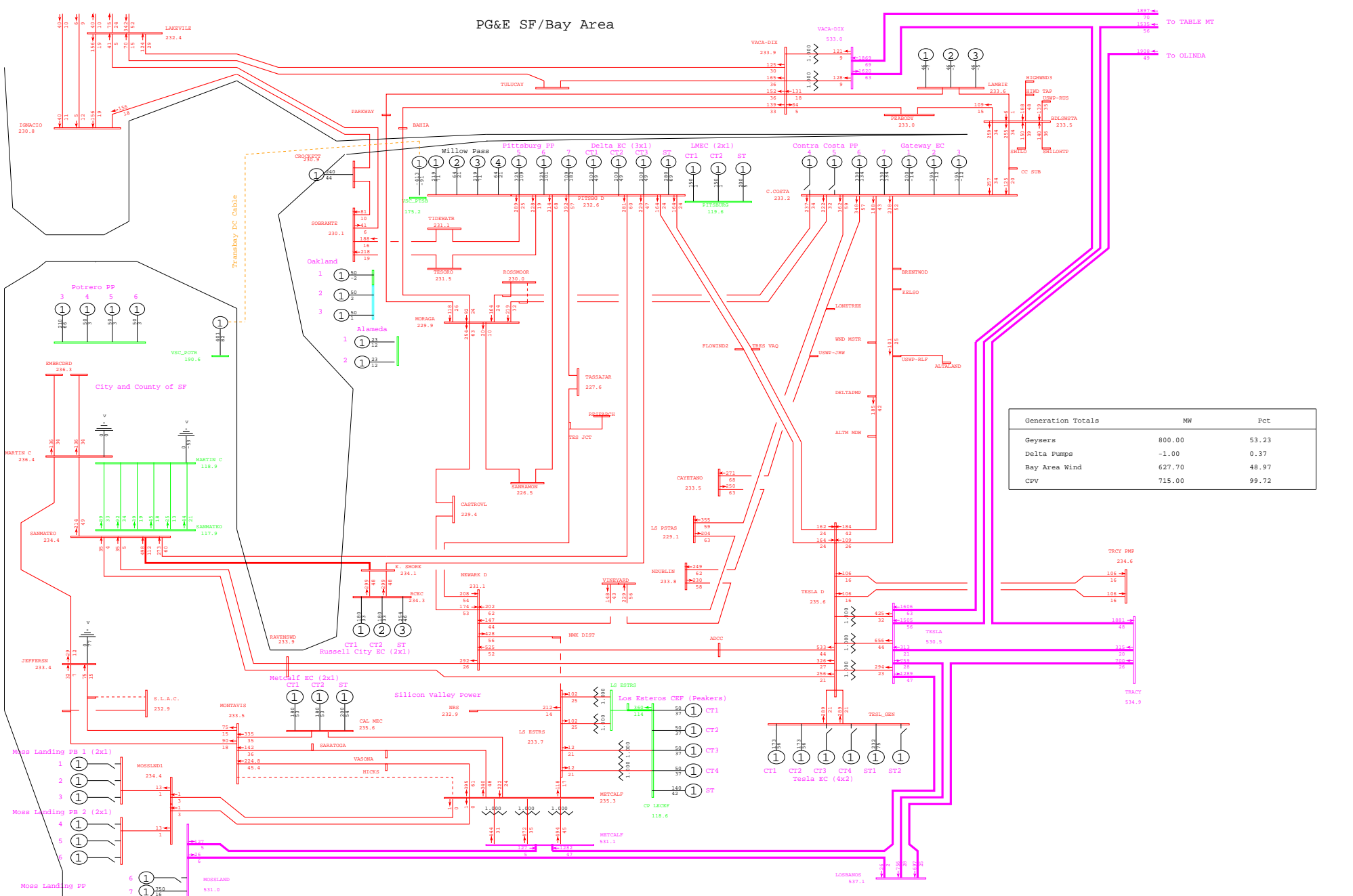


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-1 MONTAVIS - METCALF 230kV #3 LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 184

MW/% rate
 bayarea_2013_PGE_v4.cfw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:04 2008 wlopssv2-2013mrnt_pst_ptsb-184.sav

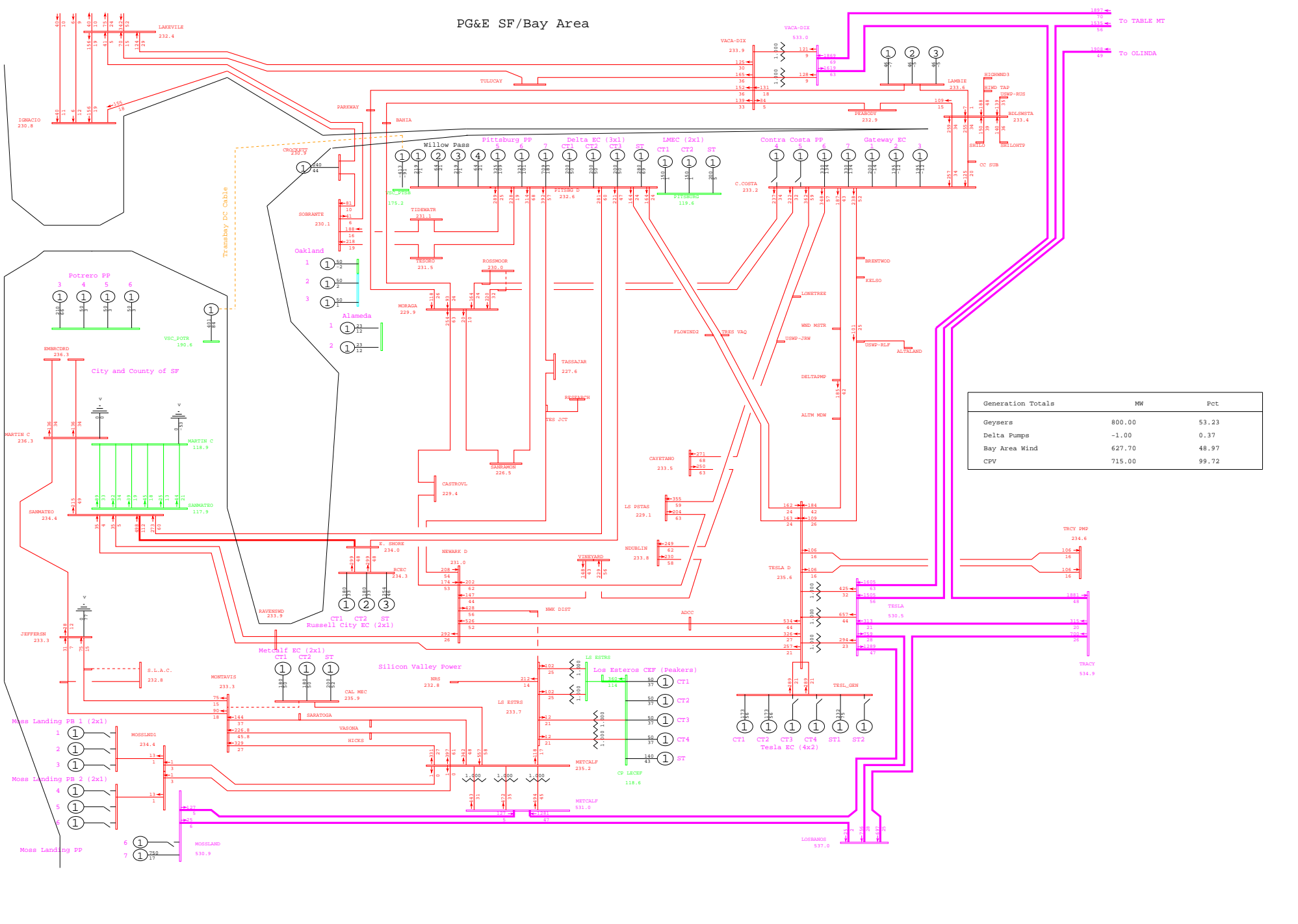


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-1 MONTAVIS - METCALF 230kV #3 LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 184

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



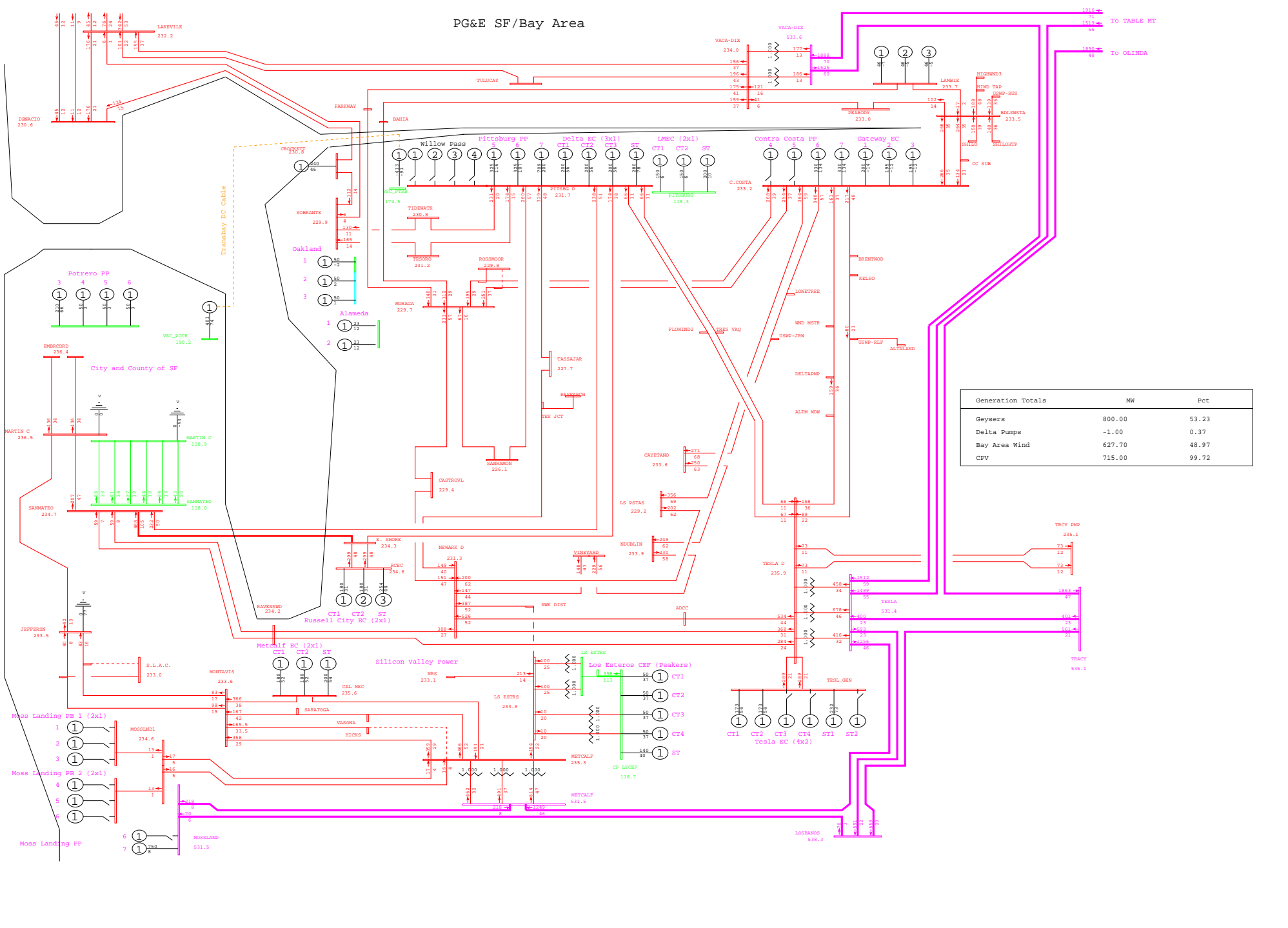
General Electric International, Inc. PSLF Program Fri Sep 26 20:49:06 2008 wlopssv2-2013mrnt_pst_ptsb-185.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 MONTAVIS - METCALF ENERGY CENTER 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 185

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



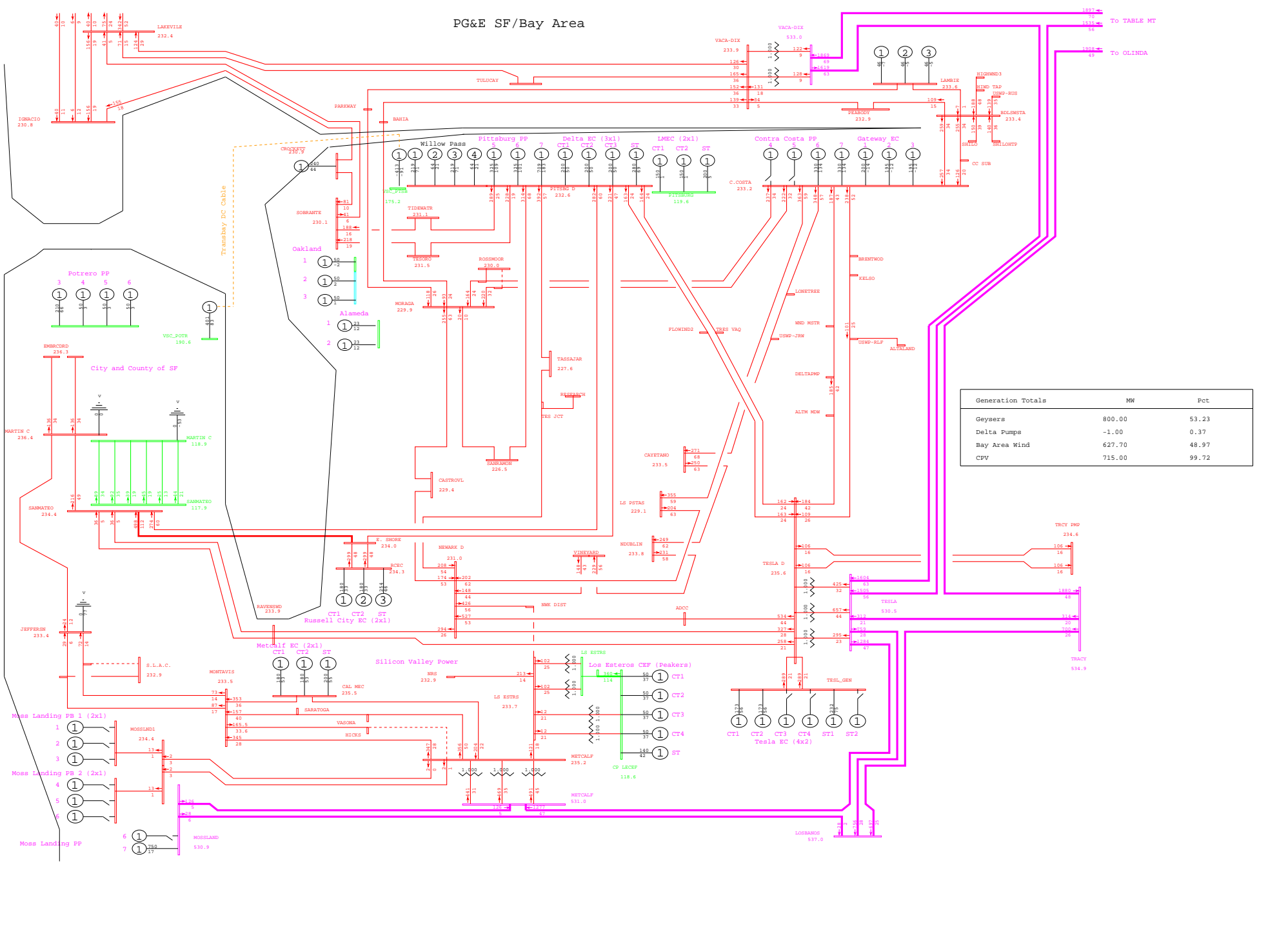
General Electric International, Inc. PSLF Program Fri Sep 26 20:52:17 2008 wlopssv2-2013mrnt_pre_ptsb-187.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 HICKS - METCALF 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 187
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:09 2008 wlopssv2-2013mrnt_pst_ptsb-187.sav

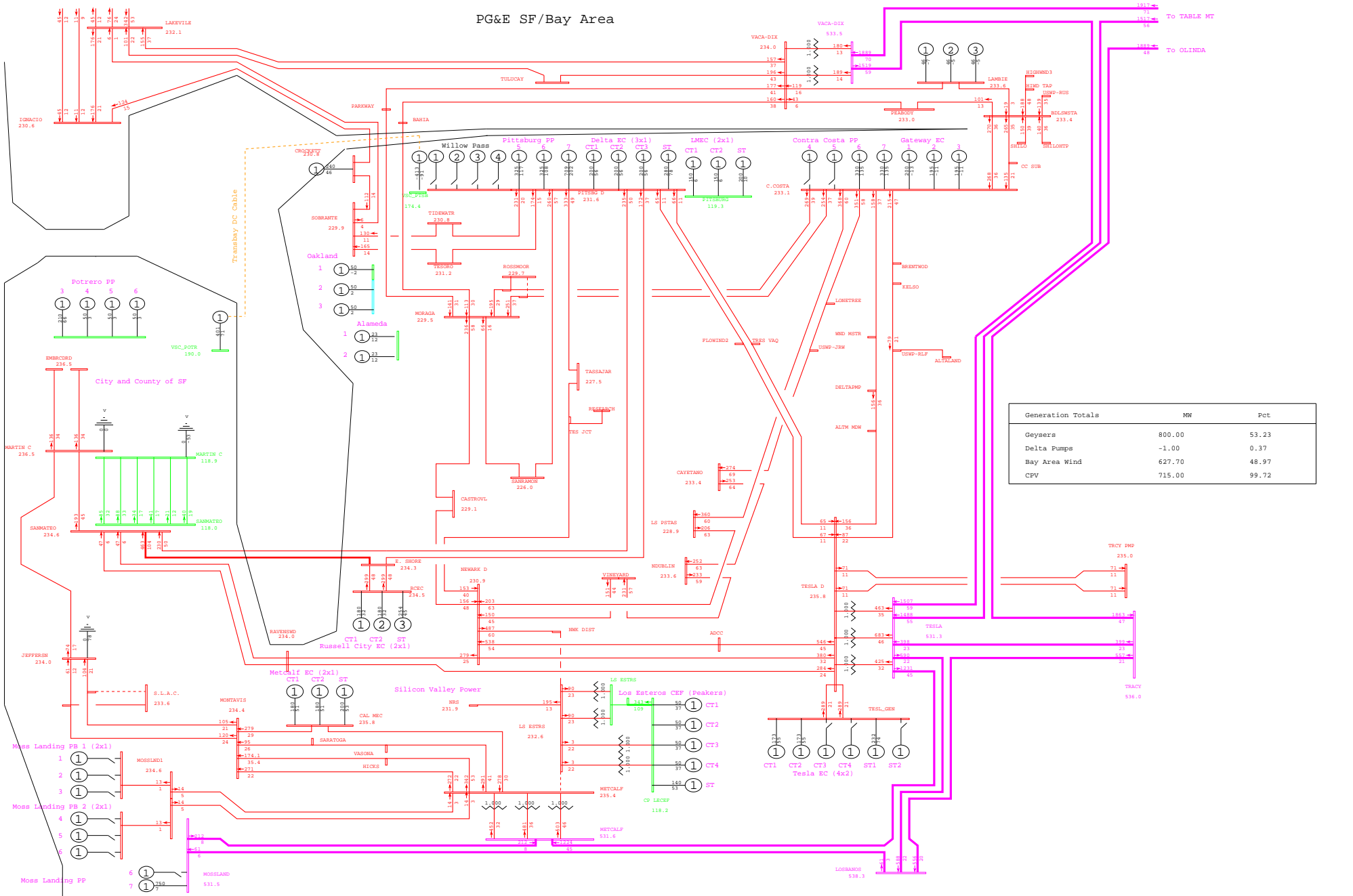


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-1 HICKS - METCALF 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 187

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:18 2008 wlopssv2-2013mrnt_pre_ptsb-188.sav

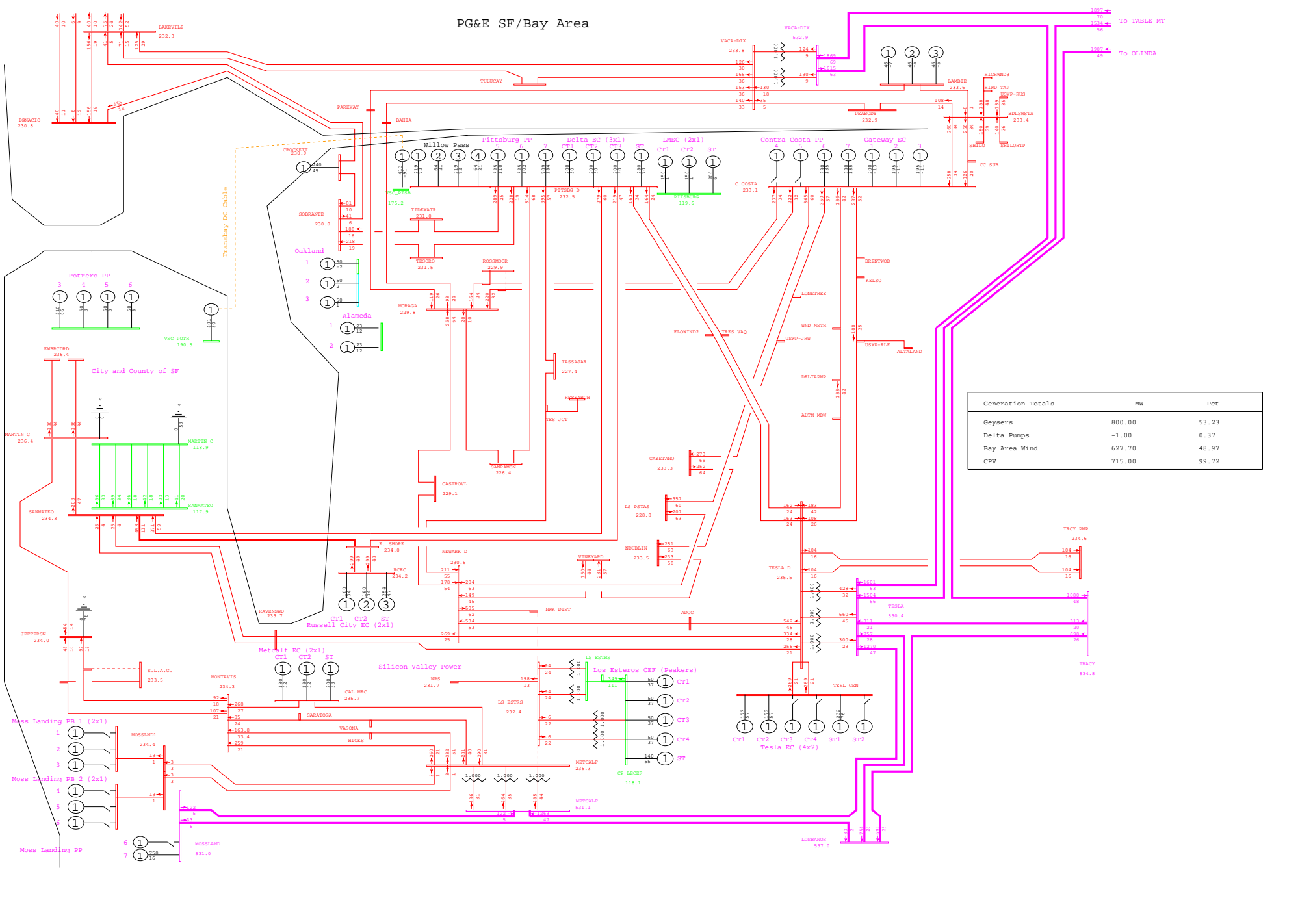


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 LOS ESTEROS - METCALF 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 188

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:12 2008 wlopssv2-2013mrnt_pst_ptsb-188.sav

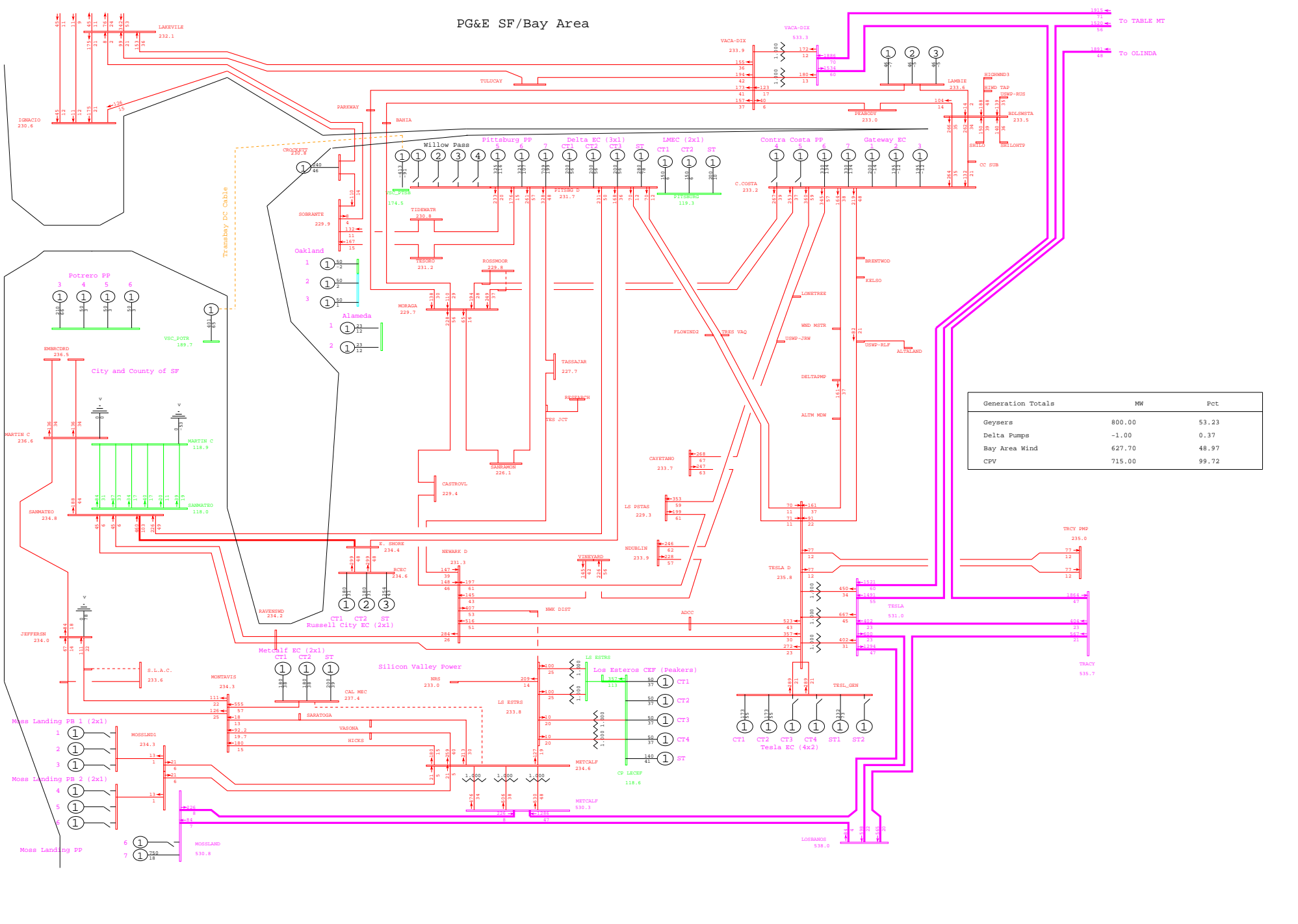


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 LOS ESTEROS - METCALF 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 188

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



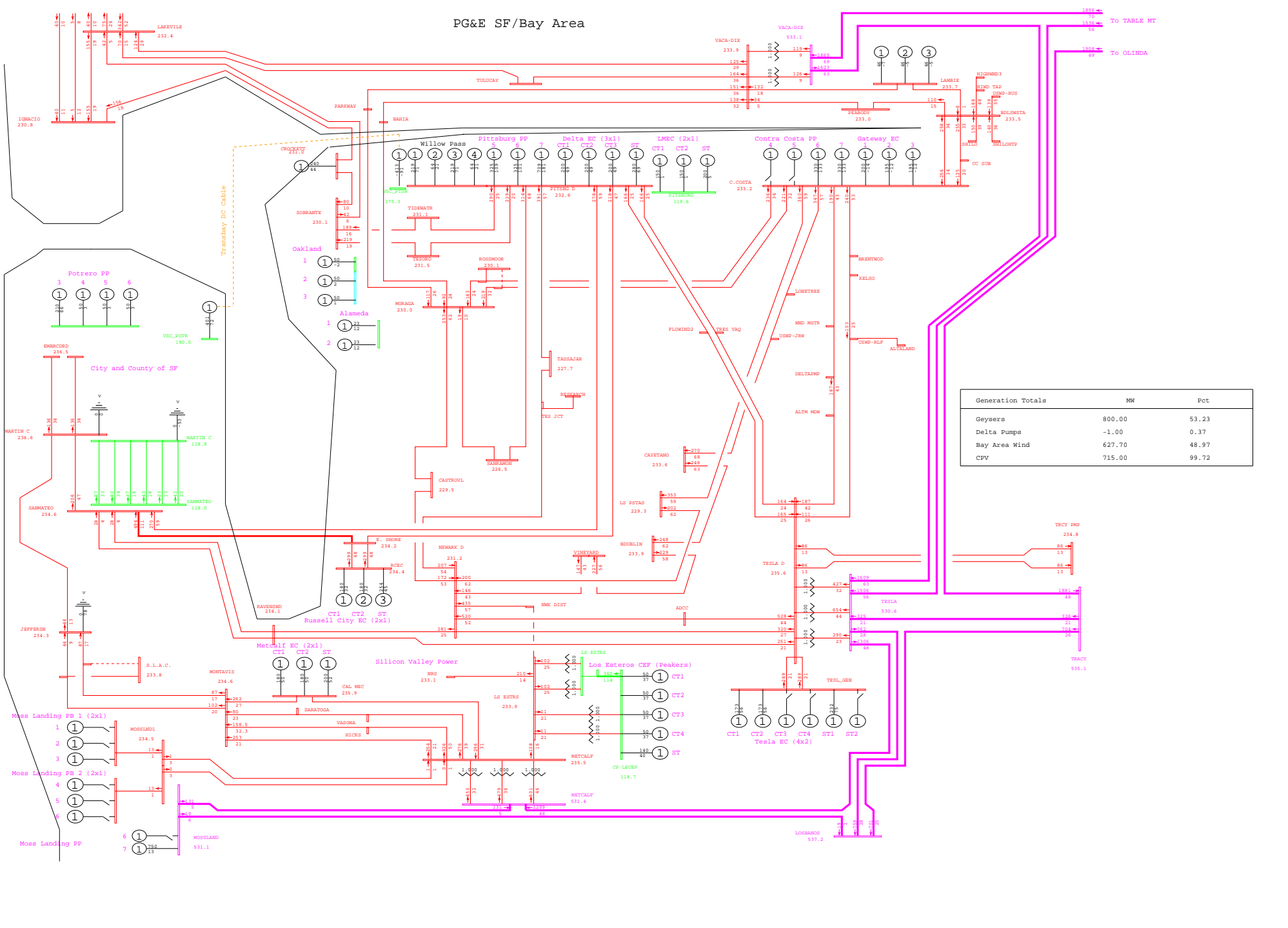
General Electric International, Inc. PSLF Program Fri Sep 26 20:52:20 2008 wlopssv2-2013mrnt_pre_ptsb-189.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 METCALF ENERGY CENTER - METCALF 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 189
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



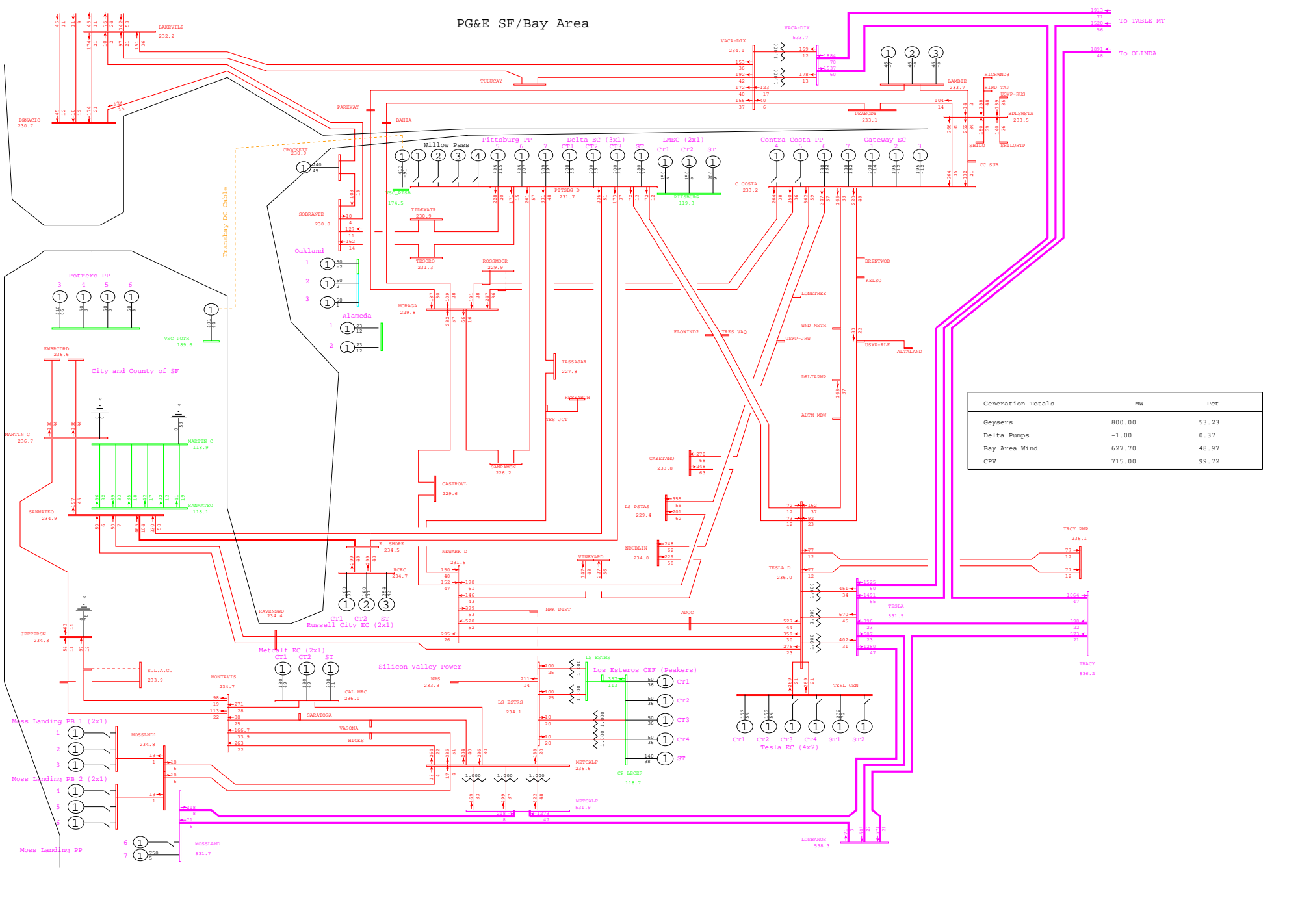
General Electric International, Inc. PSLF Program Fri Sep 26 20:49:13 2008 wlopssv2-2013mrnt_pst_ptsb-196.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

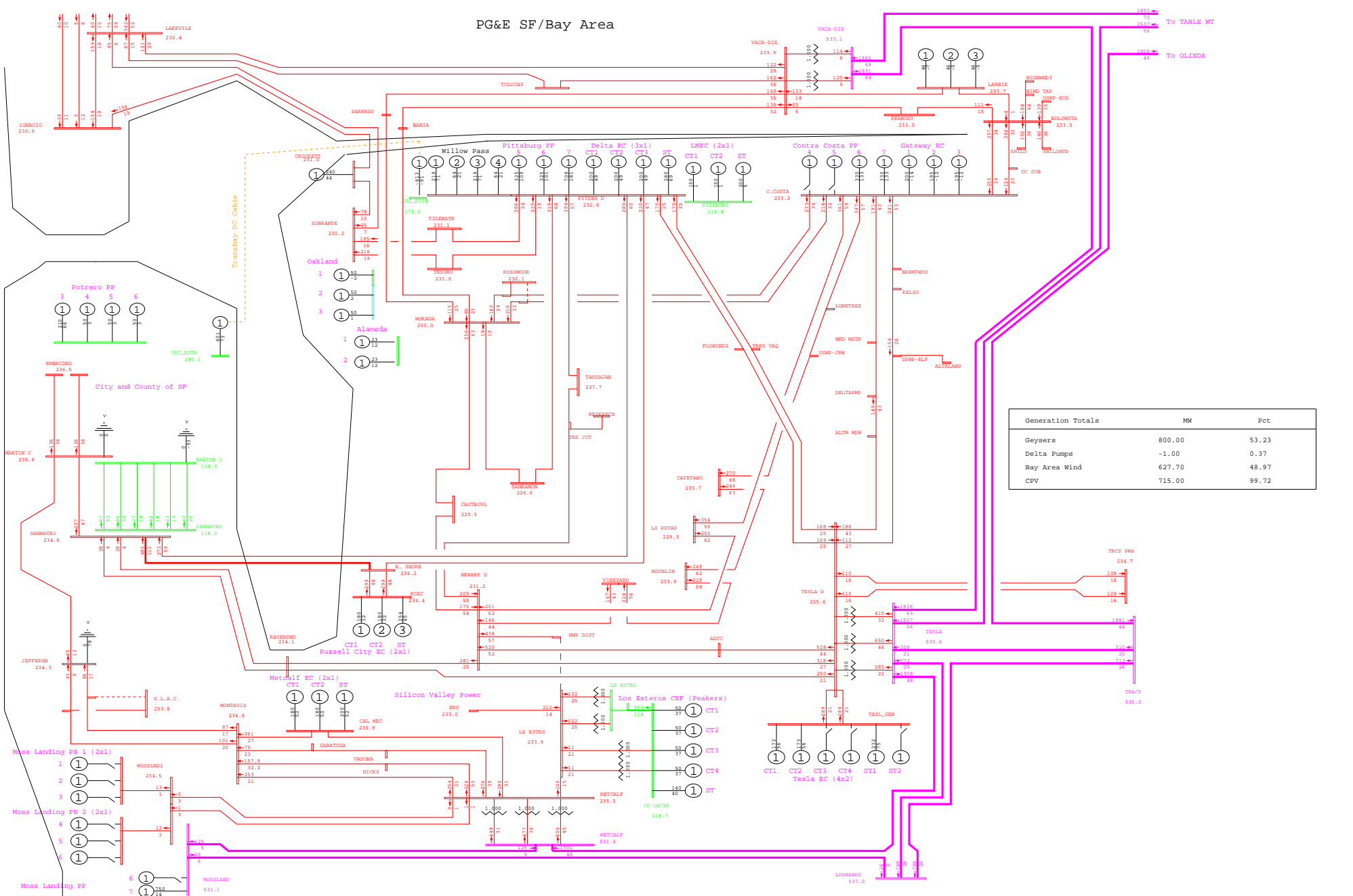
N-1 TRACY - LIVERMORE LABS 230kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 196
 MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:15 2008 wlopssv2-2013mrnt_pst_ptsb-199.sav

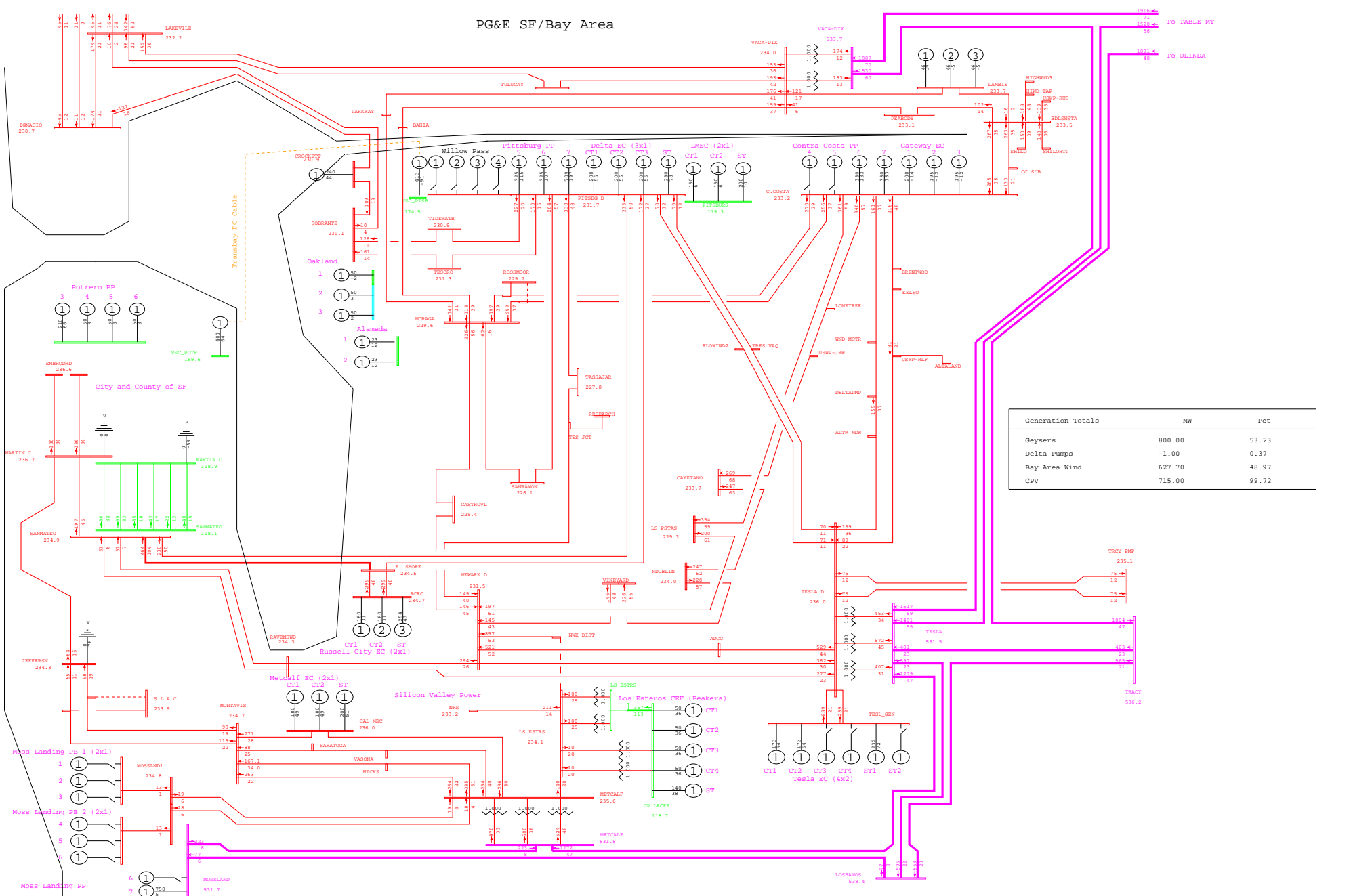


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 OLEUM - NORTH TOWER - CHRISTIE 115kV LINE & NORTH TOWER LOAD
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 199

MW/% rate
 bayarea_2013_PGE_v4.0.rtf
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:24 2008 wlopssv2-2013mrnt_pre_ptsb-249.sav

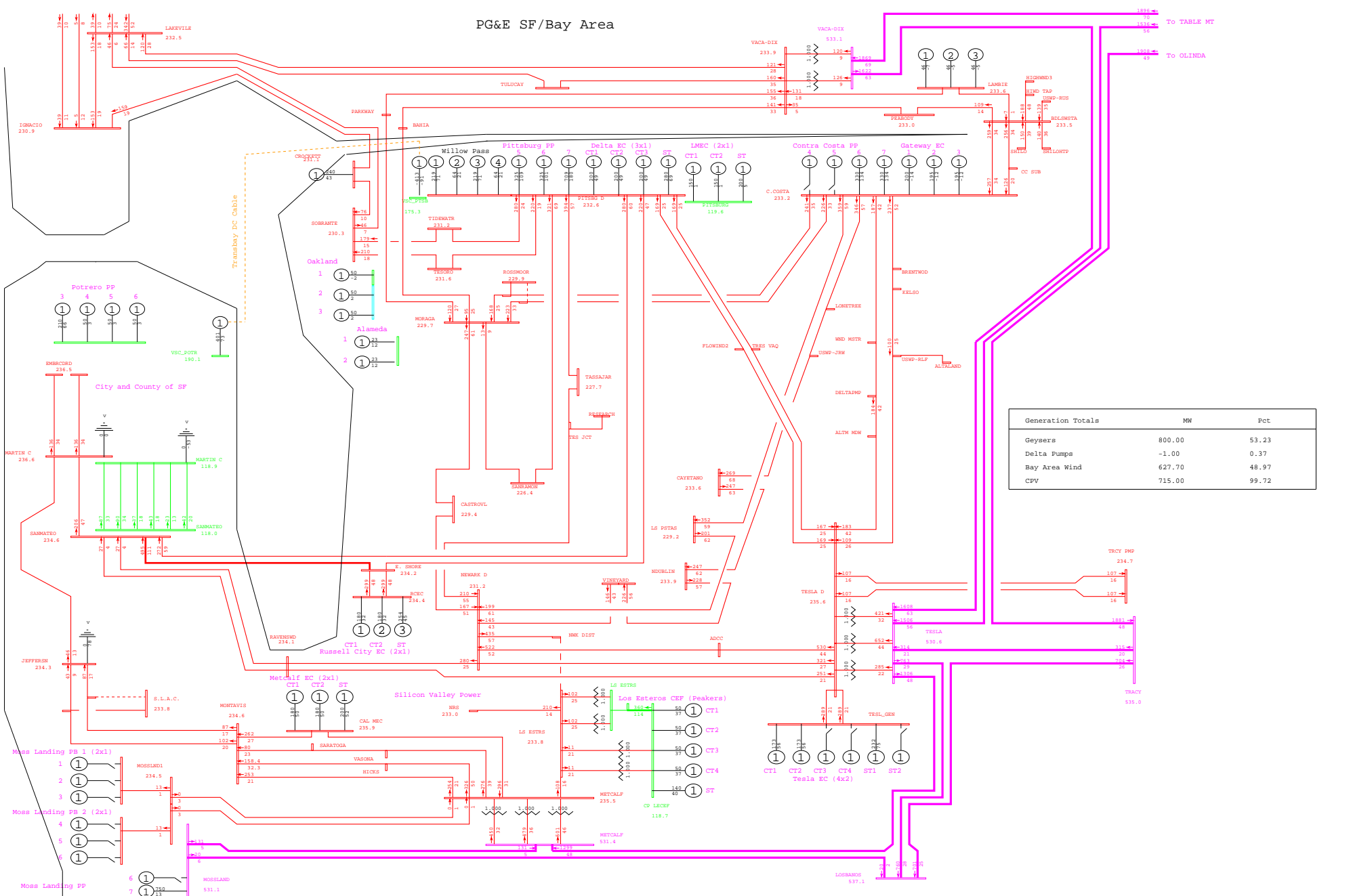


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 SOBRANTE - MORAGA 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 249

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:17 2008 wlopssv2-2013mrnt_pst_ptsb-249.sav

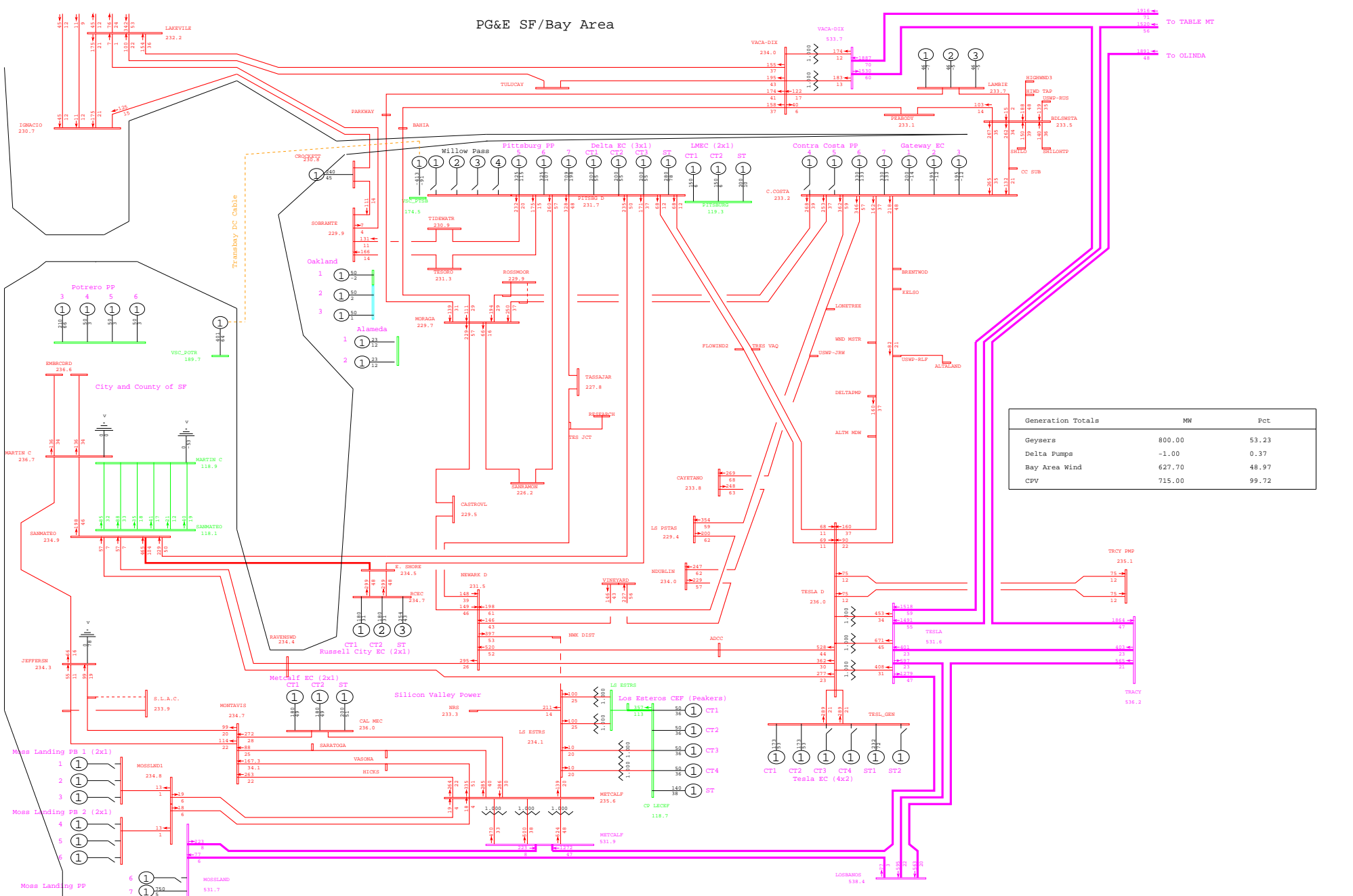


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 SOBRANTE - MORAGA 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 249

MW/% rate
 bayarea_2013_PGE_v4.cfw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:25 2008 wlopssv2-2013mrnt_pre_ptsb-285.sav

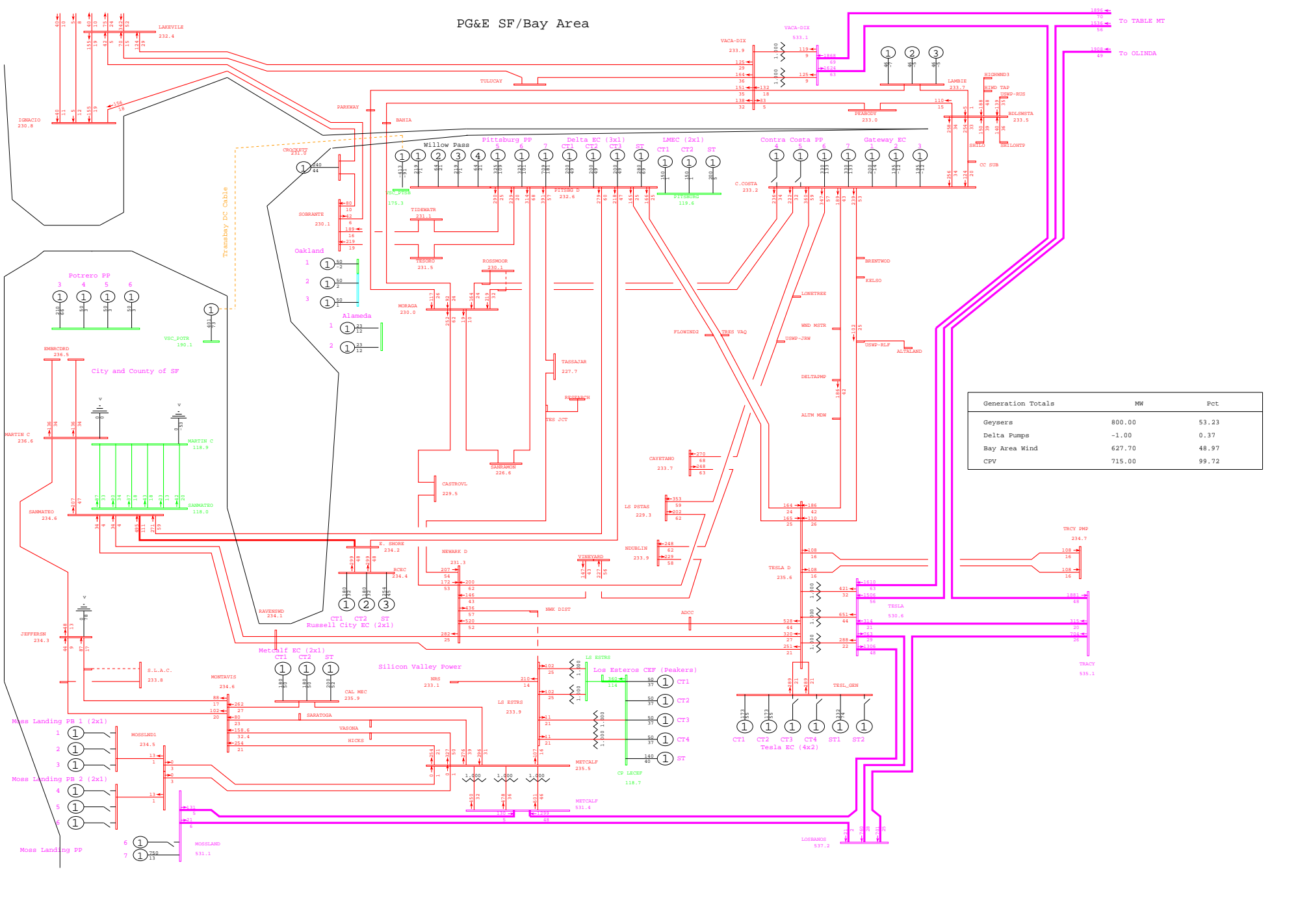


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 BELMONT - BAIR 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 285

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:18 2008 wlopssv2-2013mrnt_pst_ptsb-285.sav

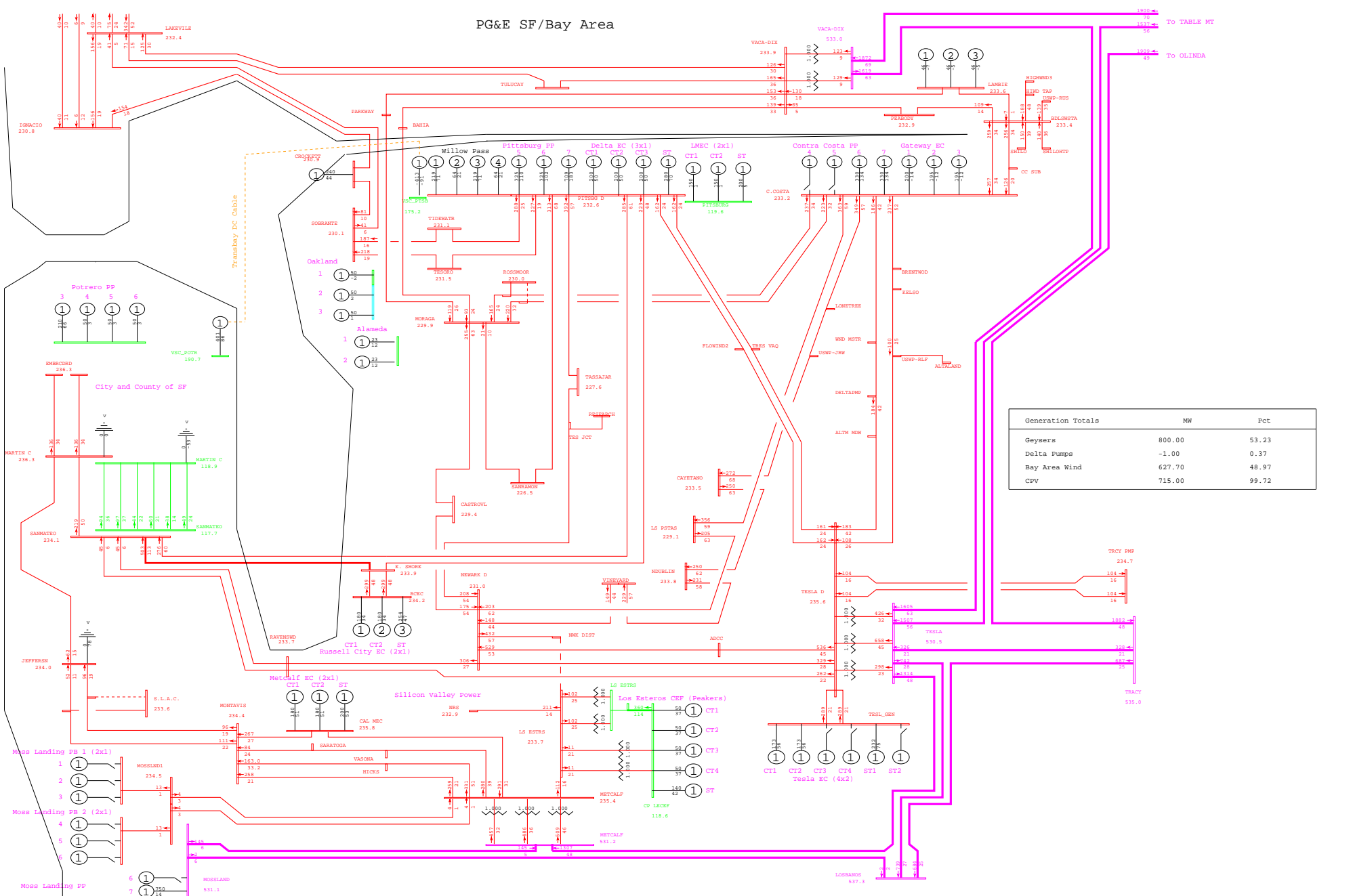


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-1 BELMONT - BAIR 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 285

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



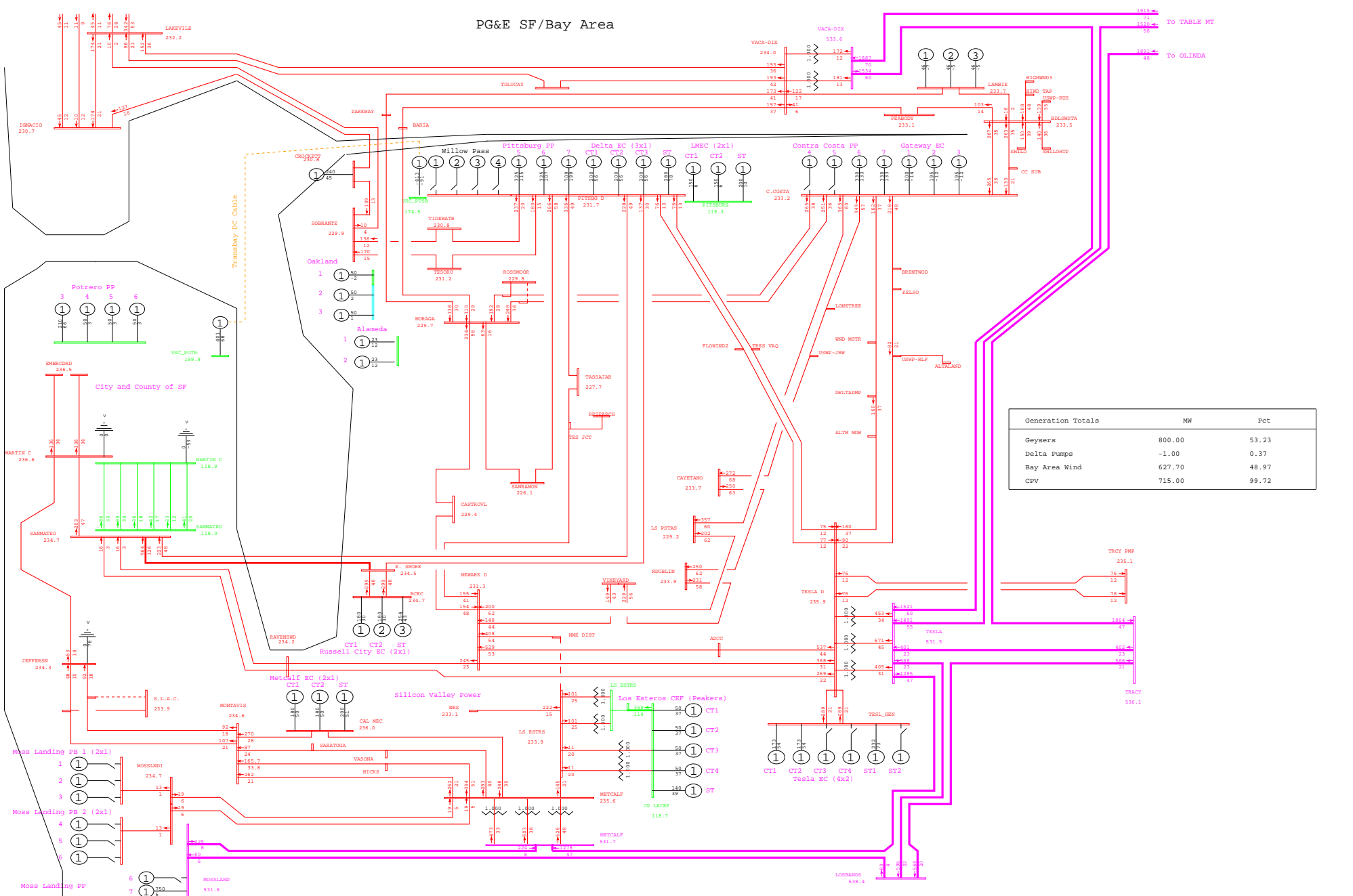
General Electric International, Inc. PSLF Program Fri Sep 26 20:49:19 2008 wlopssv2-2013mrnt_pst_ptsb-295.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

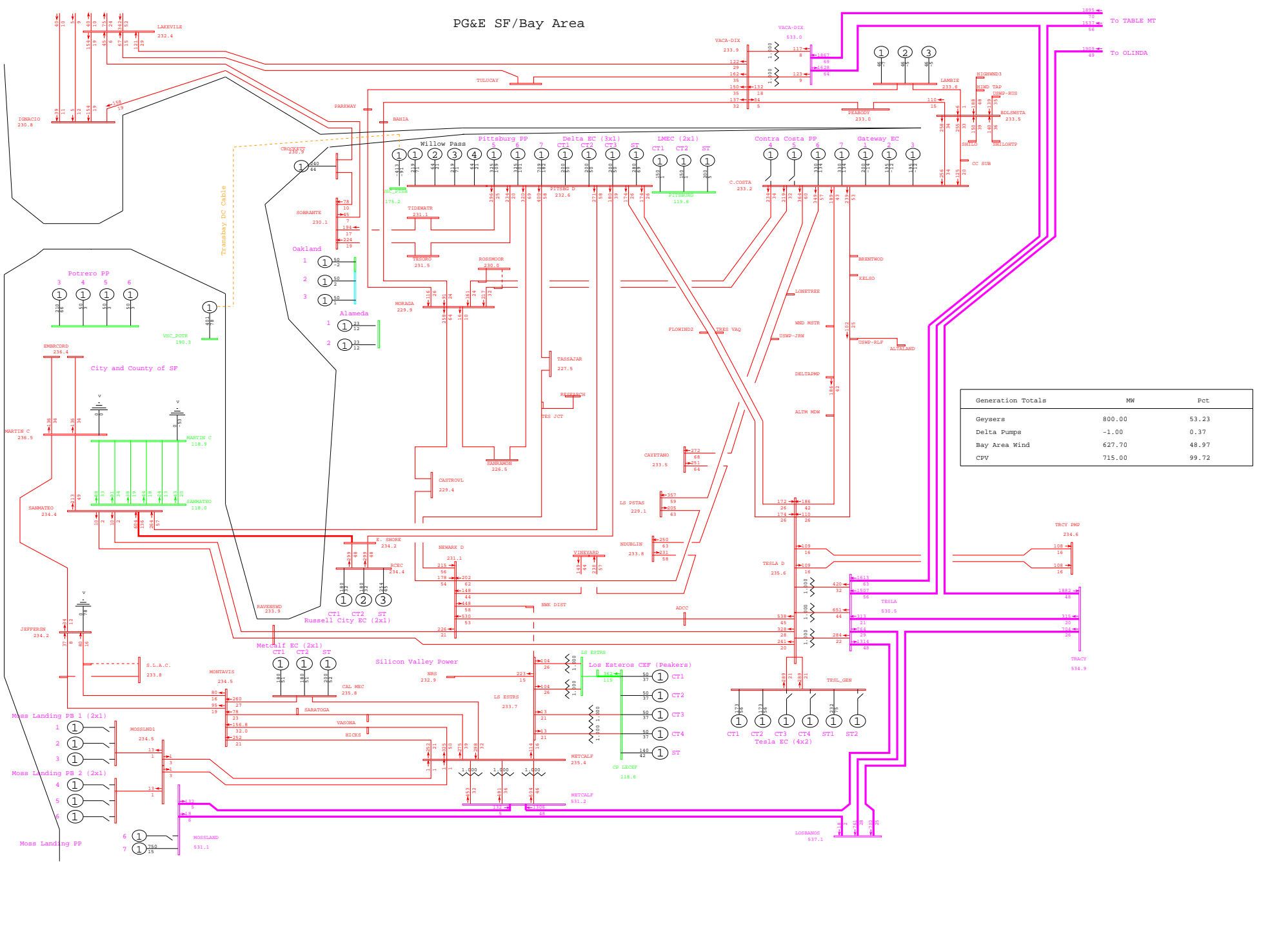
N-1 SAN FRANCISCO AIRPORT - UNITED COGEN 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 295

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



PG&E SF/Bay Area



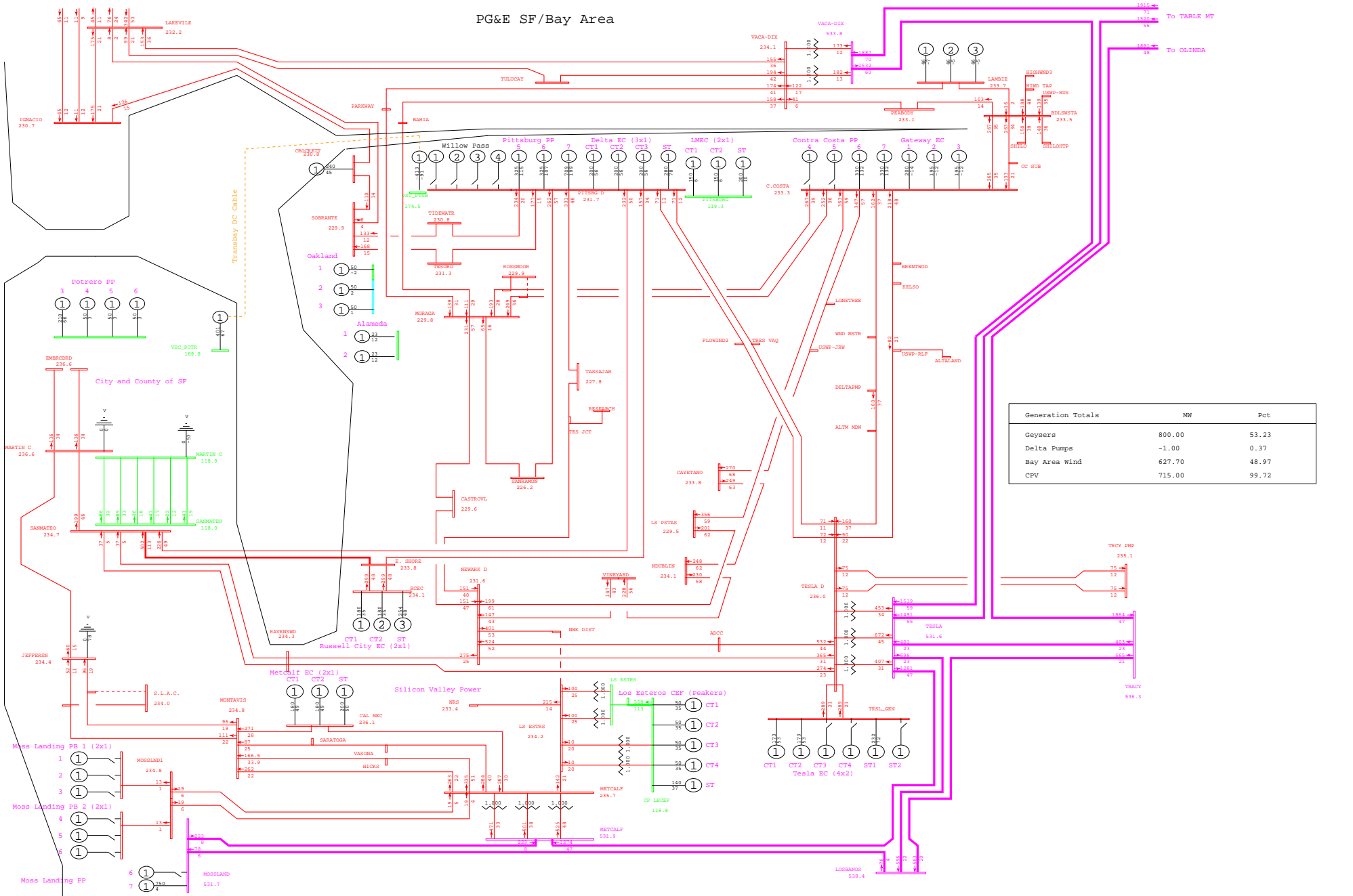
General Electric International, Inc. PSLF Program Fri Sep 26 20:49:19 2008 wlopssv2-2013mrnt_pst_ptsb-300.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 EAST SHORE - DUMBARTON 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 300
 MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:28 2008 wlopssv2-2013mrnt_pre_ptsb-301.sav

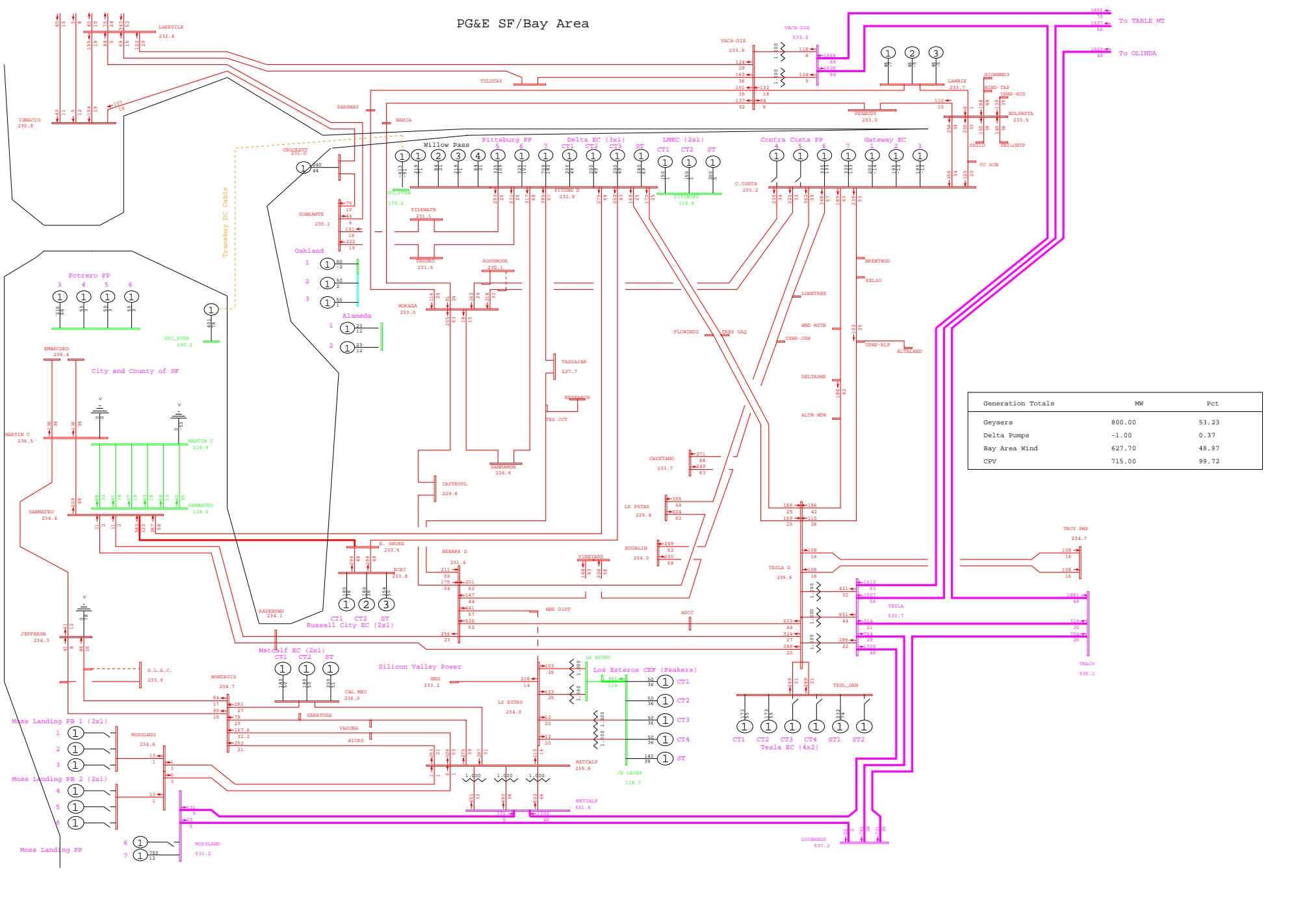


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 DUMBARTON - NEWARK D 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 301

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:21 2008 wlopssv2-2013mrnt_pst_ptsb-301.sav

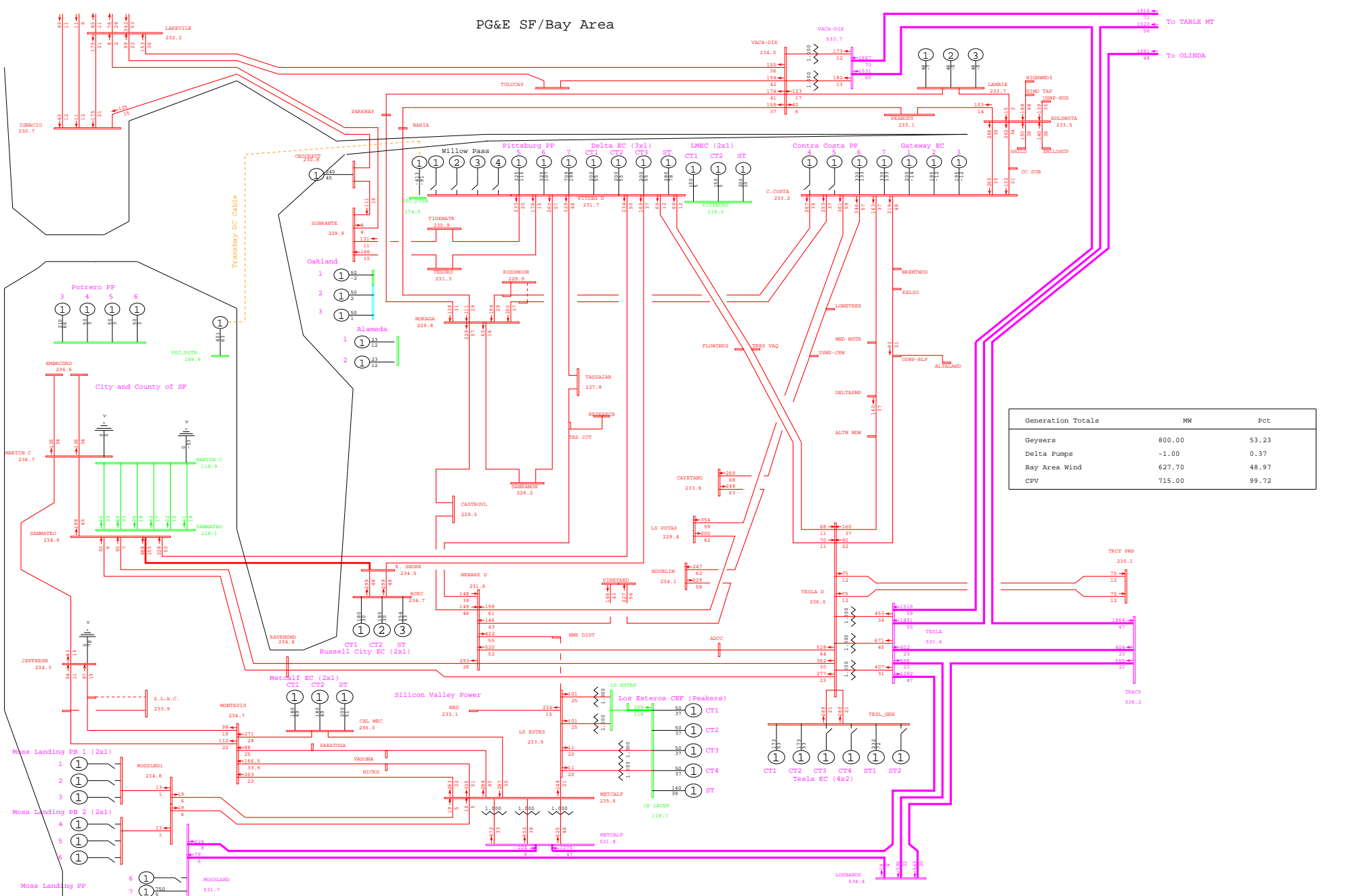


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 DUMBARTON - NEWARK D 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 301

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:29 2008 wlopssv2-2013mrnt_pre_ptsb-304.sav

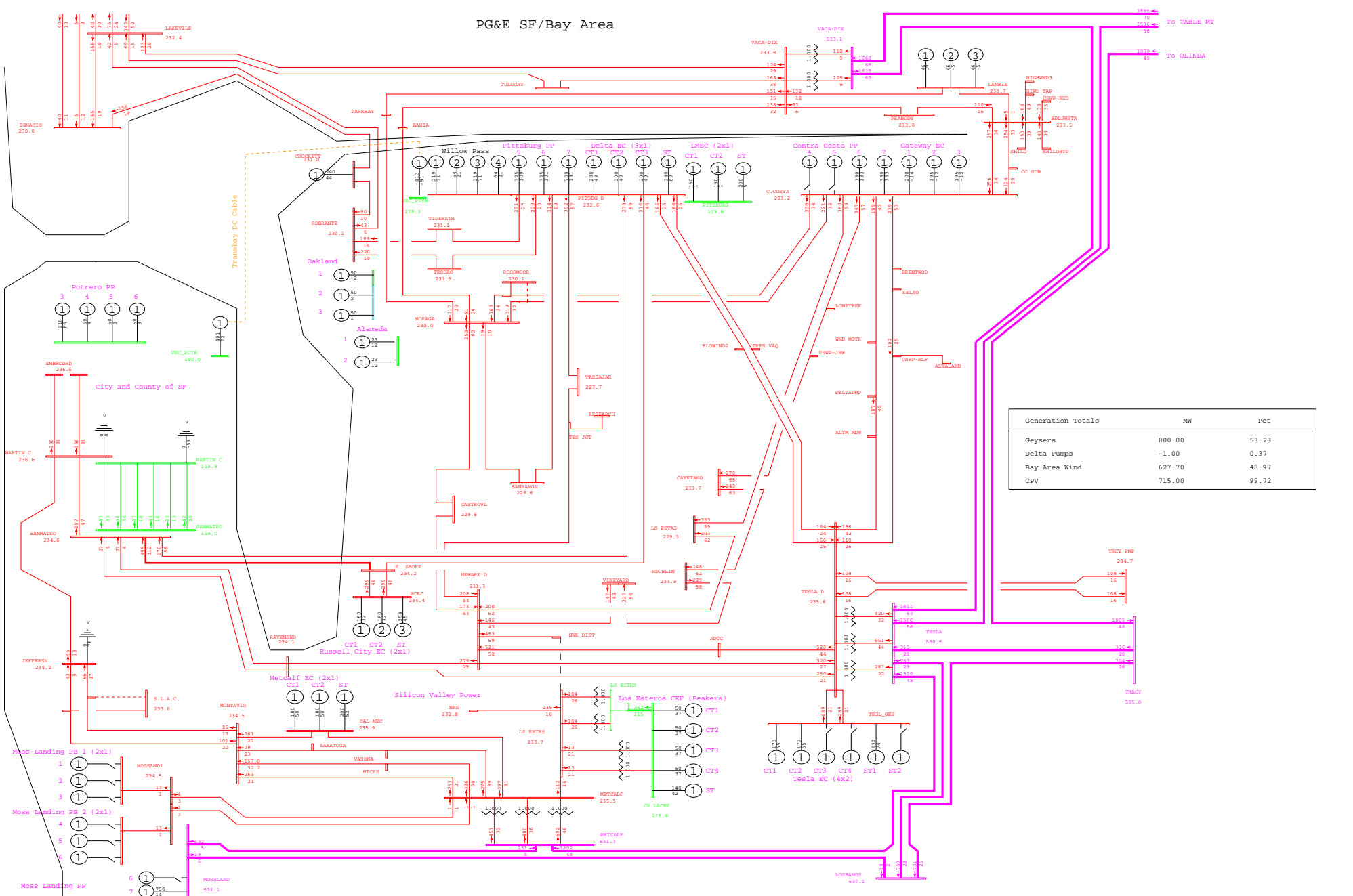


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 NEWARK - NORTHERN #1 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 304

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:22 2008 wlopssv2-2013mrnt_pst_ptsb-304.sav

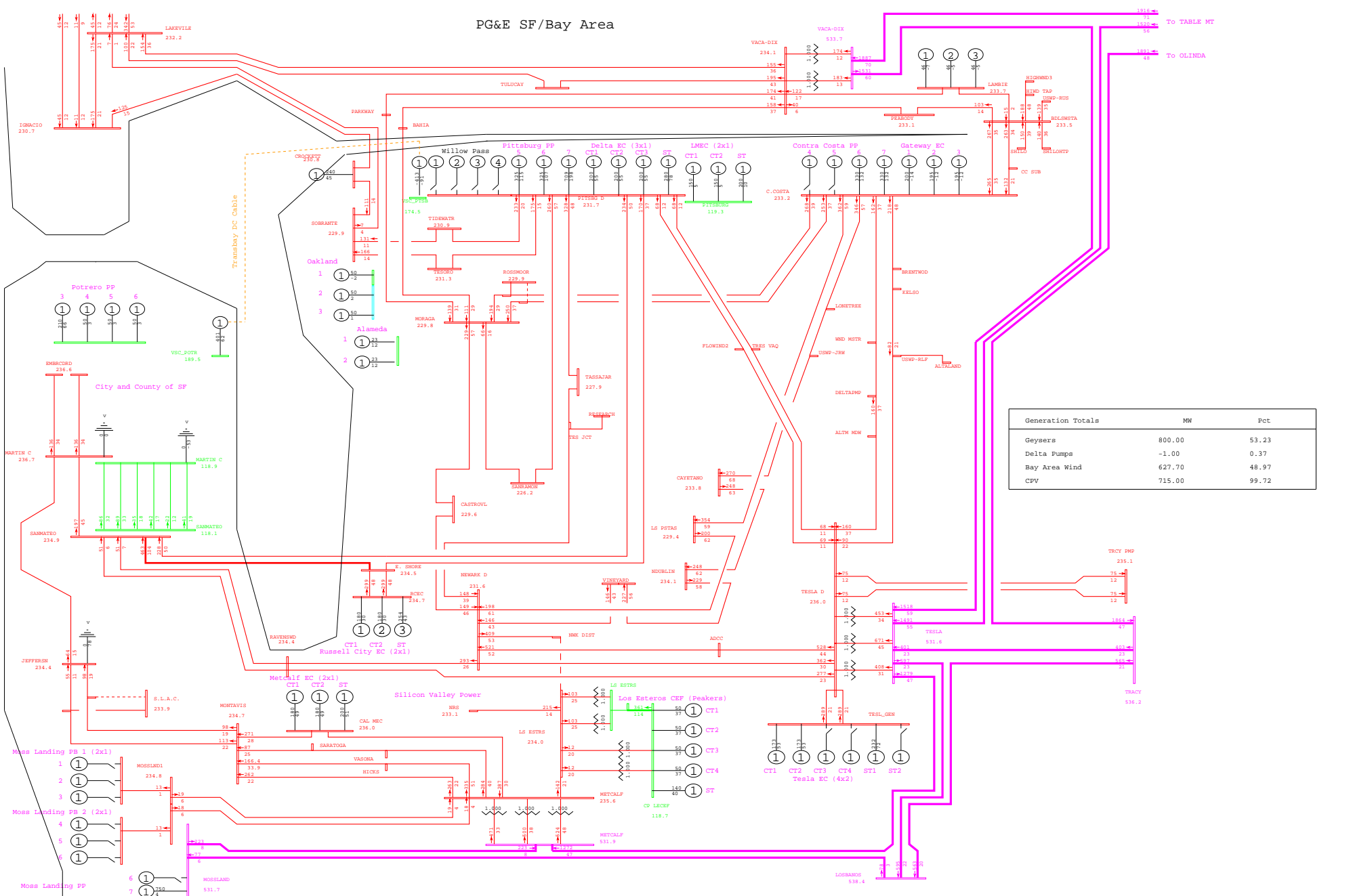


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 NEWARK - NORTHERN #1 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 304

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:31 2008 wlopssv2-2013mrnt_pre_ptsb-305.sav

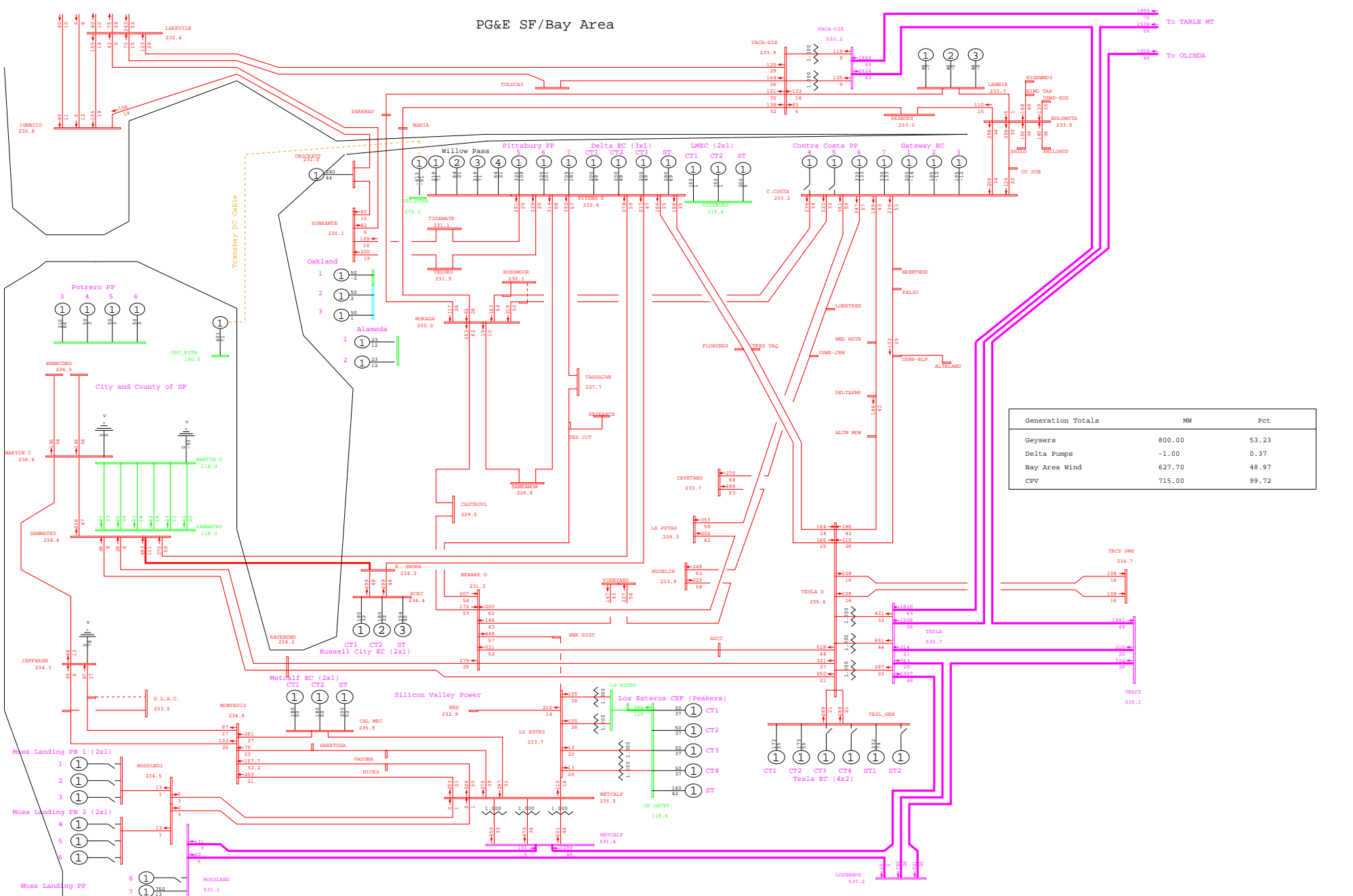


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 NEWARK - NORTHERN #2 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 305

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



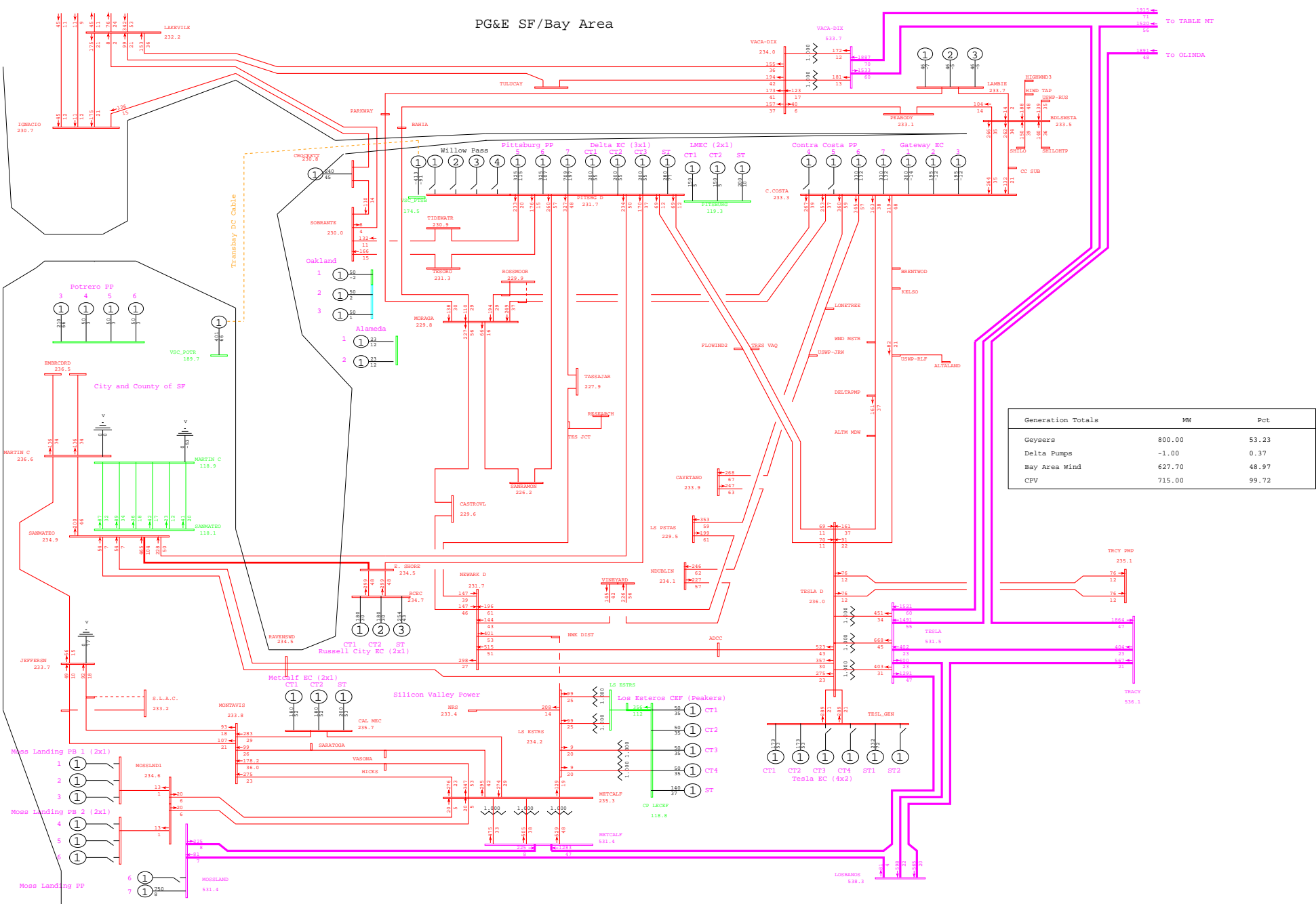
General Electric International, Inc. PSLF Program Fri Sep 26 20:49:23 2008 wlopssv2-2013mrnt_pst_ptsb-305.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 NEWARK - NORTHERN #2 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 305
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:32 2008 wloppsv2-2013mrnt_pre_ptsb-314.sav

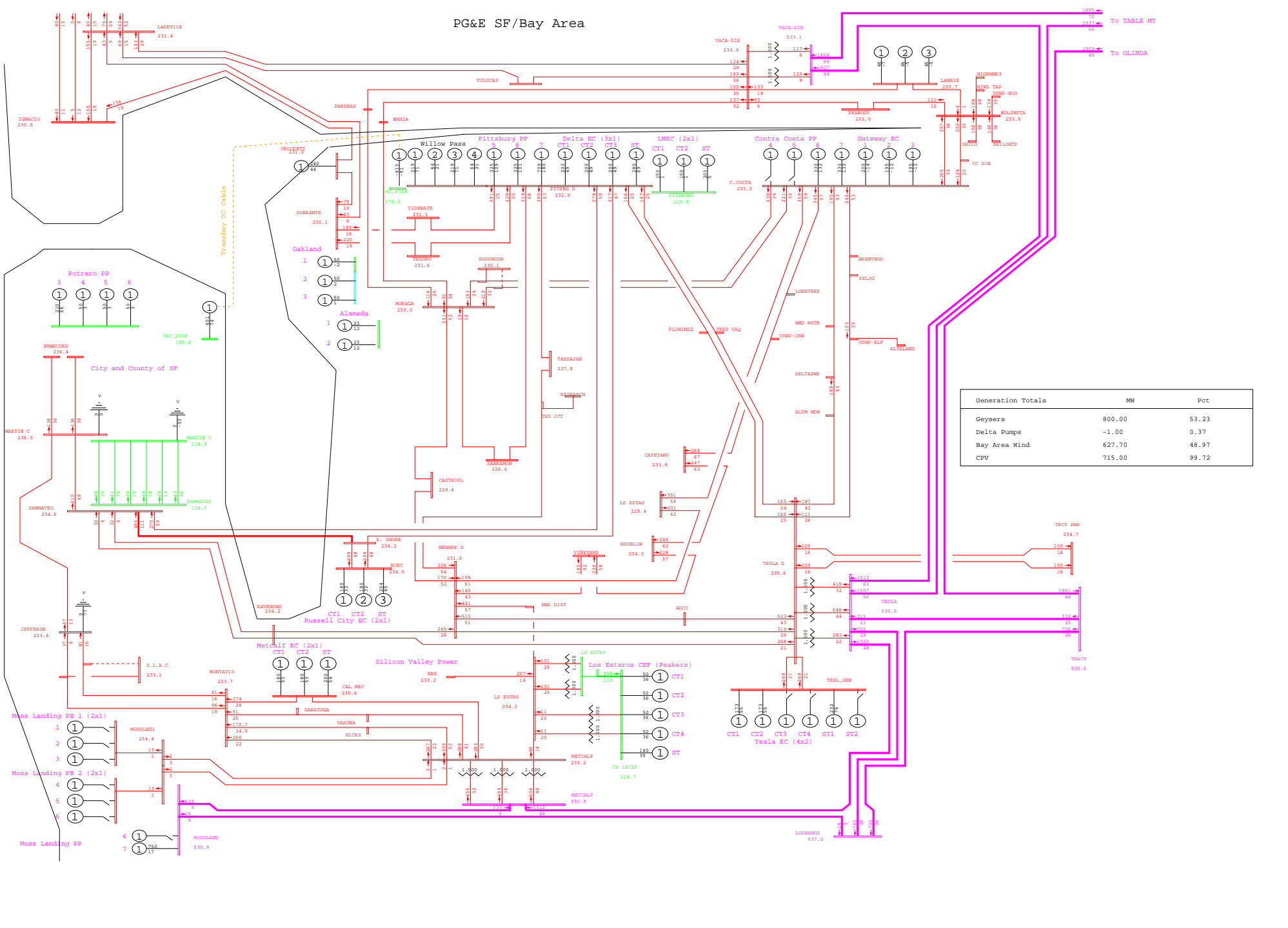


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 NEWARK - LAWRENCE - MOFFET - LOCKHEED 115kV LINE (Xfr. Lockheed)
 wloppsv2.pfp, STEADY STATE, CASE NUMBER 314

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:24 2008 wlopssv2-2013mrnt_pst_ptsb-314.sav

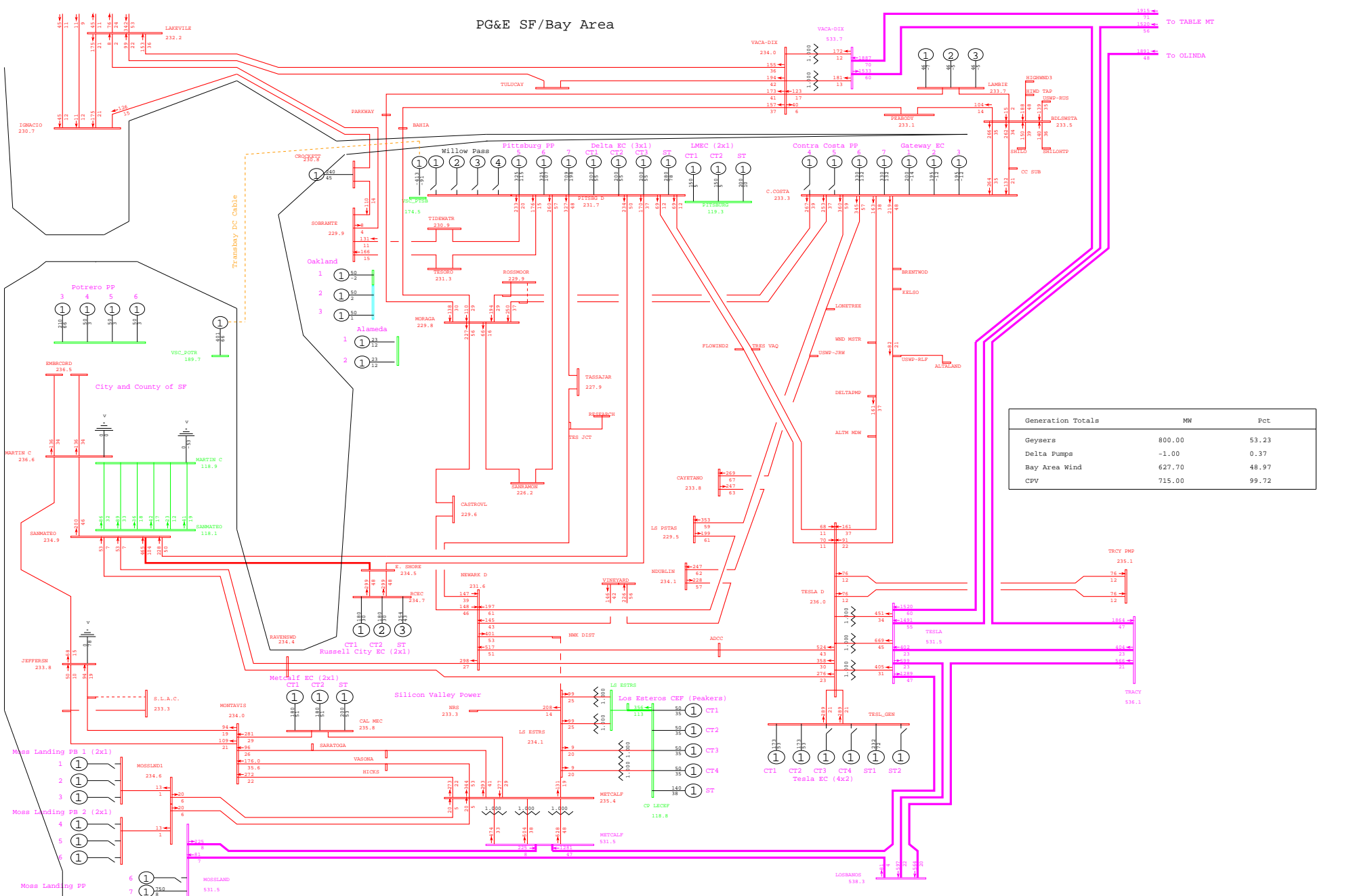


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-1 NEWARK - LAWRENCE - MOFFET - LOCKHEED 115kV LINE (Xfr. Lockheed)
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 314

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:32 2008 wlopssv2-2013mrnt_pre_ptsb-315.sav

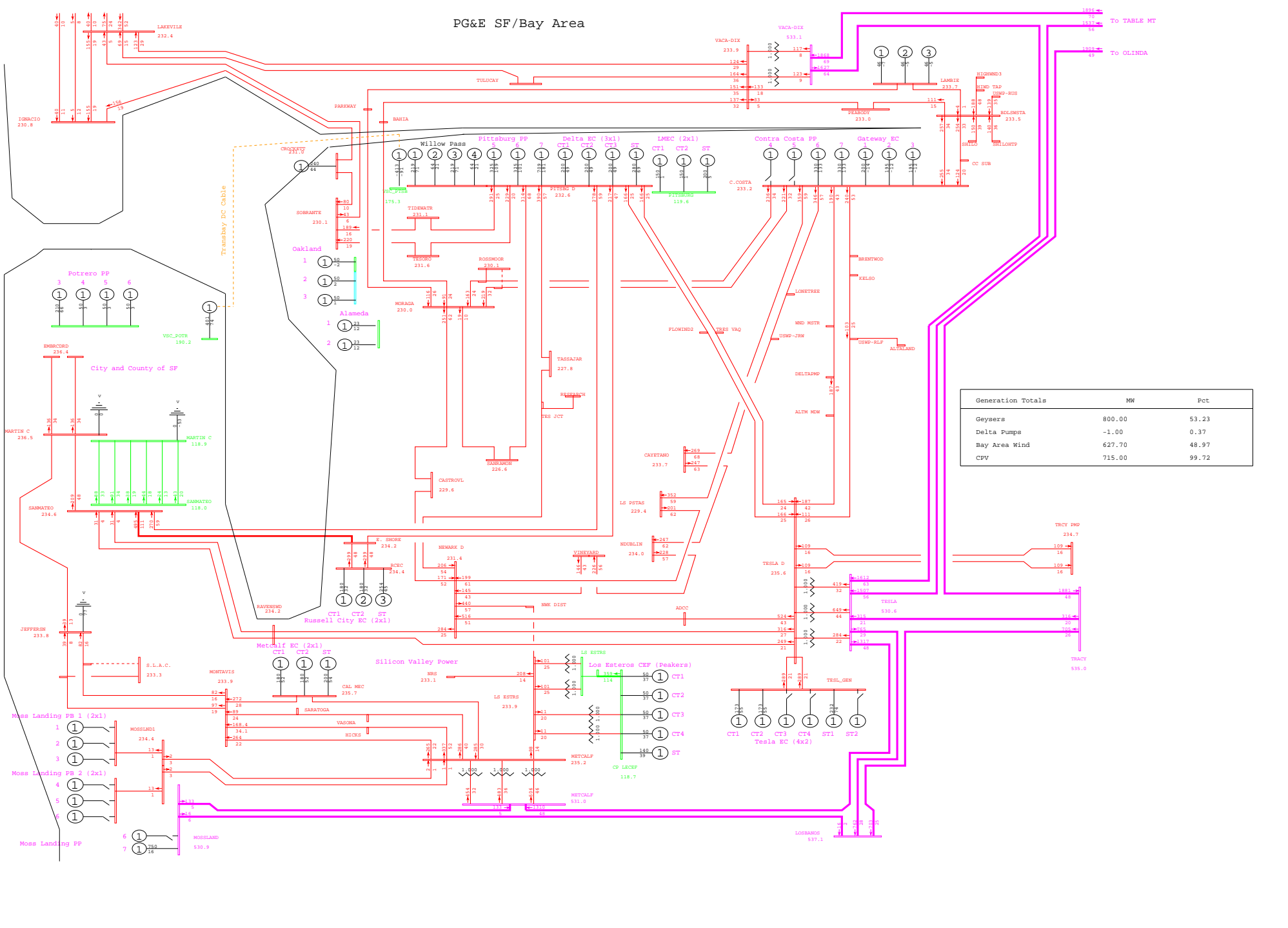


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 NEWARK - AMD - APPLIED MATERIALS 115kV LINE (Xfr. Lockheed)
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 315

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:24 2008 wlopssv2-2013mrnt_pst_ptsb-315.sav

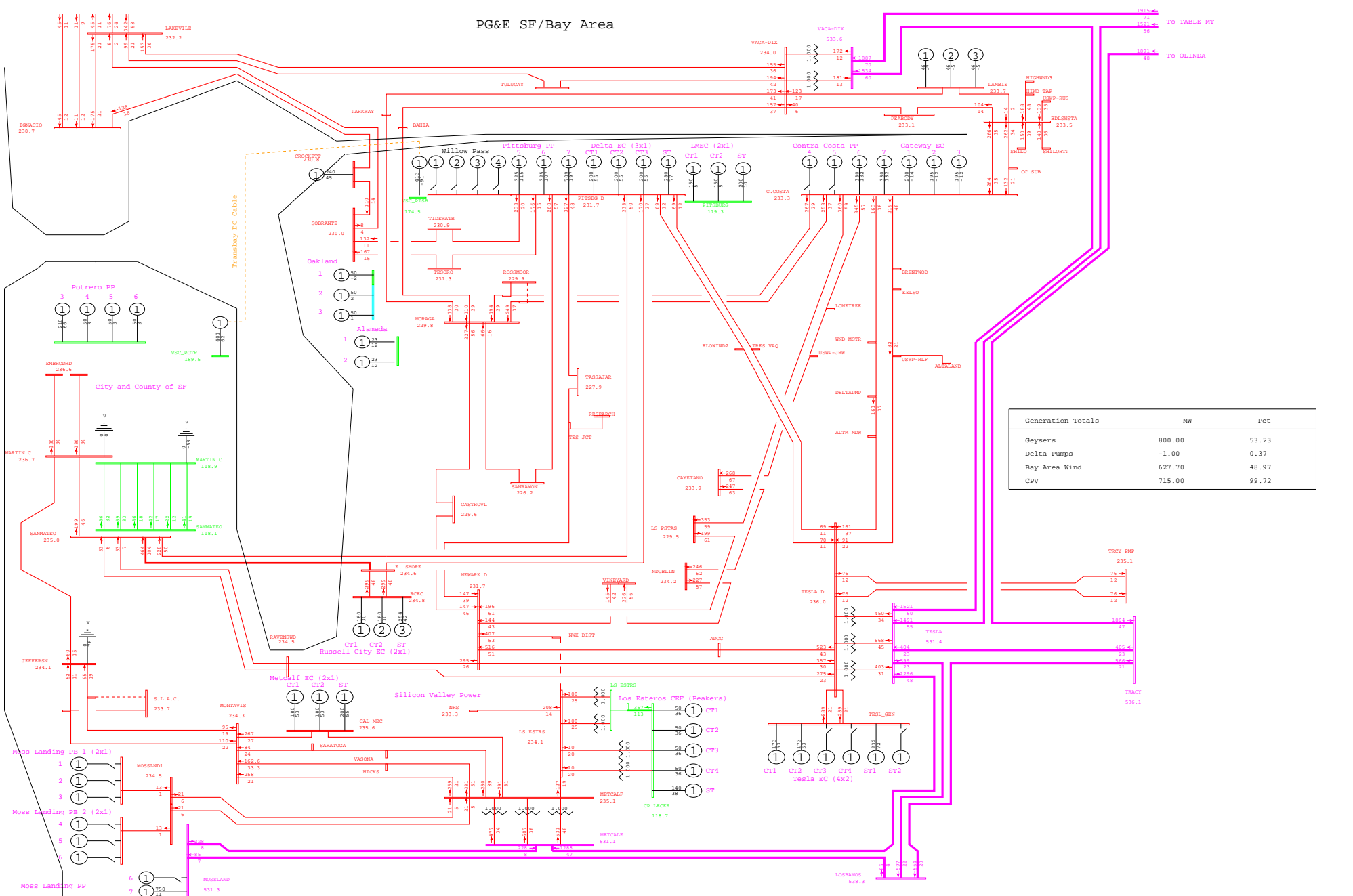


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-1 NEWARK - AMD - APPLIED MATERIALS 115kV LINE (Xfr. Lockheed)
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 315

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:34 2008 wlopssv2-2013mrnt_pre_ptsb-316.sav

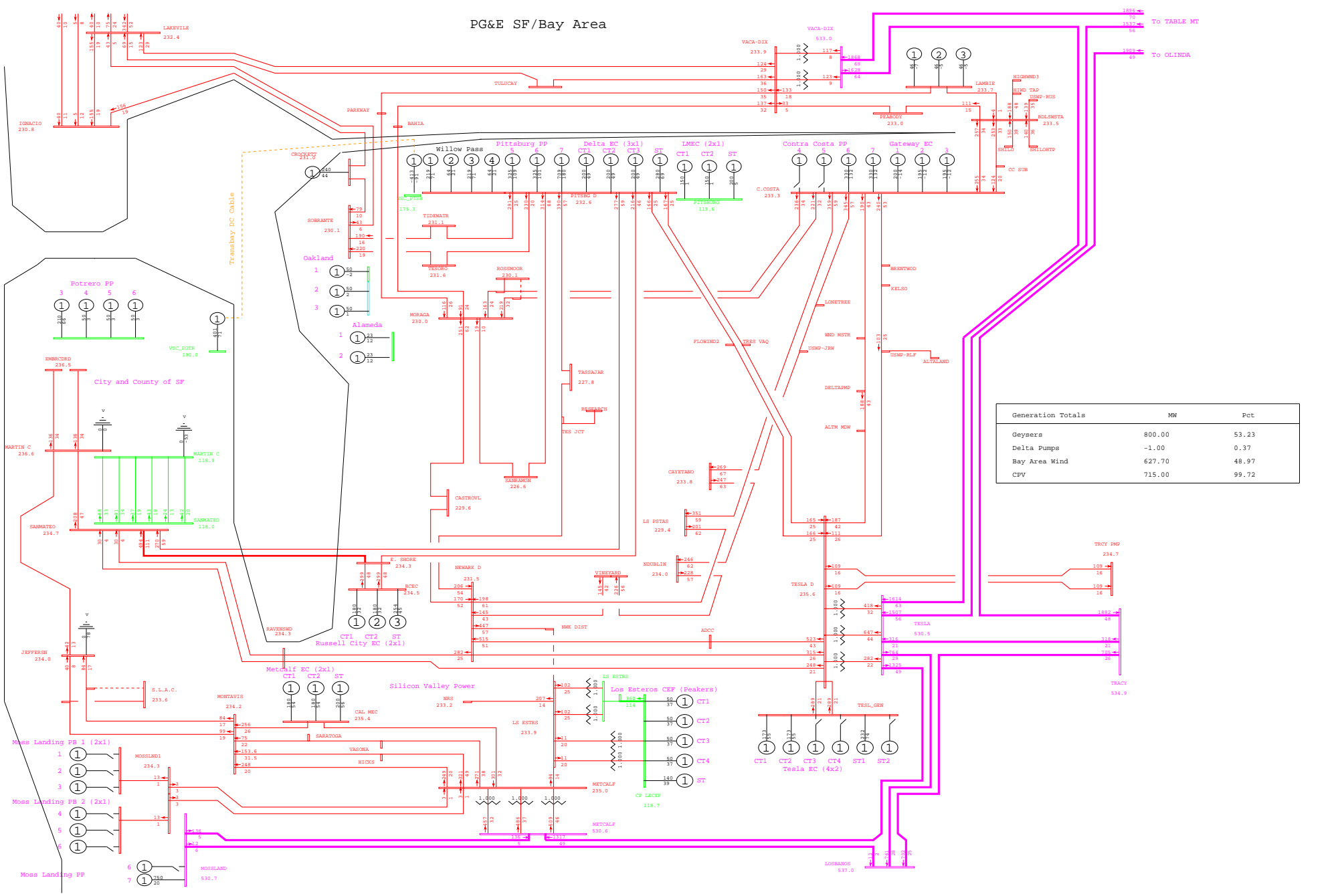


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-1 NEWARK - DIXON LANDING 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 316

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:25 2008 wlopssv2-2013mrnt_pst_ptsb-316.sav

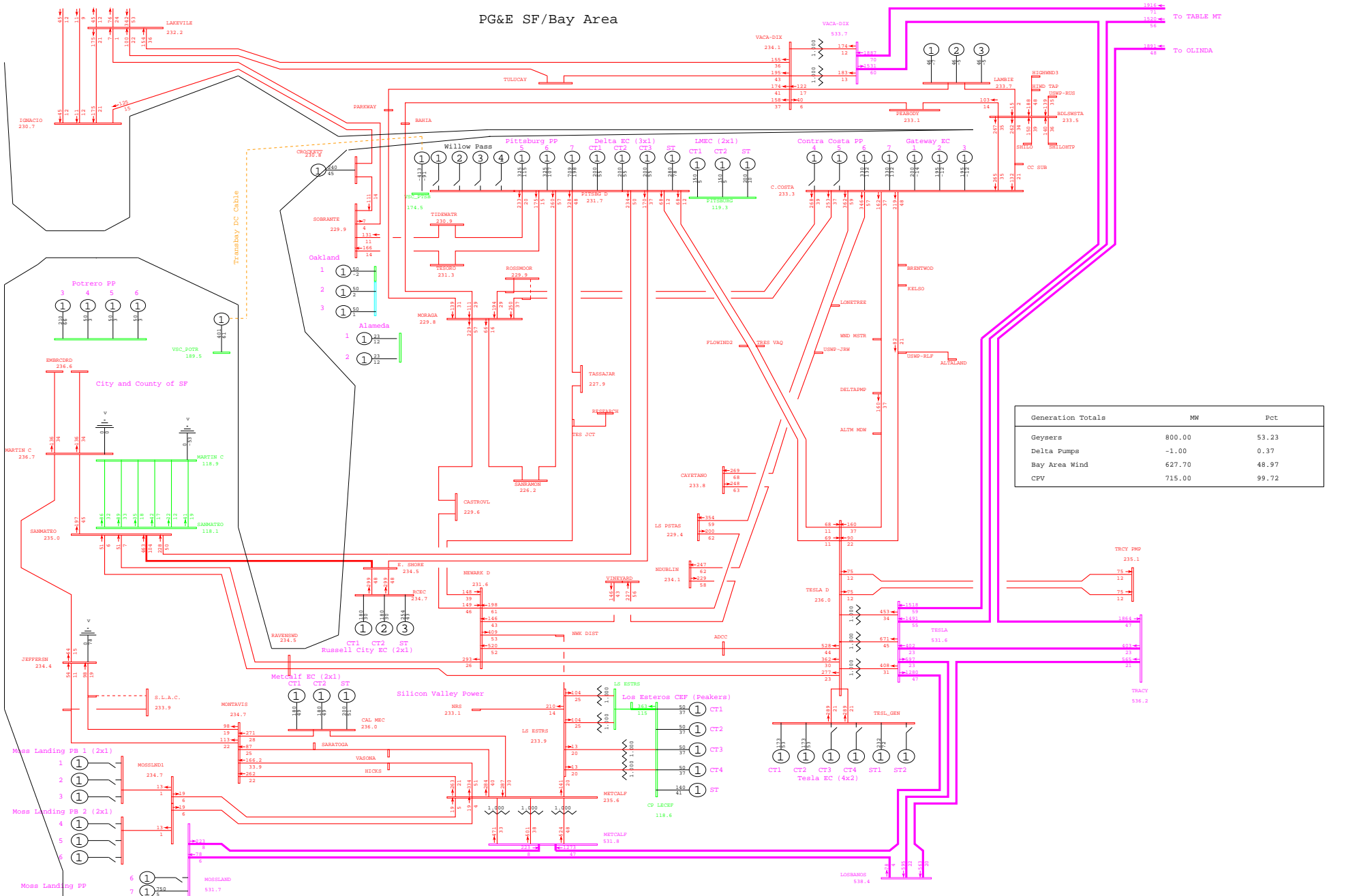


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

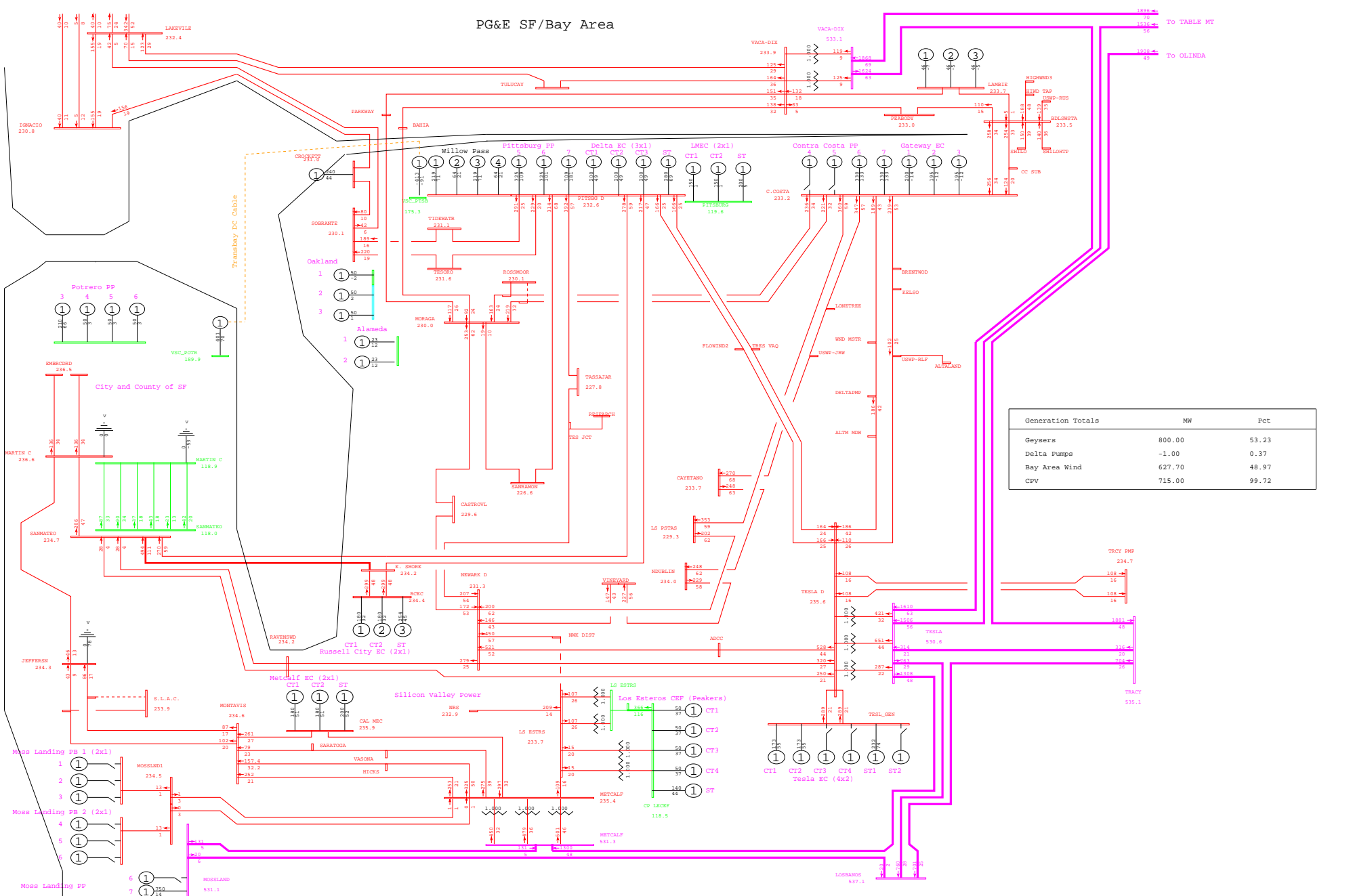
N-1 NEWARK - DIXON LANDING 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 316

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



PG&E SF/Bay Area



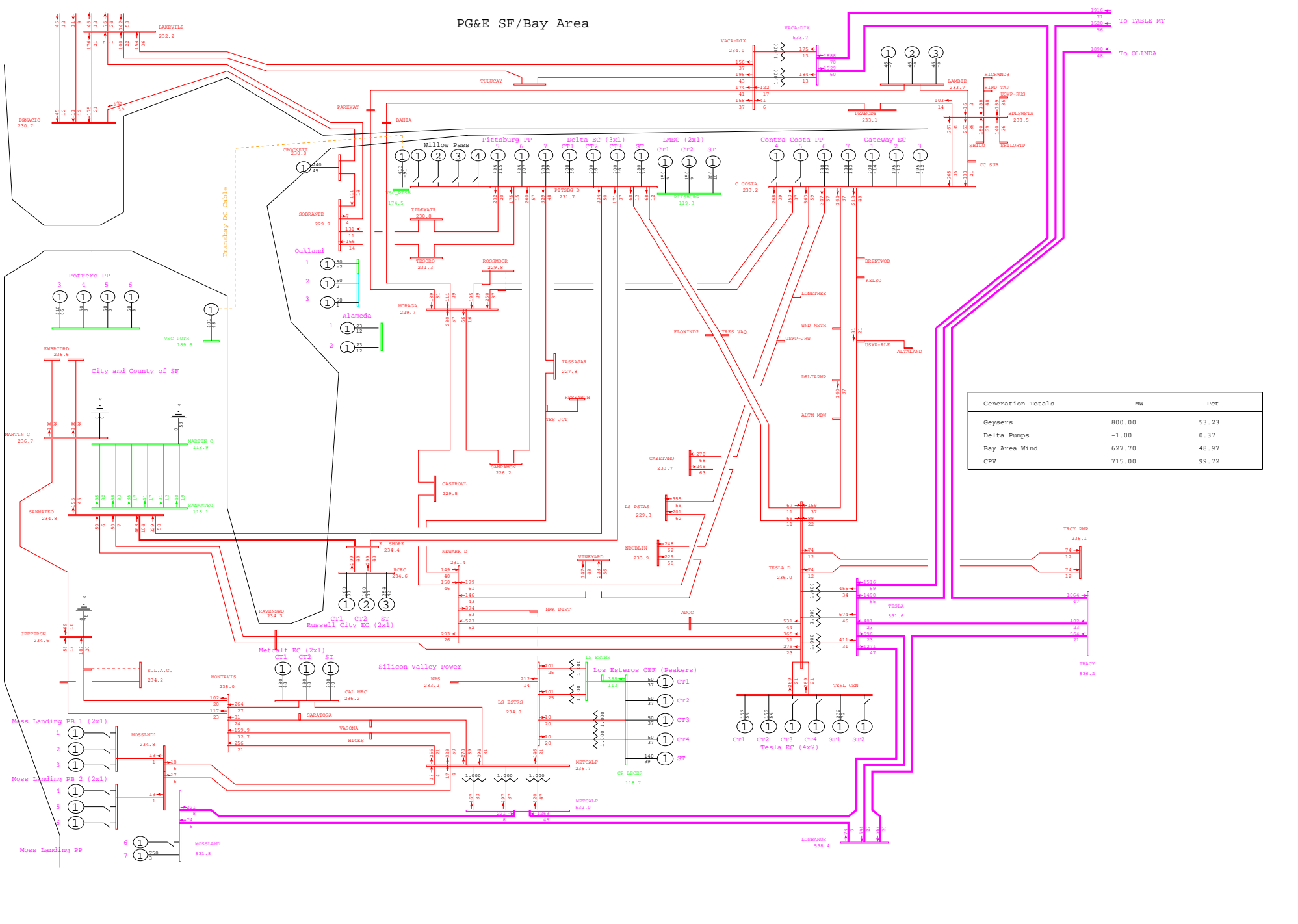
General Electric International, Inc. PSLF Program Fri Sep 26 20:49:26 2008 wlopssv2-2013mrnt_pst_ptsb-318.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 NEWARK - ZANKER - TRIMBLE 115kV LINE (Xfr. Agnews)
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 318
 MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:36 2008 wlopssv2-2013mrnt_pre_ptsb-328.sav

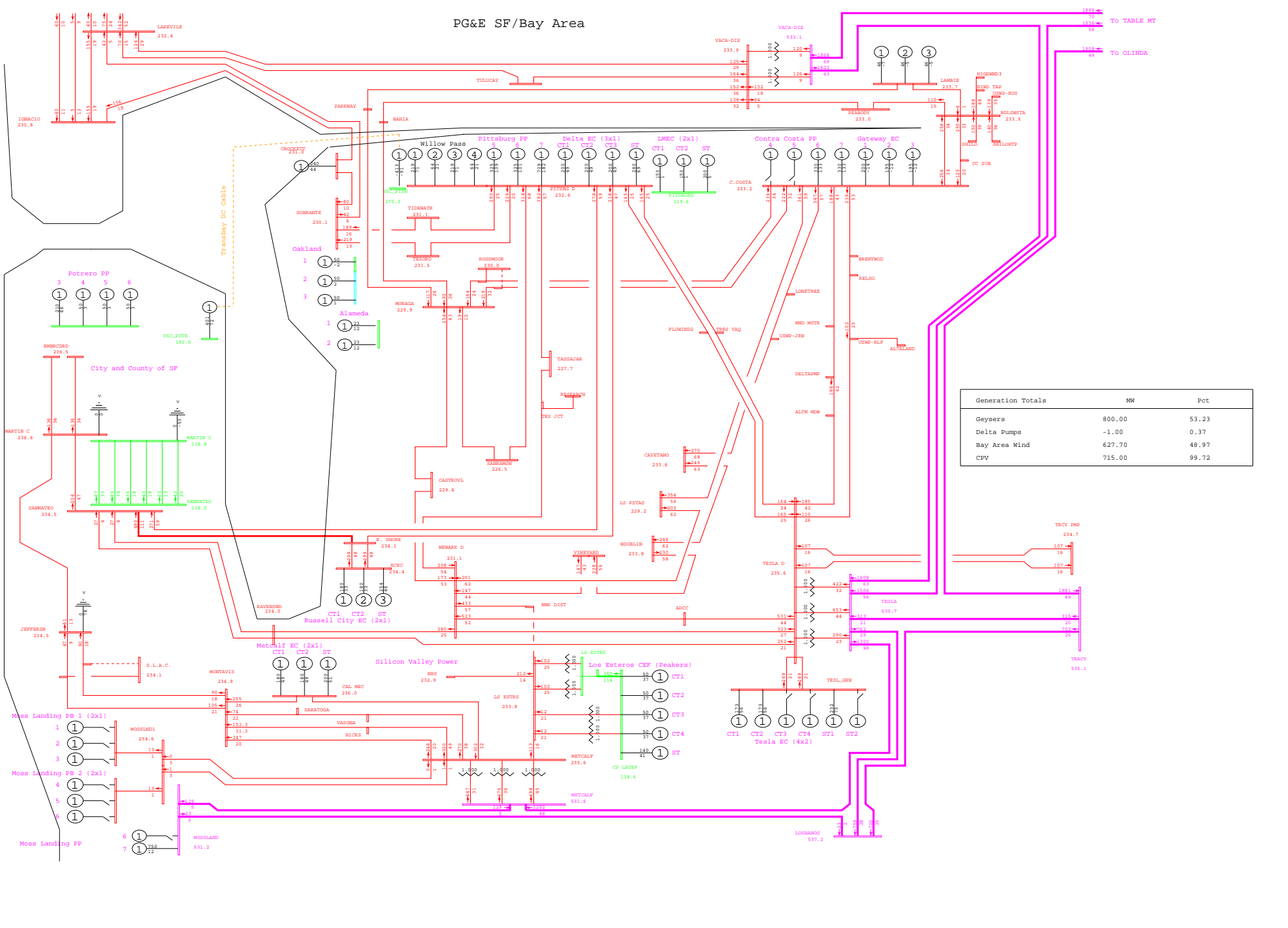


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 MONTA VISTA - PHILLIPS - LAWRENCE 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 328

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:27 2008 wlopssv2-2013mrnt_pst_ptsb-328.sav

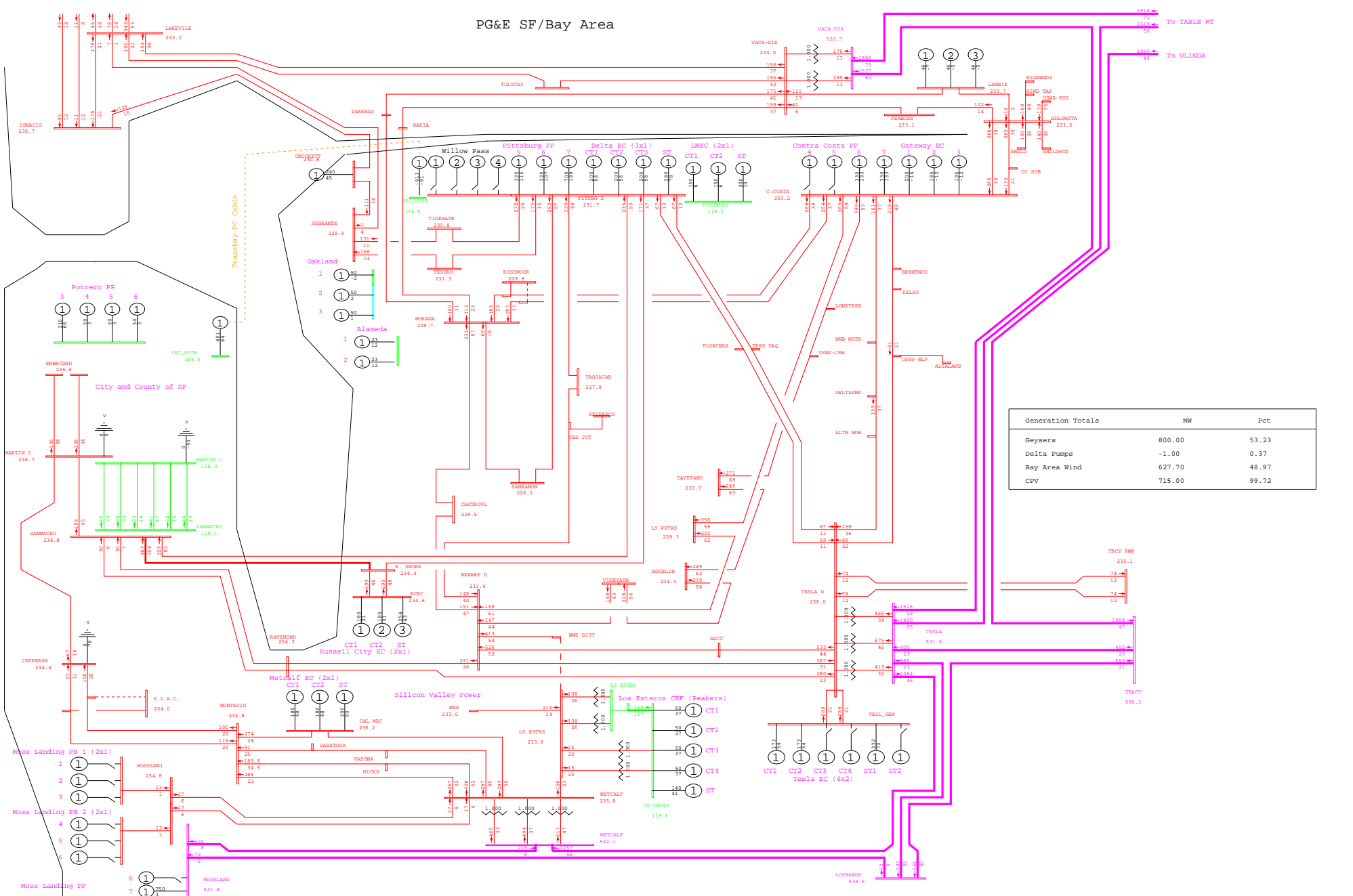


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-1 MONTA VISTA - PHILLIPS - LAWRENCE 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 328

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:38 2008 wlopssv2-2013mrnt_pre_ptsb-335.sav

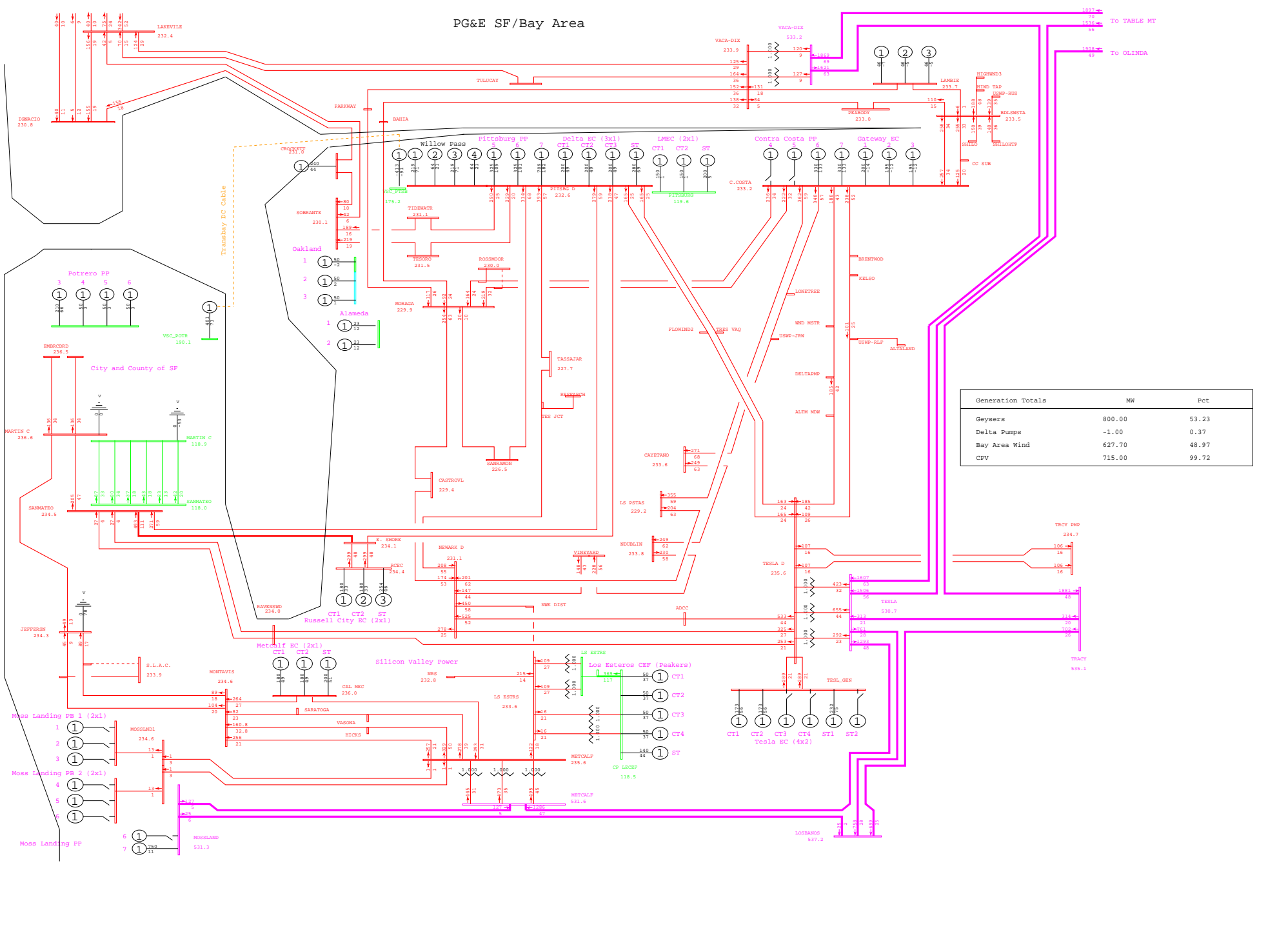


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 SAN JOSE A - EL PATIO 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 335

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



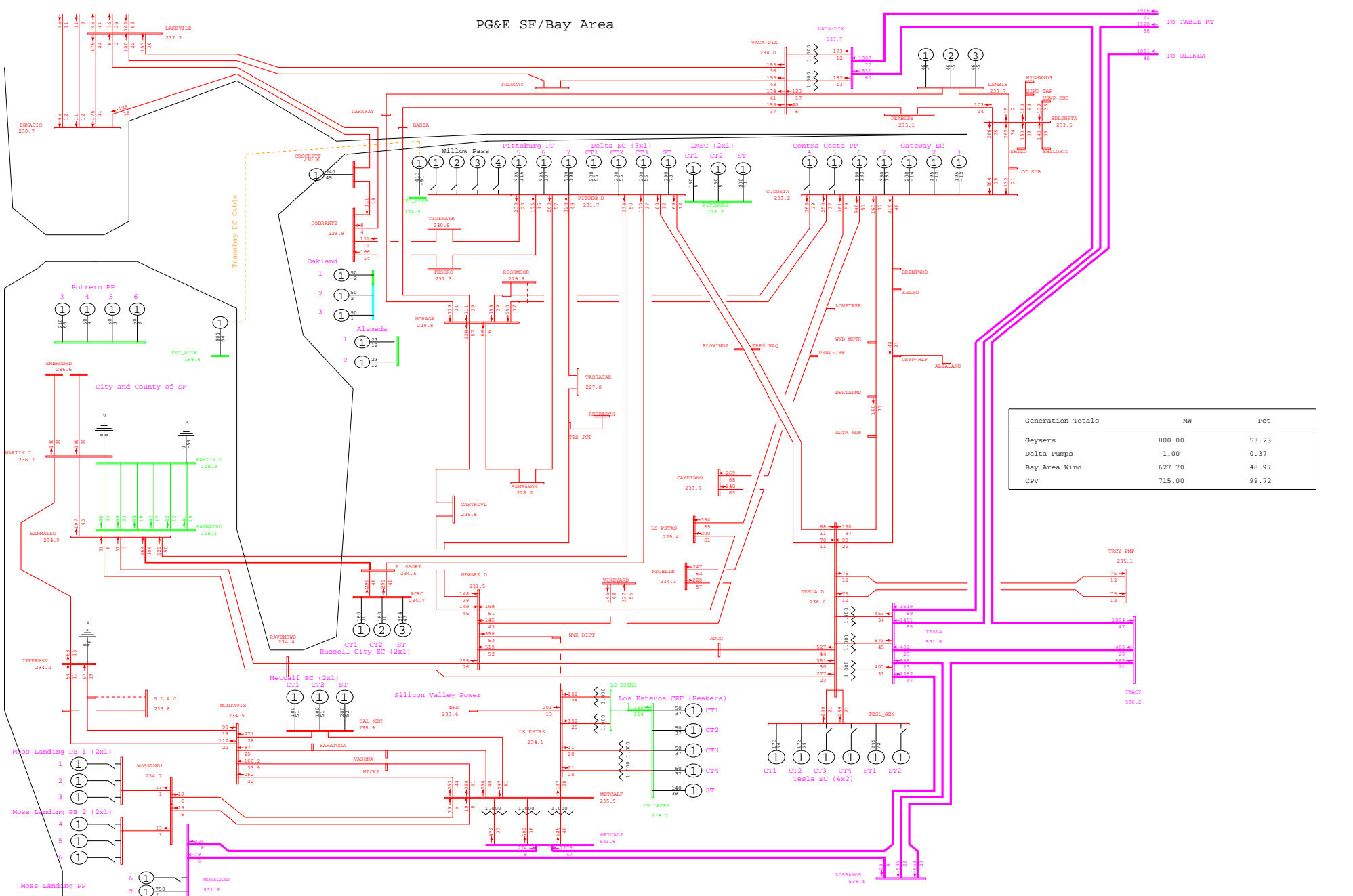
General Electric International, Inc. PSLF Program Fri Sep 26 20:49:28 2008 wlopssv2-2013mrnt_pst_ptsb-335.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 SAN JOSE A - EL PATIO 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 335
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



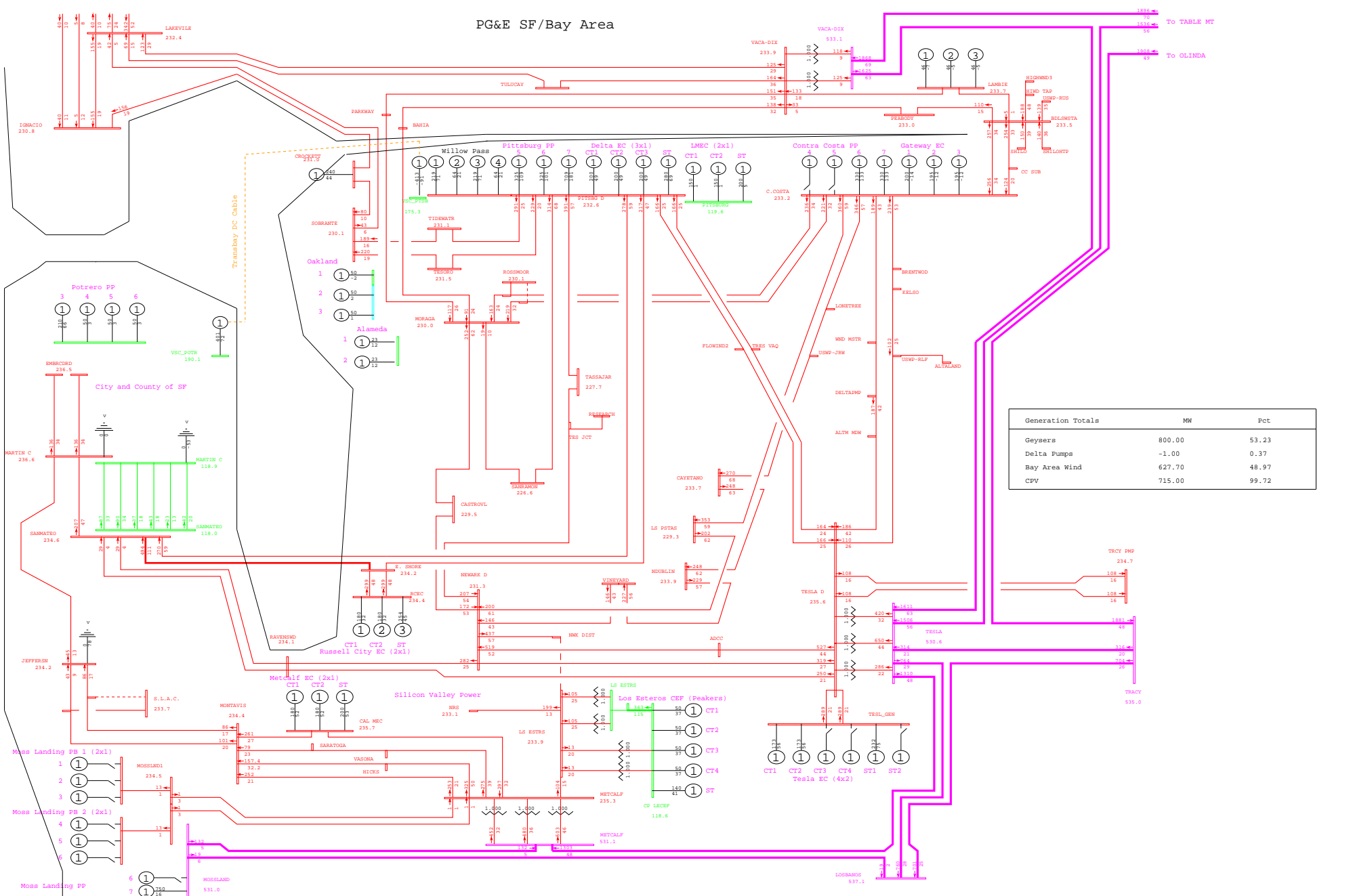
General Electric International, Inc. PSLF Program Fri Sep 26 20:52:39 2008 wlopssv2-2013mrnt_pre_ptsb-337.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 KIPER - FMC 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 337
 MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



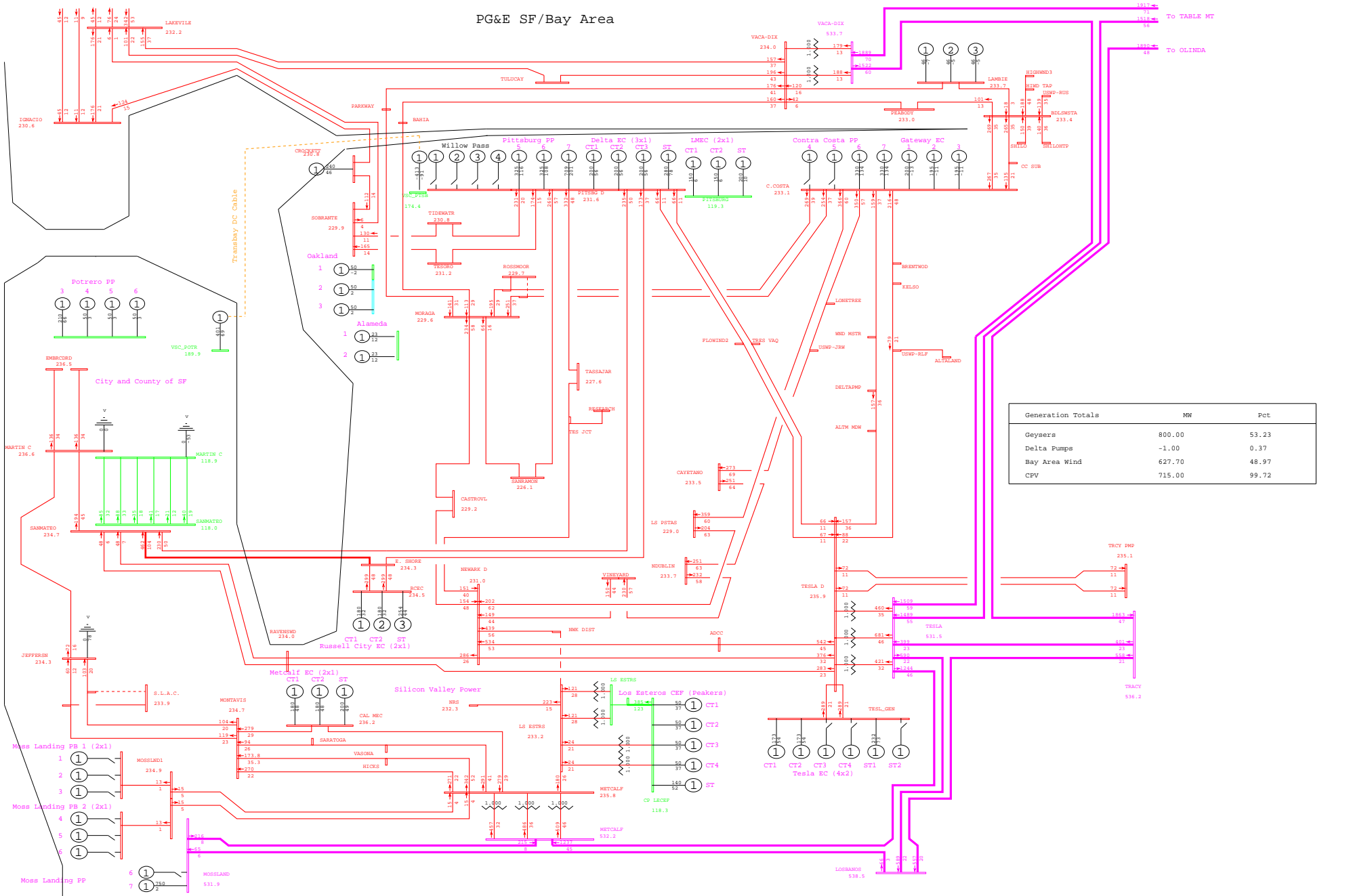
General Electric International, Inc. PSLF Program Fri Sep 26 20:49:29 2008 wlopssv2-2013mrnt_pst_ptsb-337.sav




PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 KIPER - FMC 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 337
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



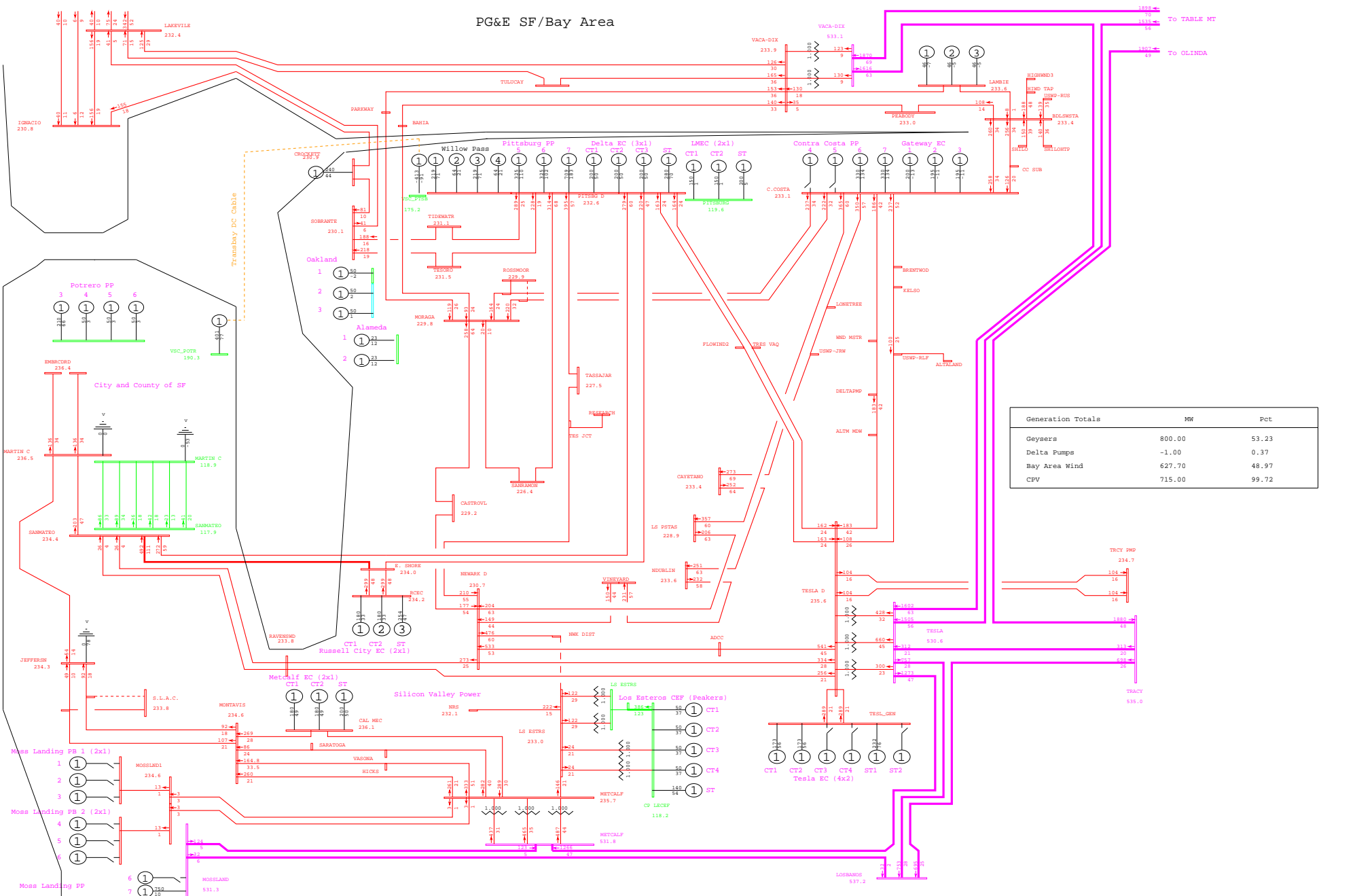
General Electric International, Inc. PSLF Program Fri Sep 26 20:52:40 2008 wlopssv2-2013mrnt_pre_ptsb-340.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 METCALF - EL PATIO(-IBM HR) #1 & #2 LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 340

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:30 2008 wlopssv2-2013mrnt_pst_ptsb-340.sav

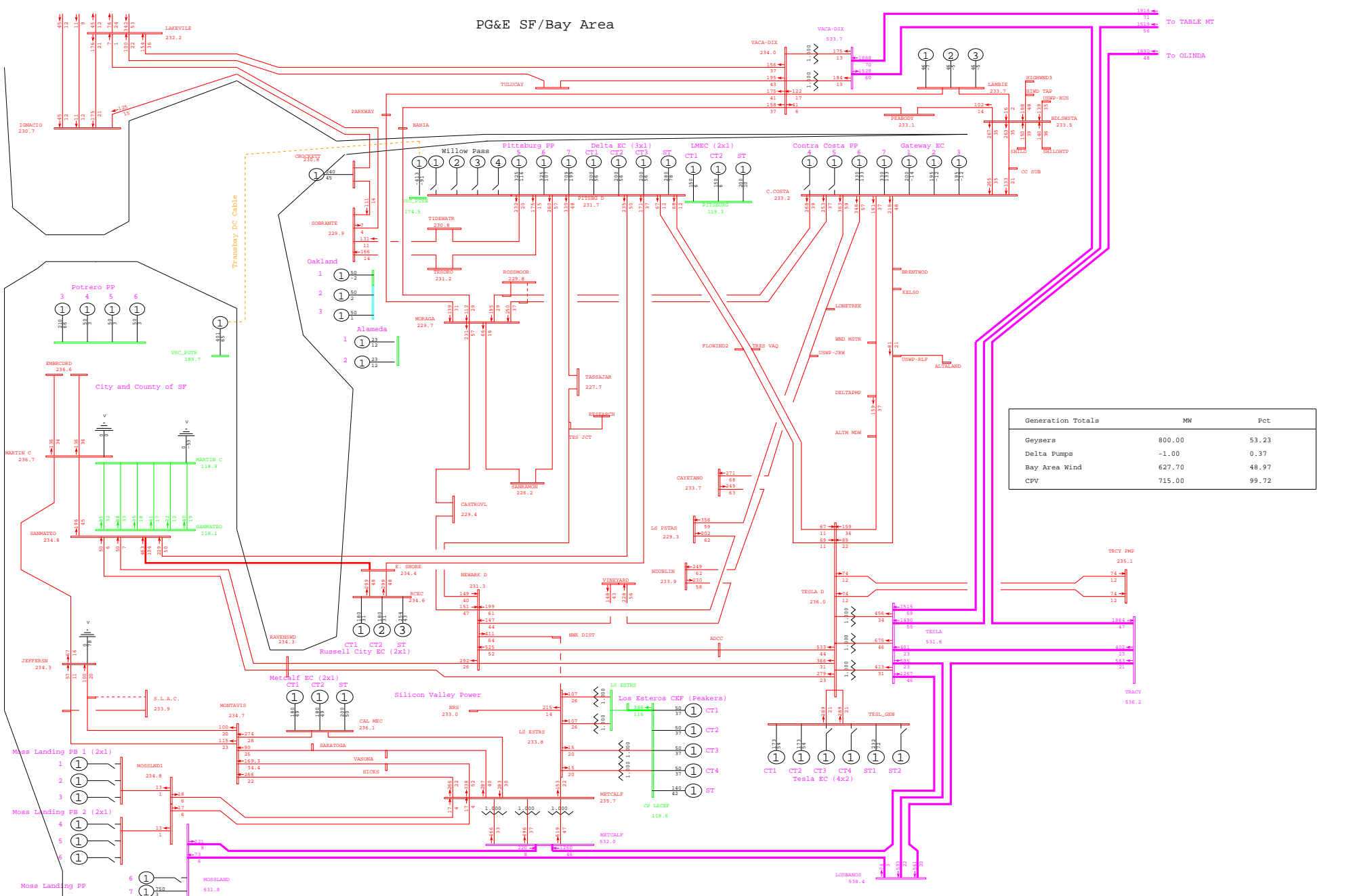


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 METCALF - EL PATIO(-IBM HR) #1 & #2 LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 340

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:41 2008 wlopssv2-2013mrnt_pre_ptsb-341.sav

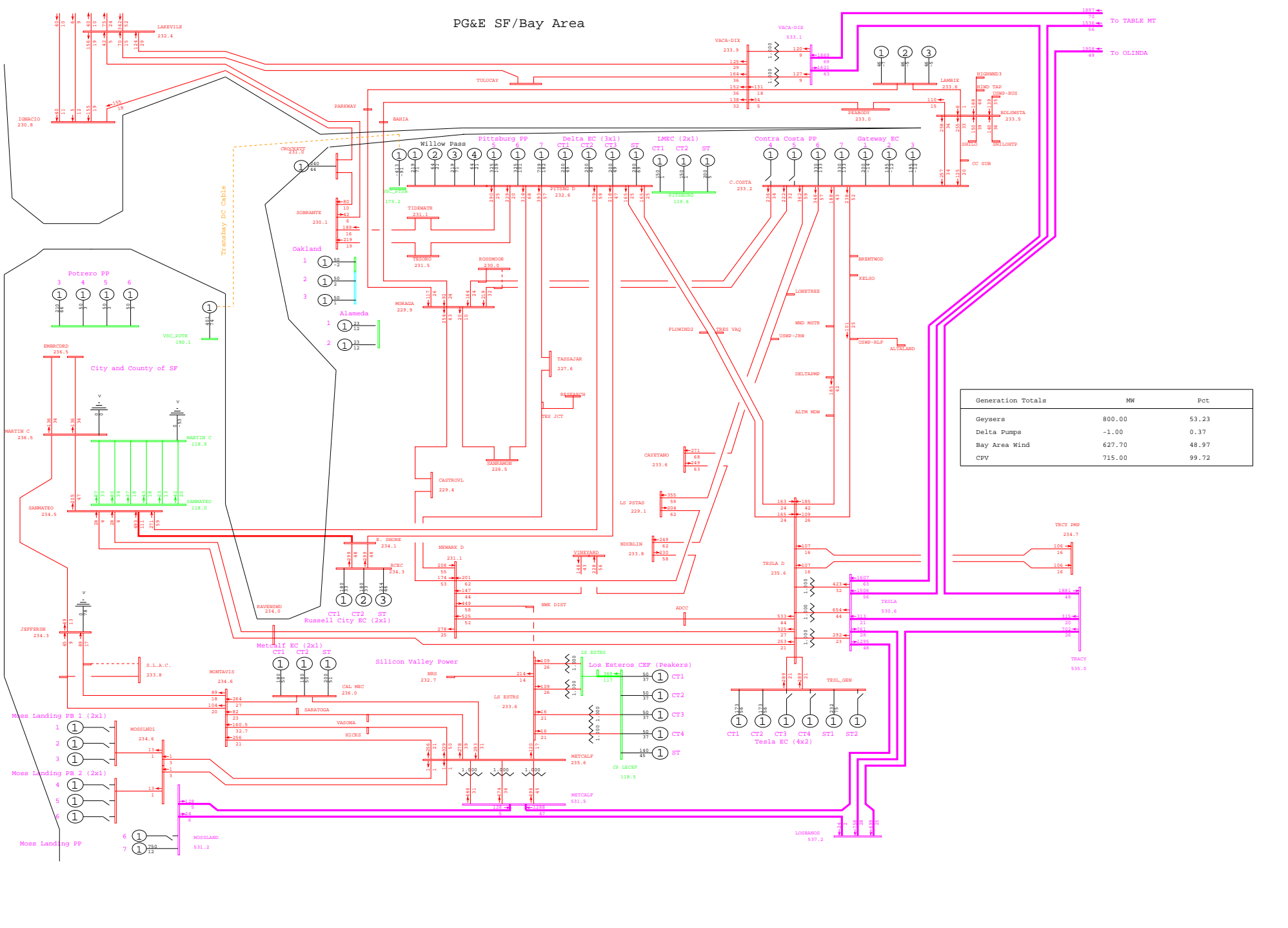


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 METCALF - EL PATIO(-IBM BAILEY) #2 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 341

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:31 2008 wlopssv2-2013mrnt_pst_ptsb-341.sav

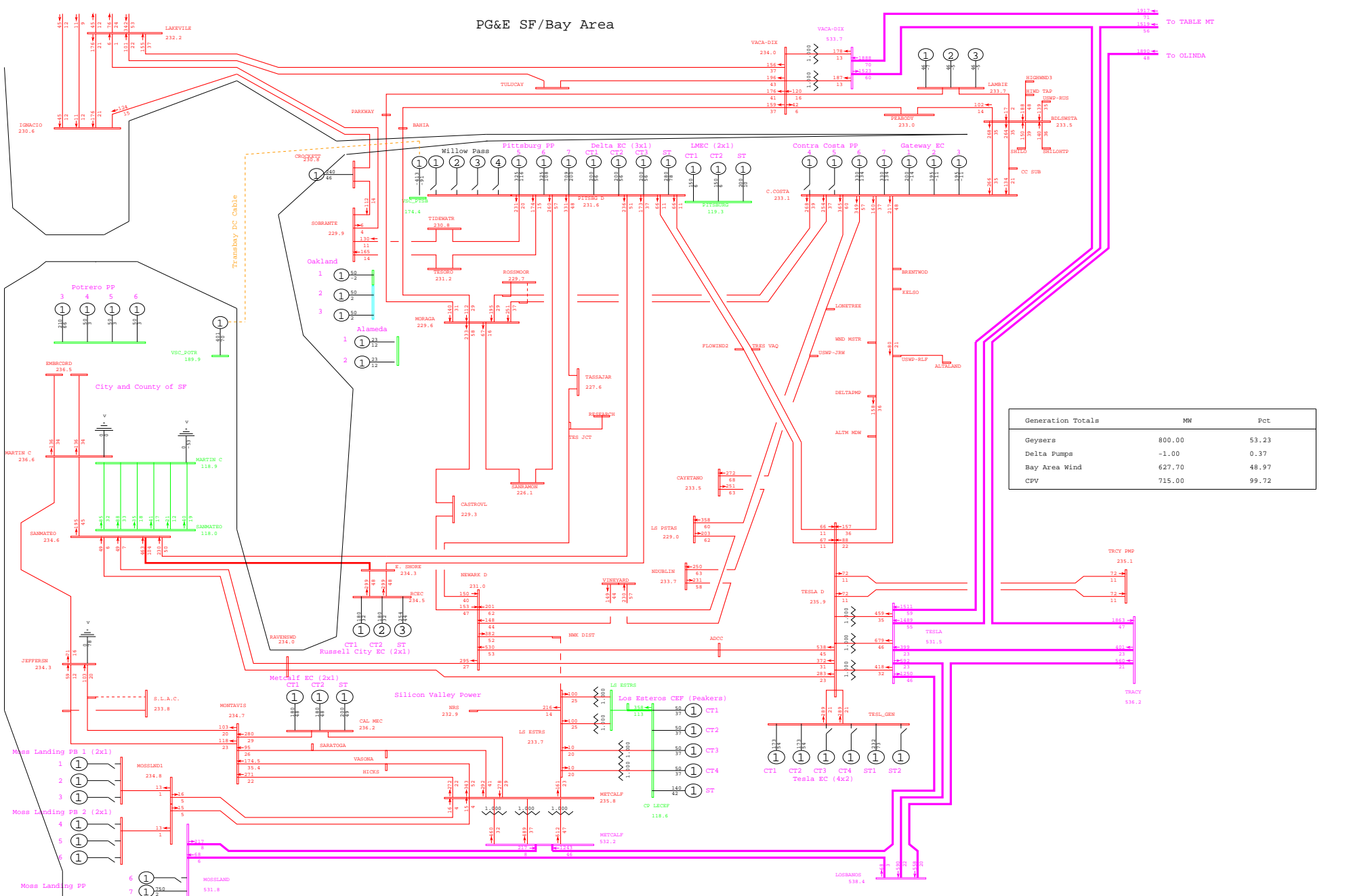


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 METCALF - EL PATIO(-IBM BAILEY) #2 115KV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 341

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:42 2008 wlopssv2-2013mrnt_pre_ptsb-343.sav

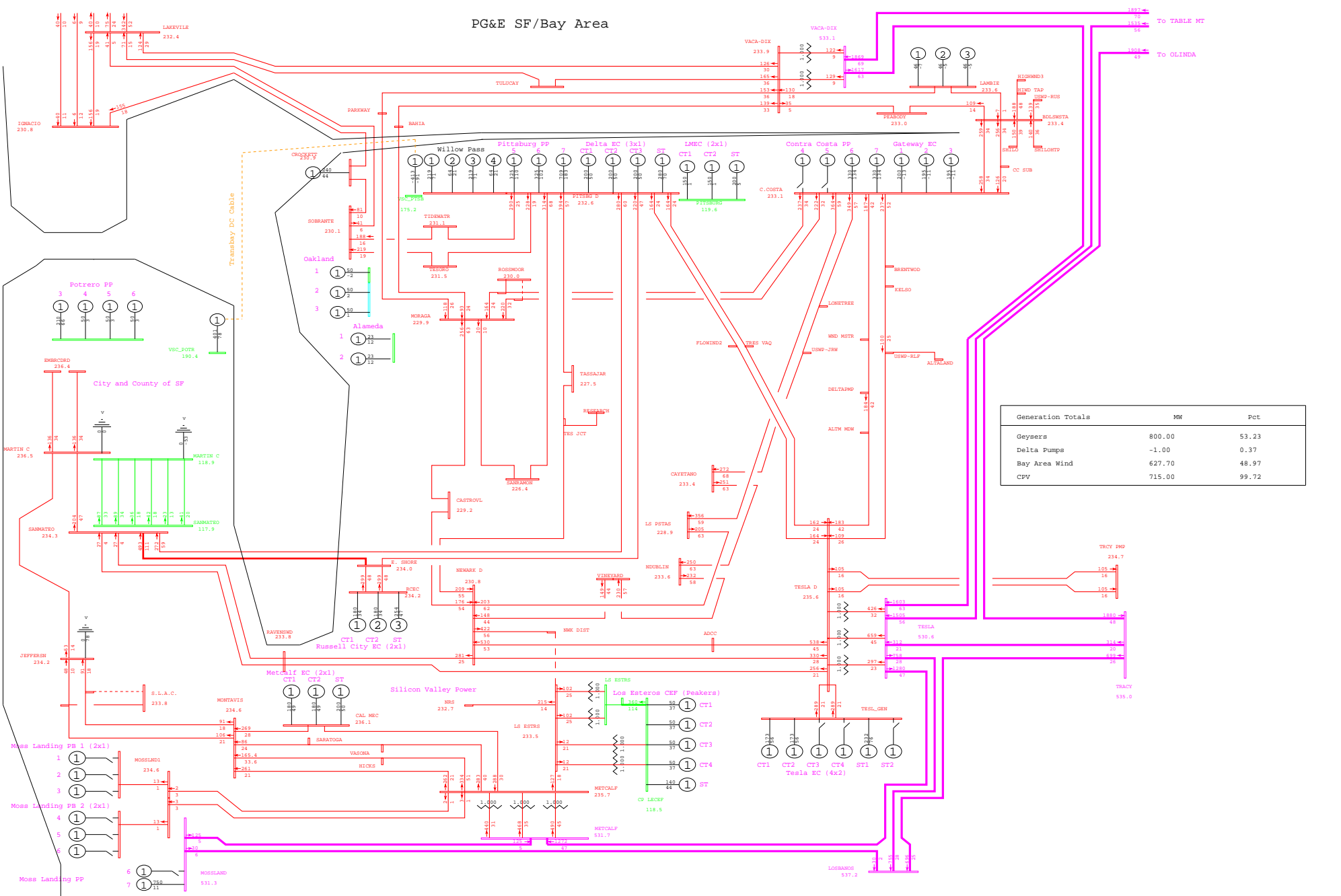


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

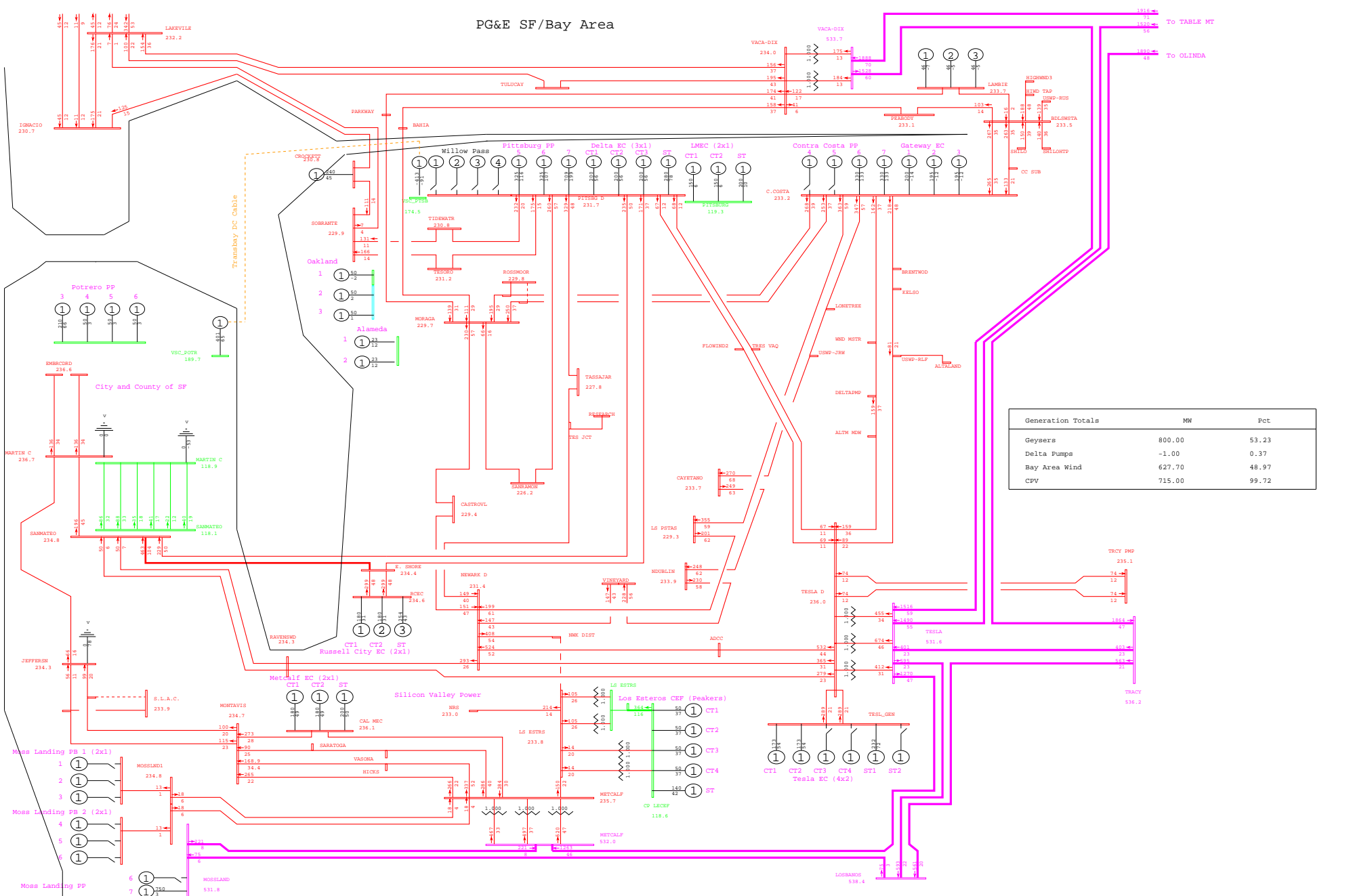
N-1 METCALF E - SWIFT 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 343

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



PG&E SF/Bay Area



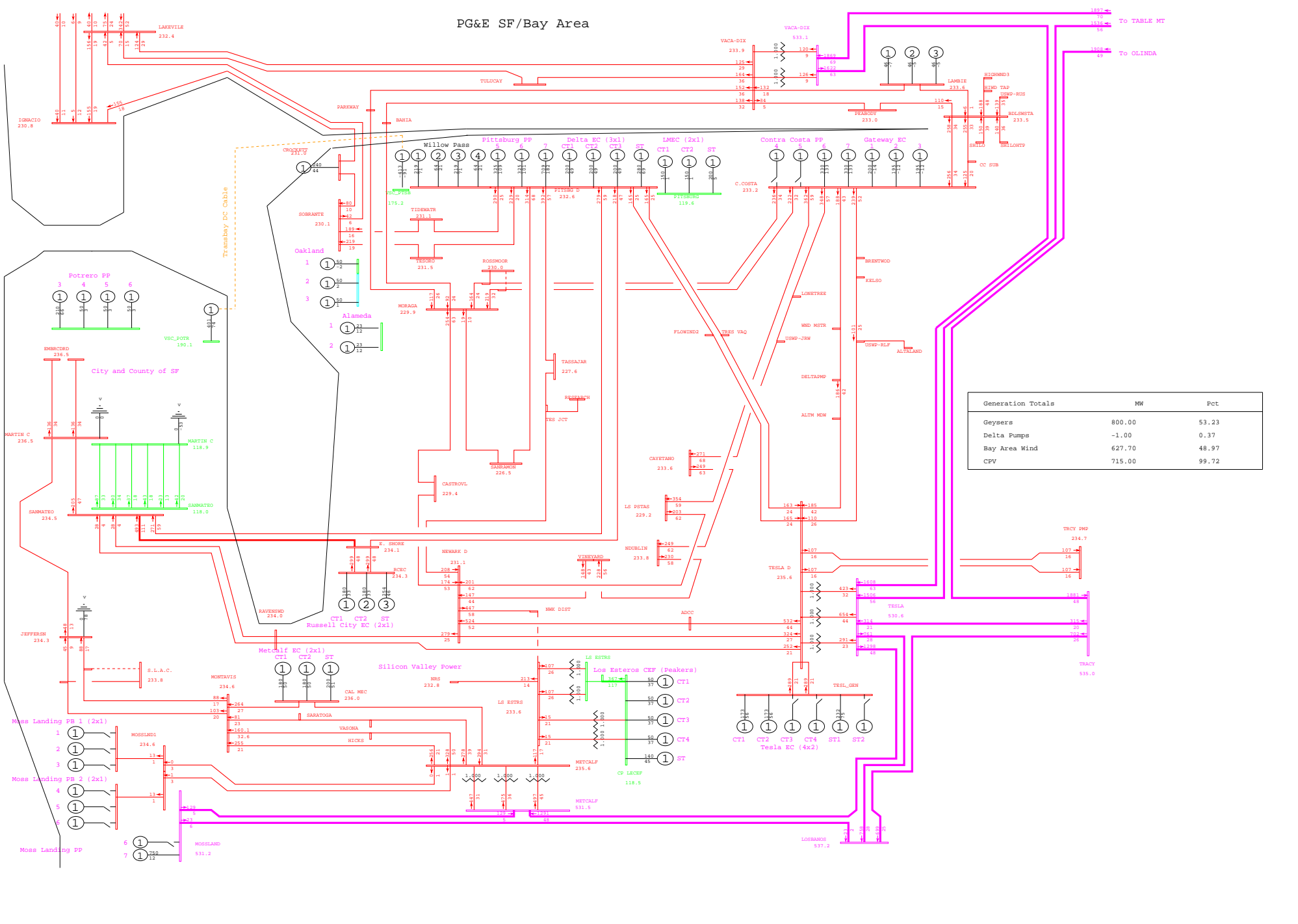
General Electric International, Inc. PSLF Program Fri Sep 26 20:52:42 2008 wlopssv2-2013mrnt_pre_ptsb-346.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 METCALF - EVERGREEN #1 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 346
 MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:32 2008 wlopssv2-2013mrnt_pst_ptsb-346.sav

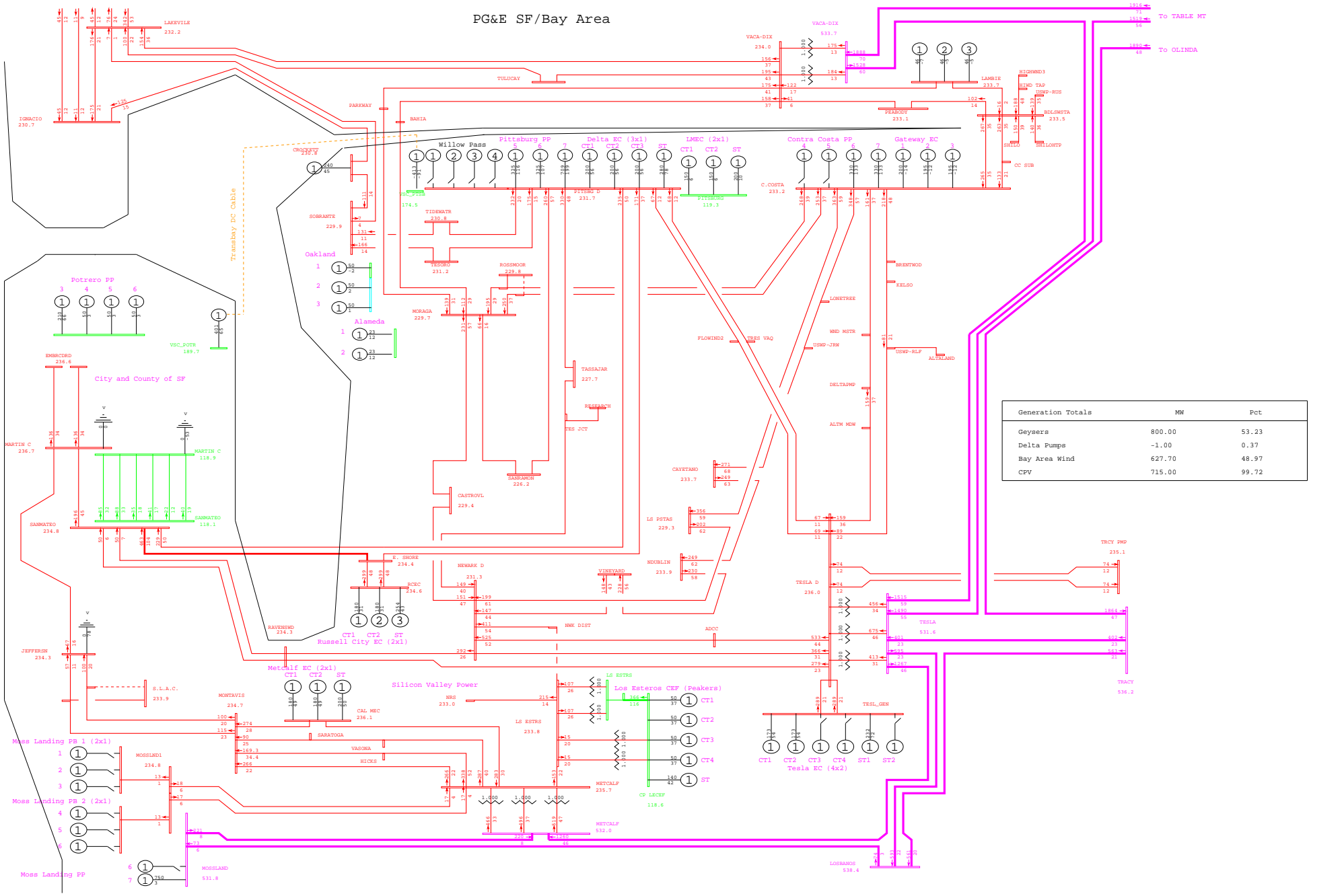


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 METCALF - EVERGREEN #1 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 346

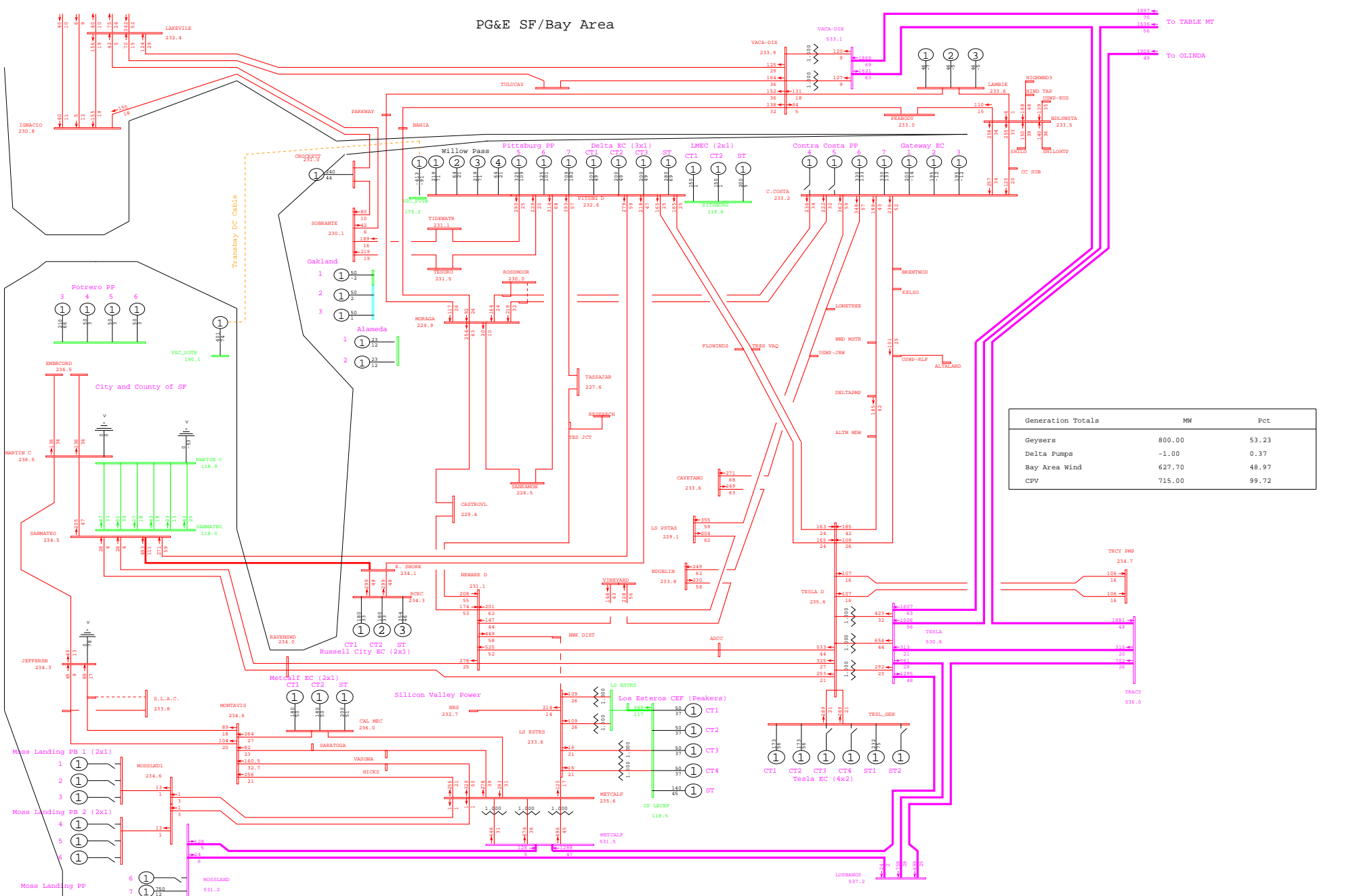
MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area




Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

PG&E SF/Bay Area



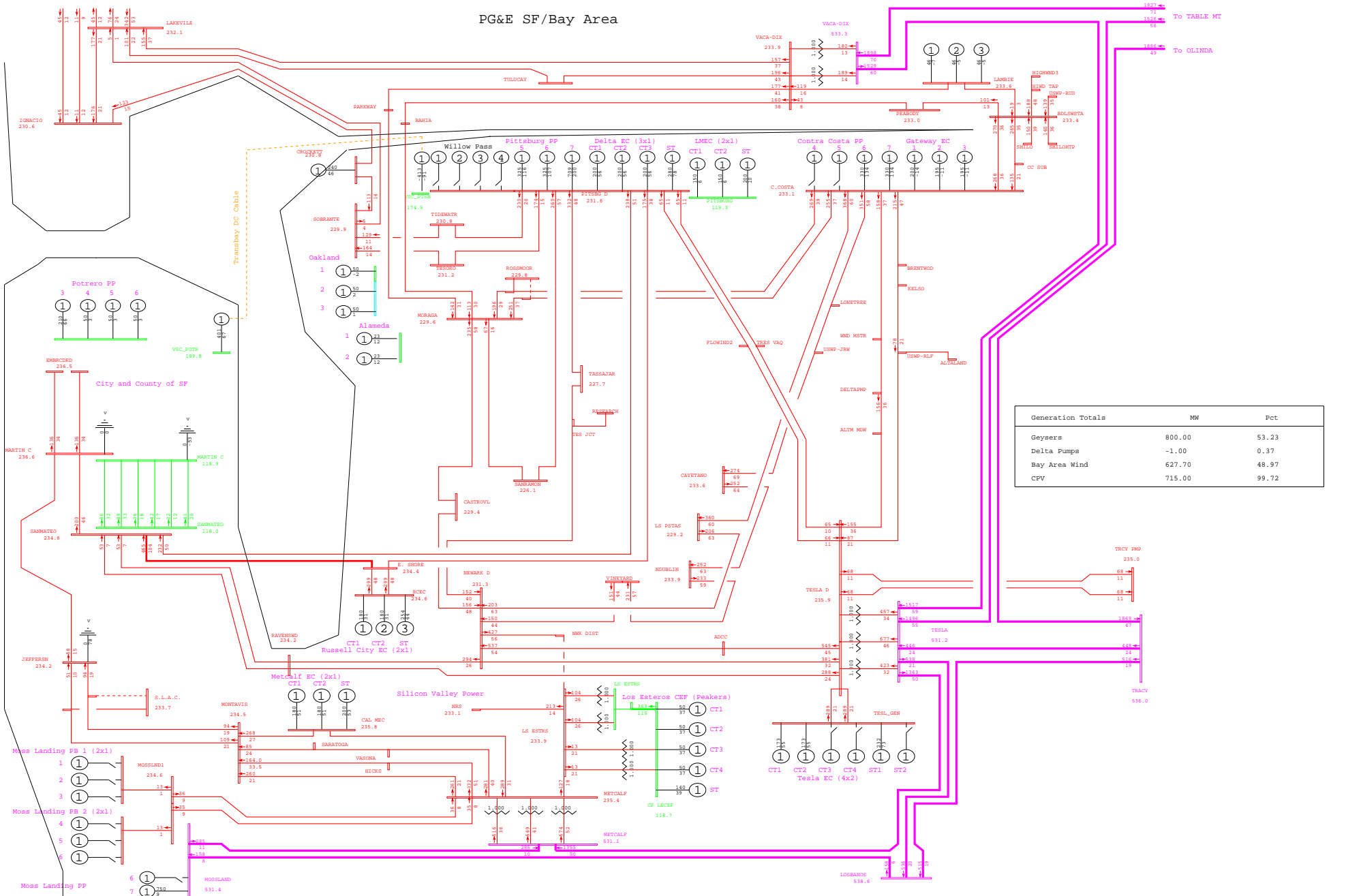
General Electric International, Inc. PSLF Program Fri Sep 26 20:49:33 2008 wlopssv2-2013mrnt_pst_ptsb-349.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

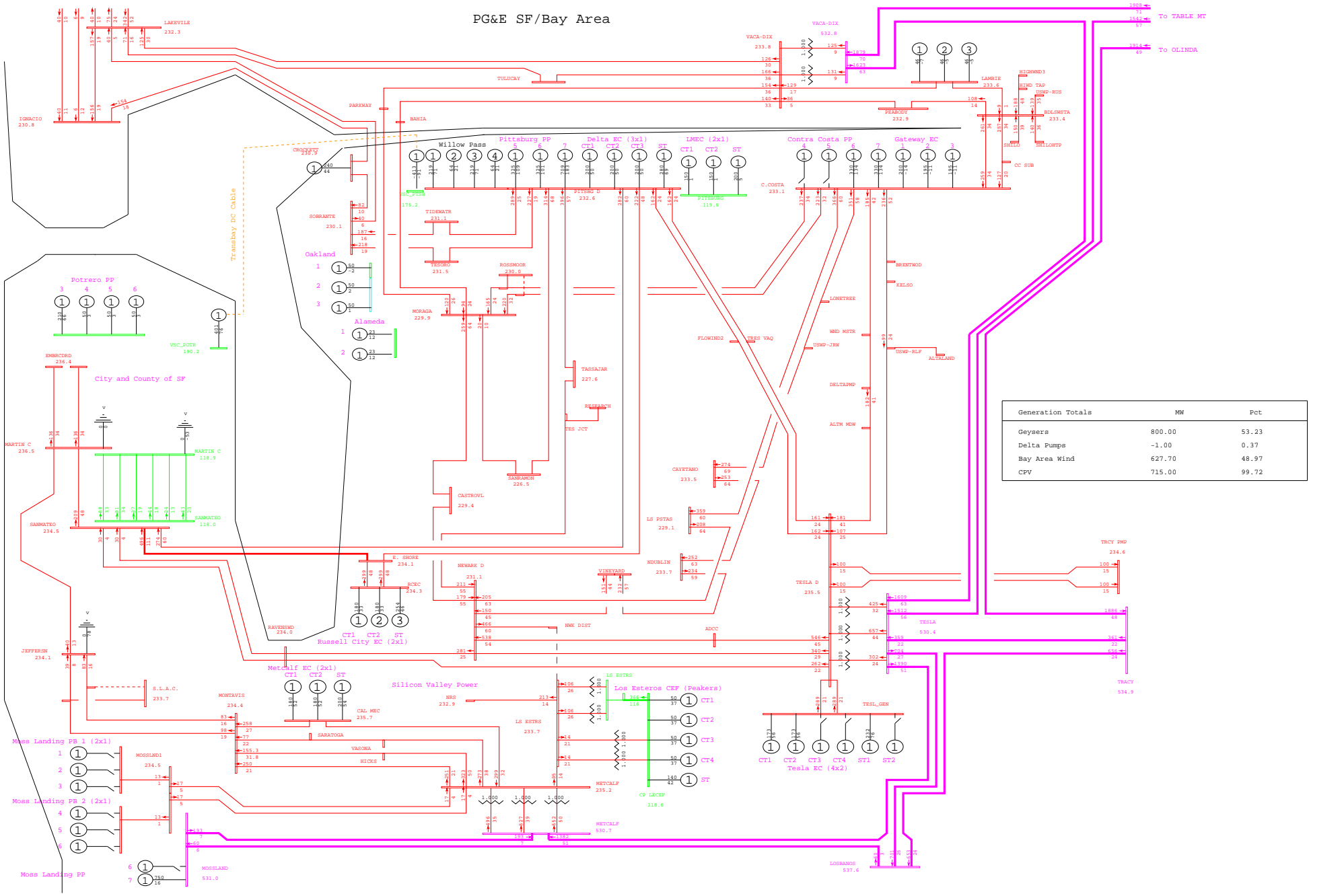
N-1 METCALF - EL PATIO(-IBM HR) #1 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 349

MW/% rate
 bayarea_2013_PGE_v4.drw
 Rating = 2

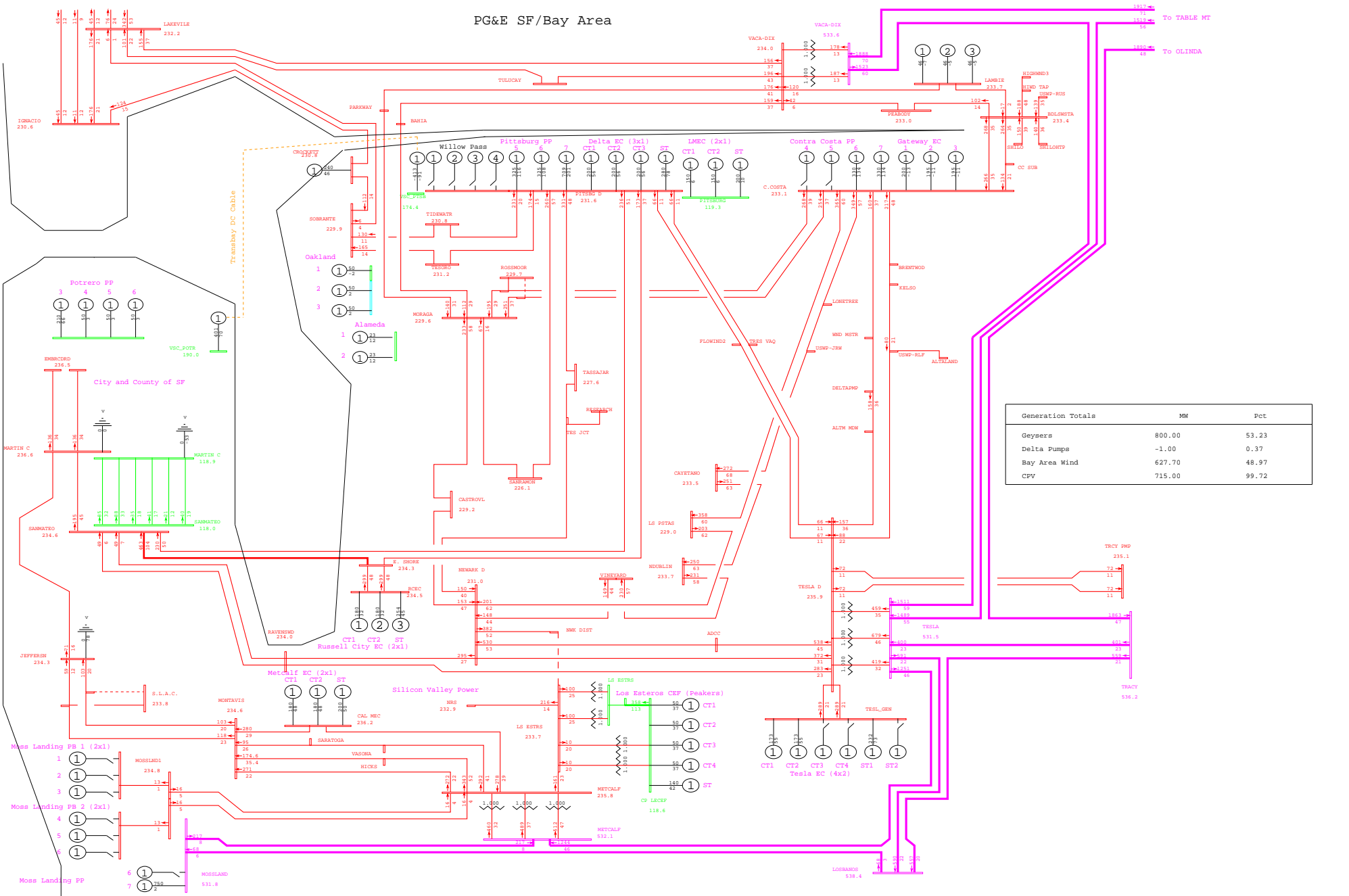
PG&E SF/Bay Area



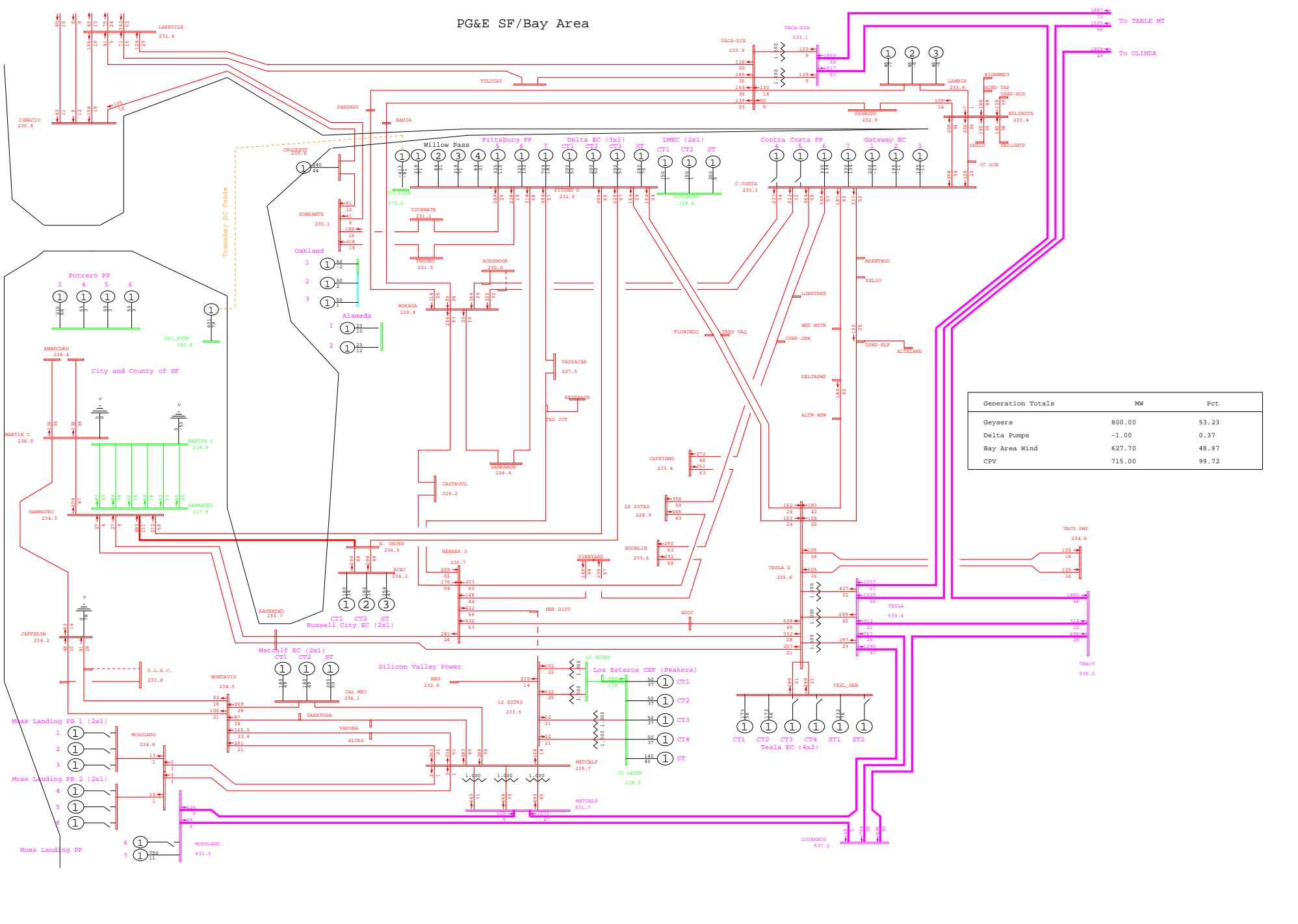
PG&E SF/Bay Area



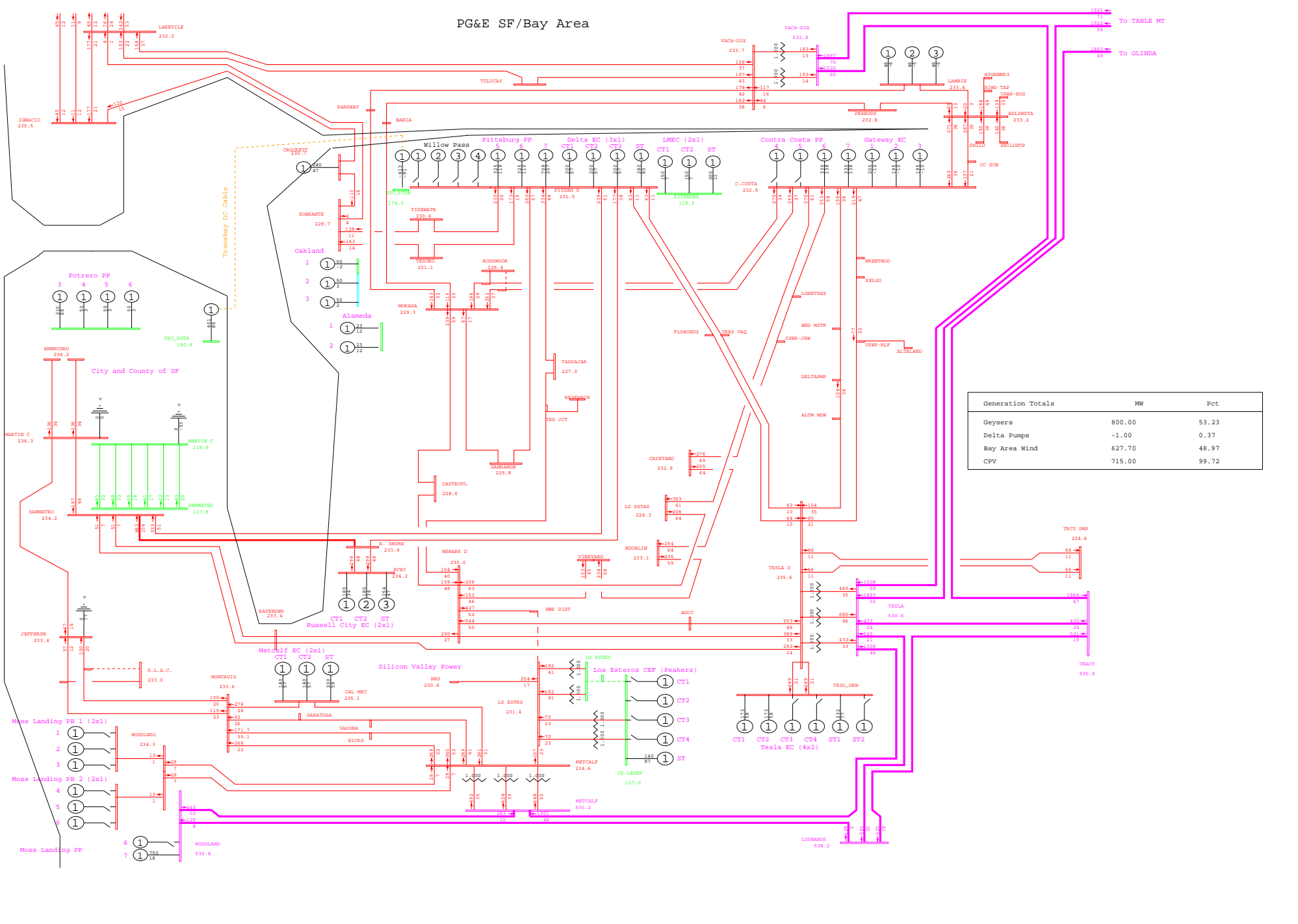
PG&E SF/Bay Area



PG&E SF/Bay Area



PG&E SF/Bay Area



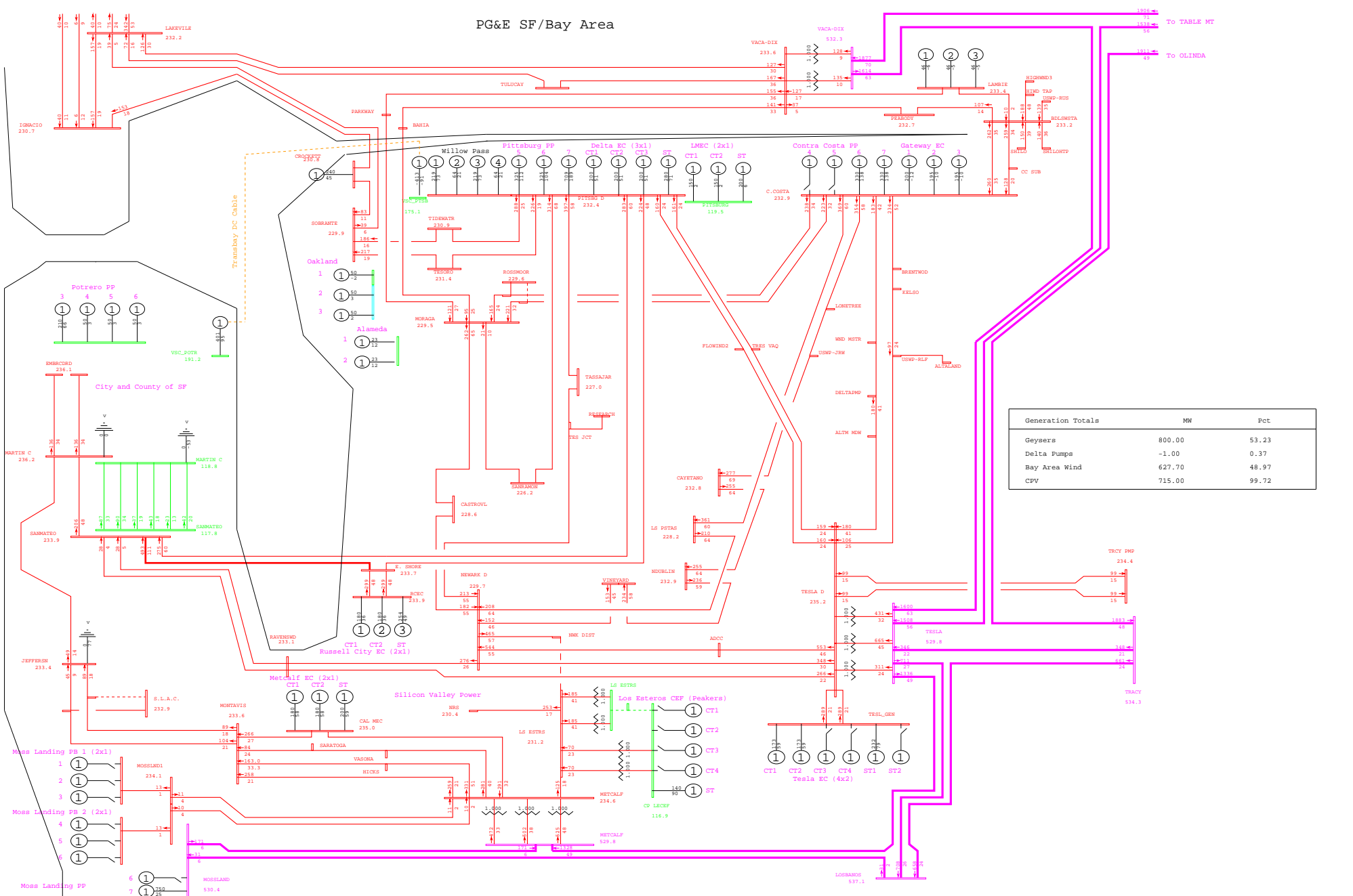
General Electric International, Inc. PSLF Program Fri Sep 26 20:52:46 2008 wlopssv2-2013mrnt_pre_ptsb-359.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 NORTECH - CP LECEP 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 359
 MW/% rate
 bayarea_2013_PGE_v4.0r.w
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:36 2008 wlopssv2-2013mrnt_pst_ptsb-359.sav

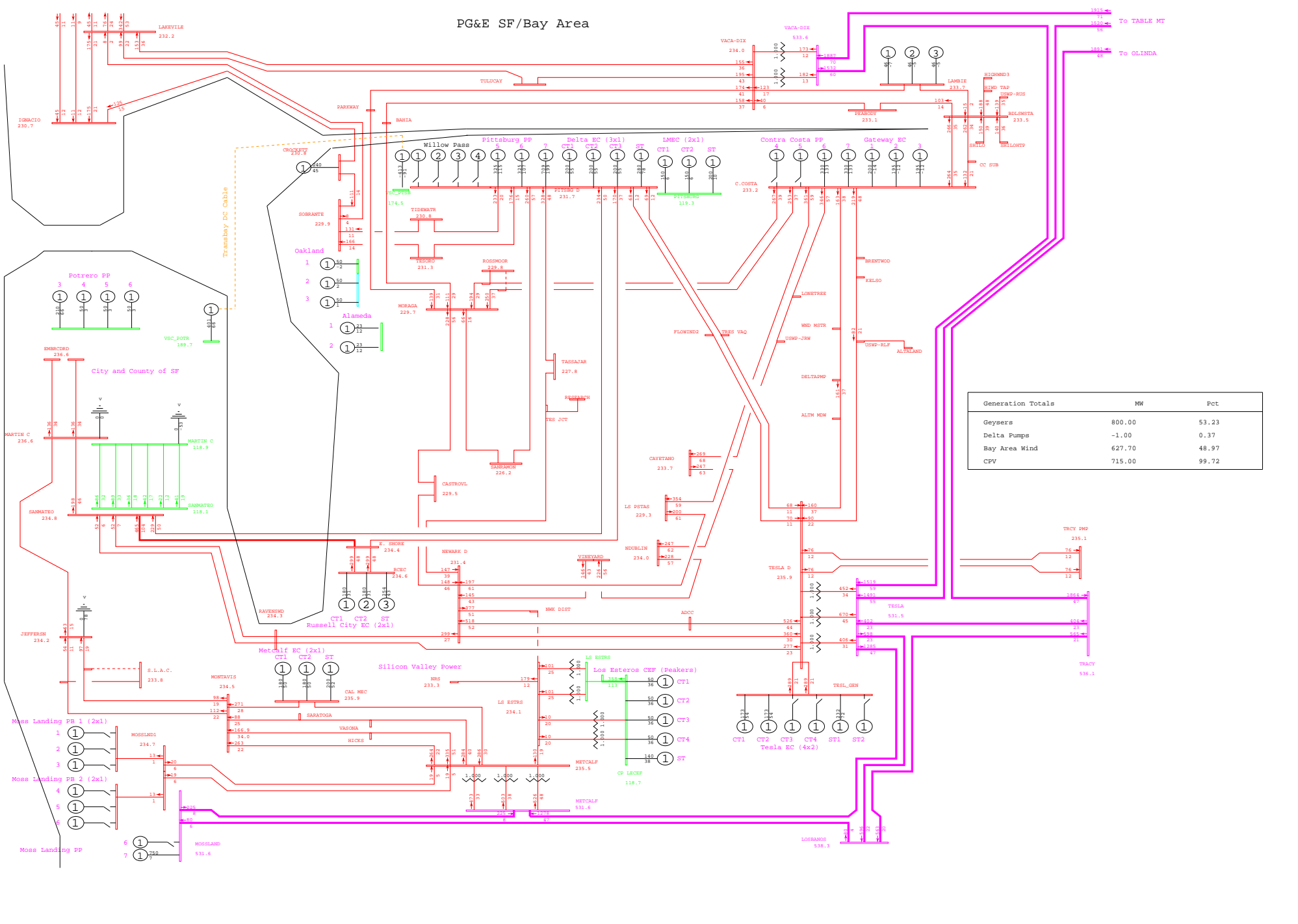


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 NORTECH - CP LECEF 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 359

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:47 2008 wlopssv2-2013mrnt_pre_ptsb-361.sav

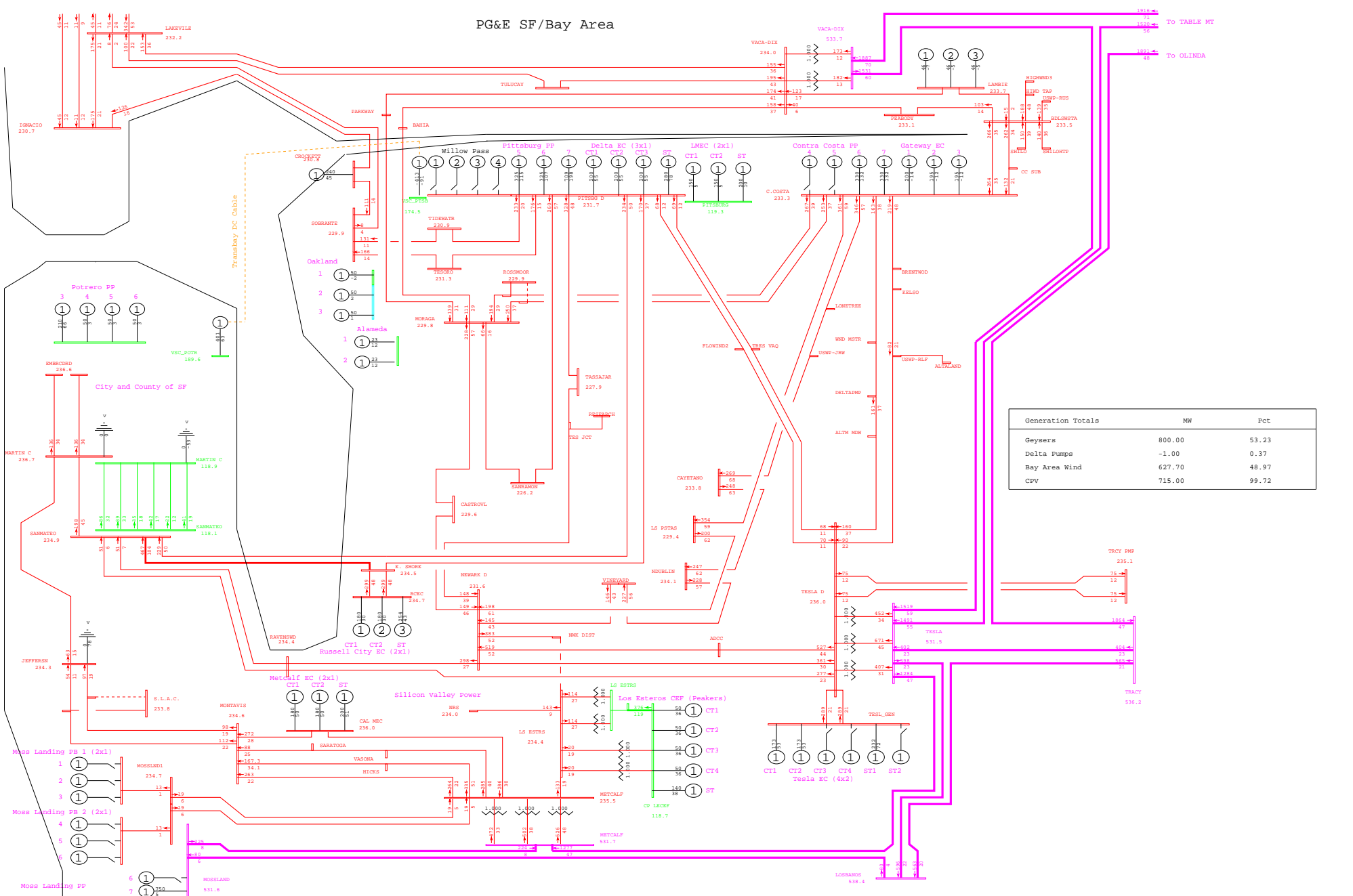


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 CSC KIFER - DVR PP 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 361

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



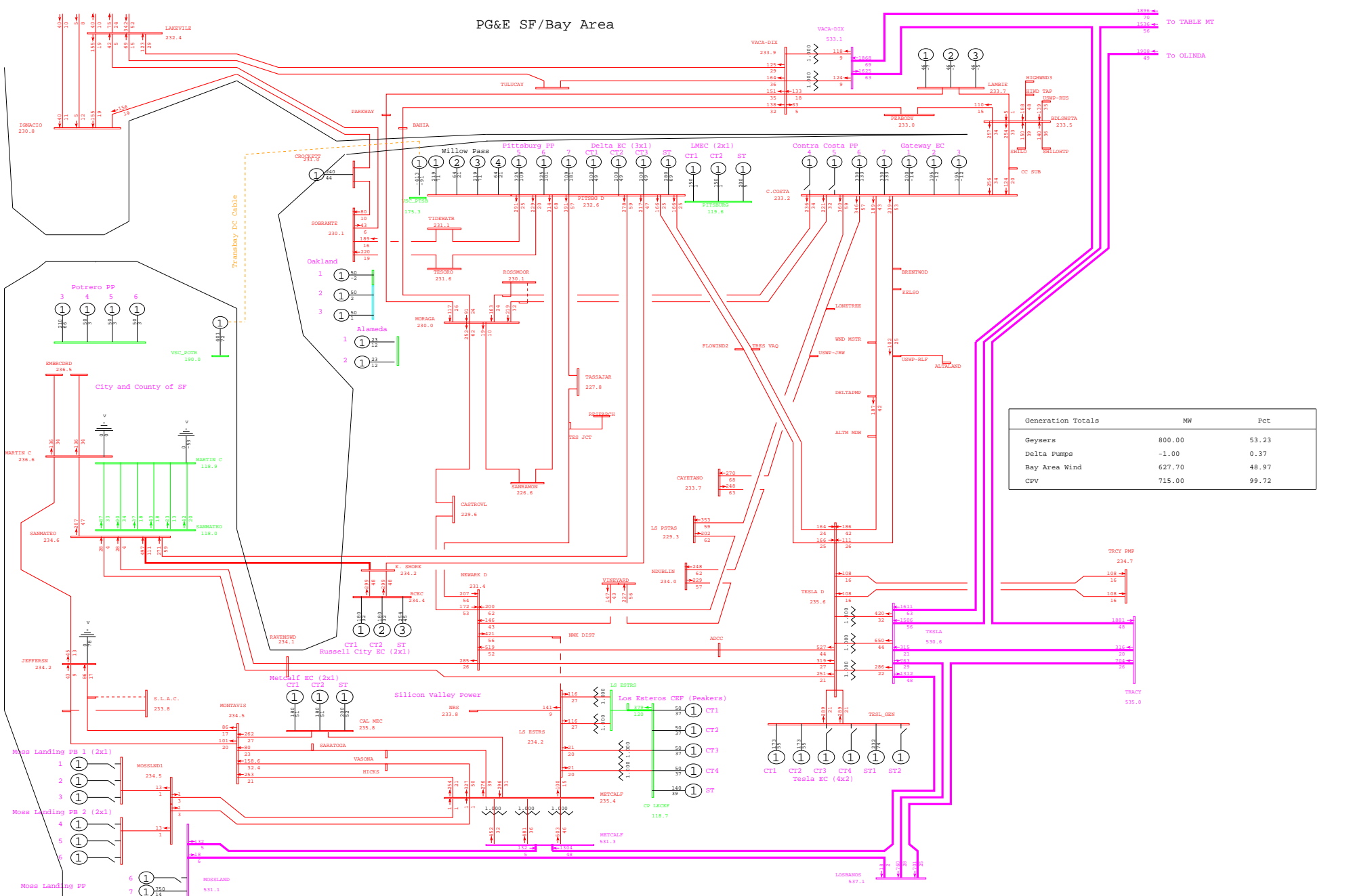
General Electric International, Inc. PSLF Program Fri Sep 26 20:52:49 2008 wlopssv2-2013mrnt_pre_ptsb-362.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 CSC NORTHERN - SCOTT #1 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 362
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:38 2008 wlopssv2-2013mrnt_pst_ptsb-362.sav

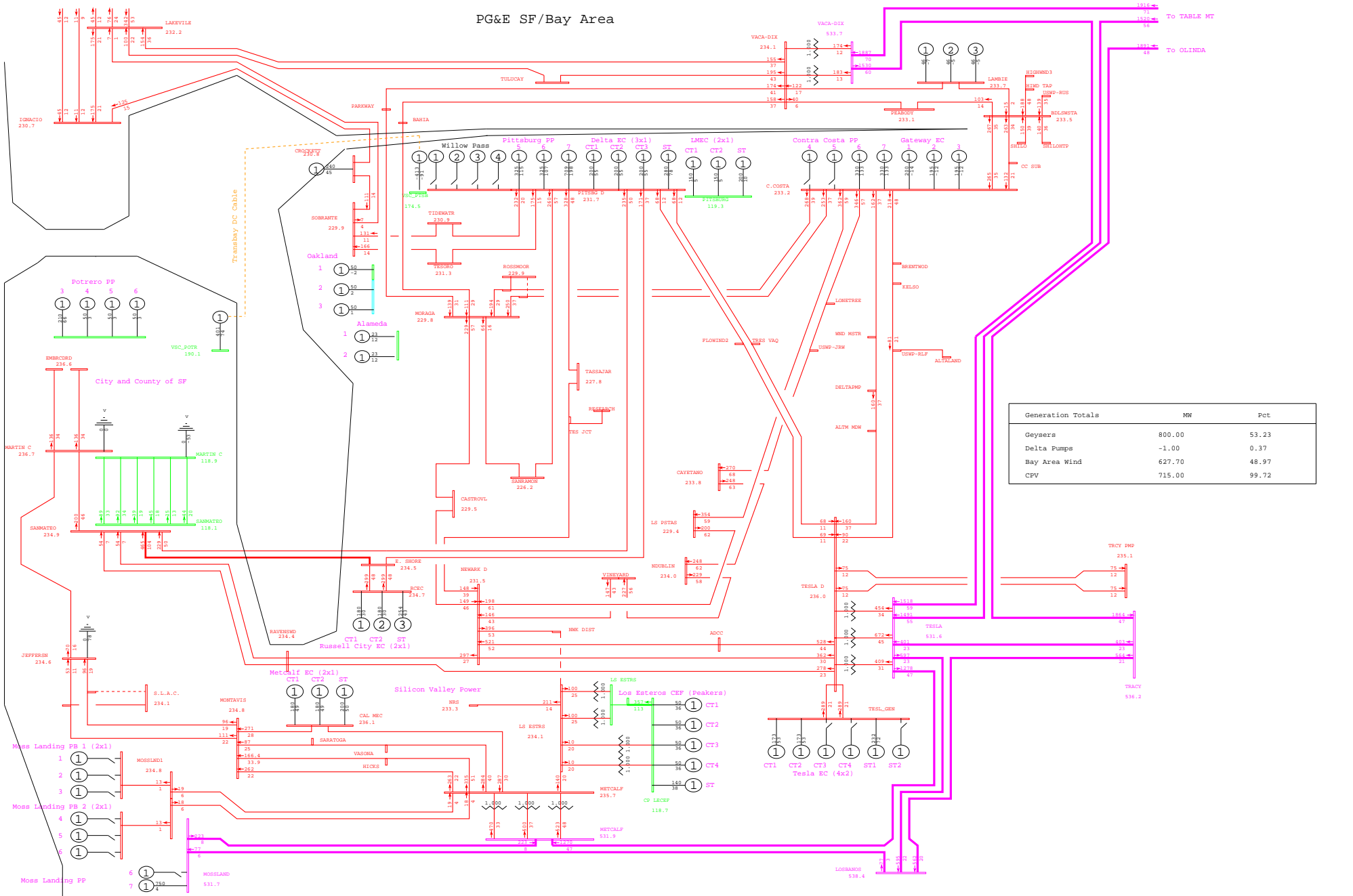


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-1 CSC NORTHERN - SCOTT #1 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 362

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:50 2008 wlopssv2-2013mrnt_pre_ptsb-379.sav

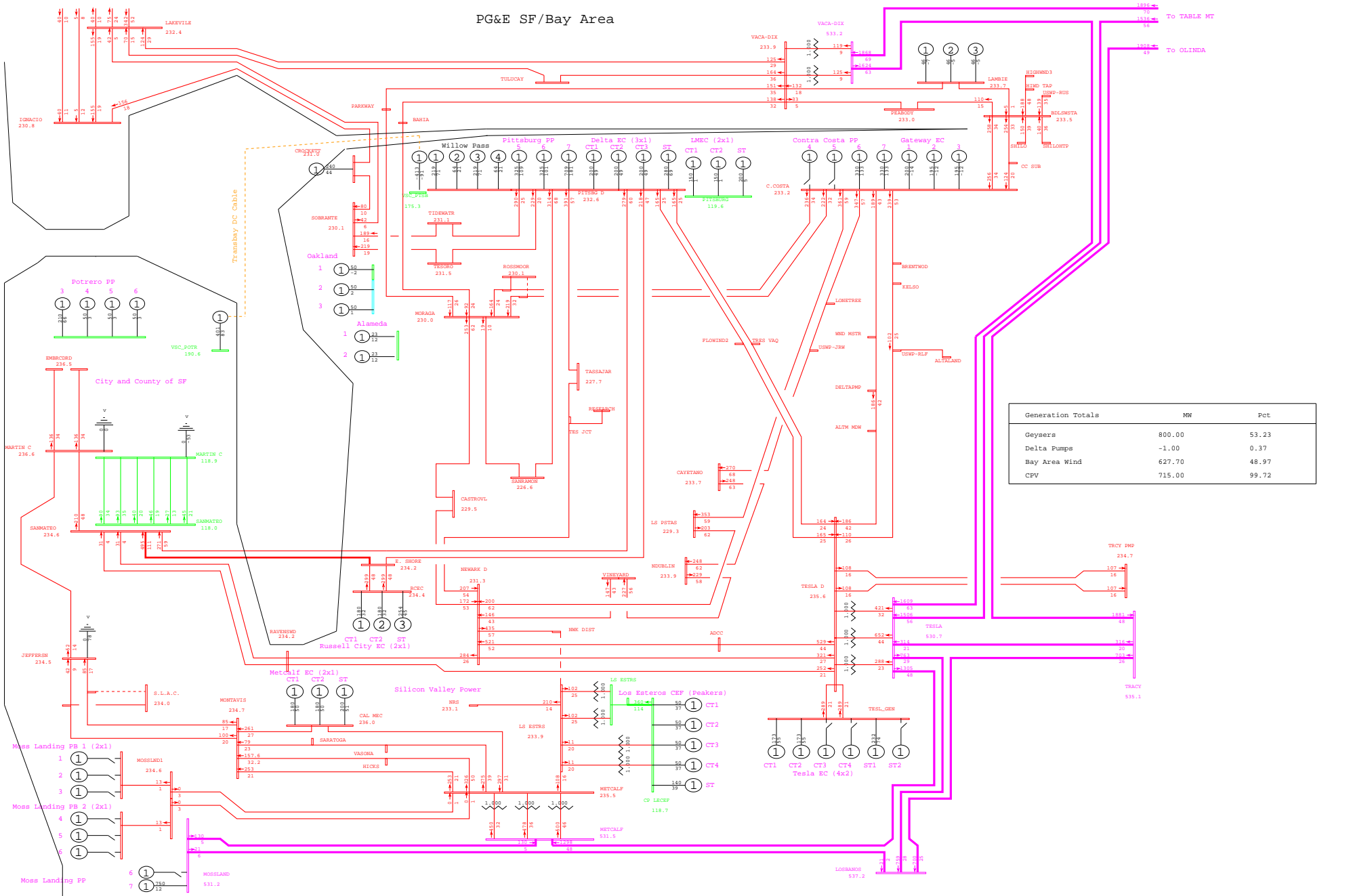


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-1 HALF MOON BAY - HILLSDALE JCT 60kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 379

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area

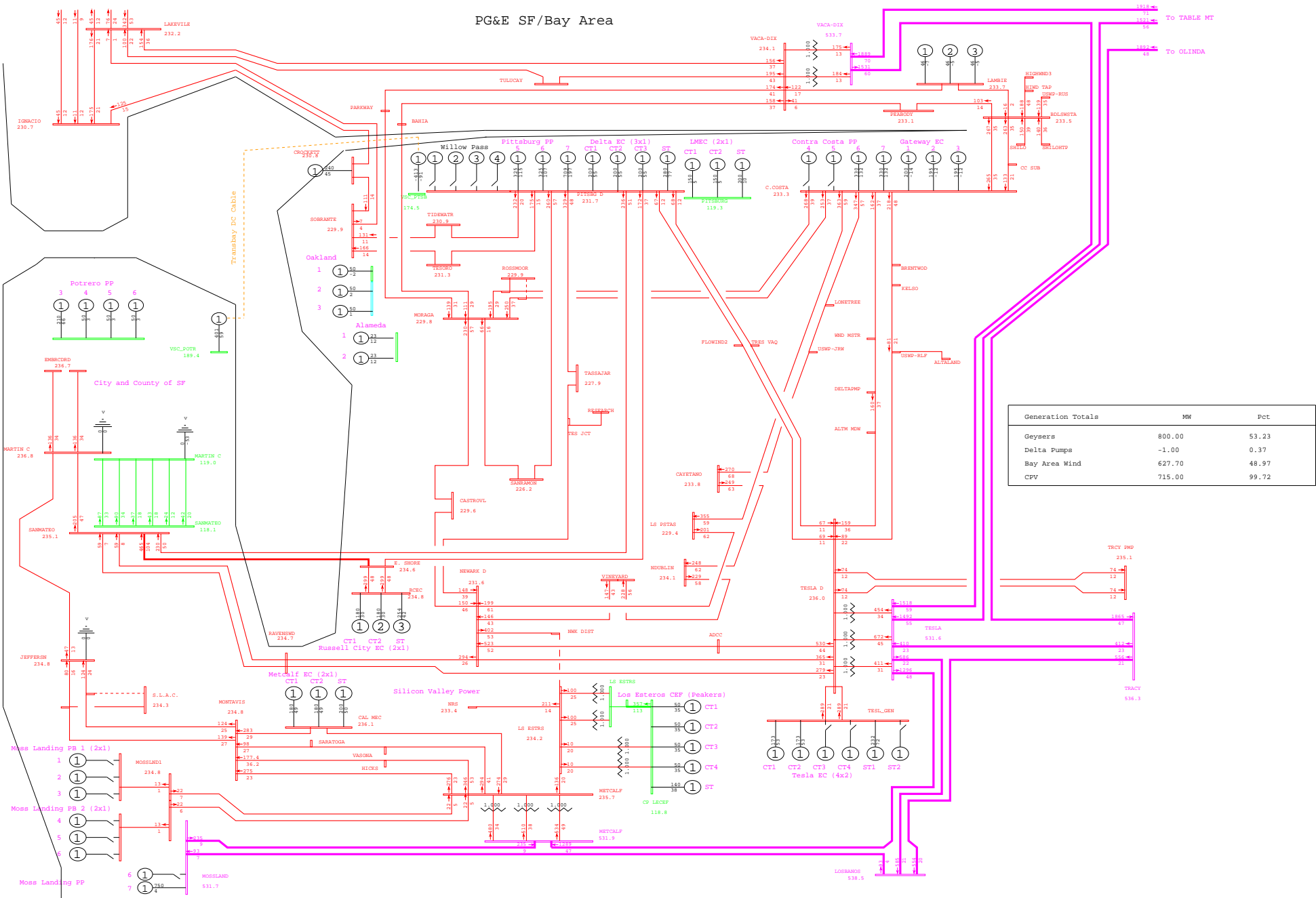


General Electric International, Inc. PSLF Program Fri Sep 26 20:49:39 2008 wlopssv2-2013mrnt_pst_ptsb-379.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 HALF MOON BAY - HILLSDALE JCT 60kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 379
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:51 2008 wlopssv2-2013mrnt_pre_ptsb-384.sav

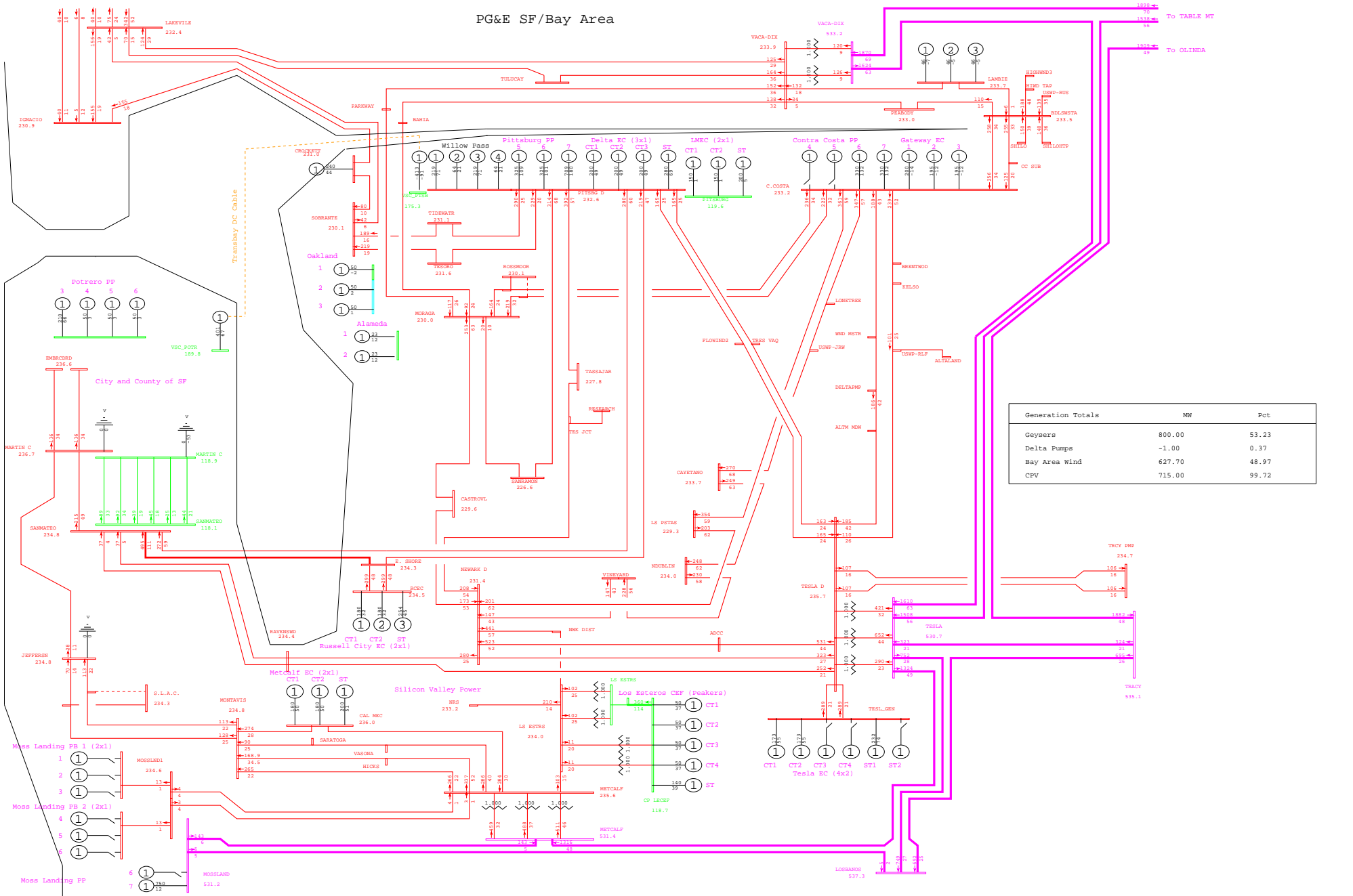


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-1 COOLEY LANDING - STANFORD 60kV LINE (CLY LNDG-SRI)
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 384

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:39 2008 wlopssv2-2013mrnt_pst_ptsb-384.sav

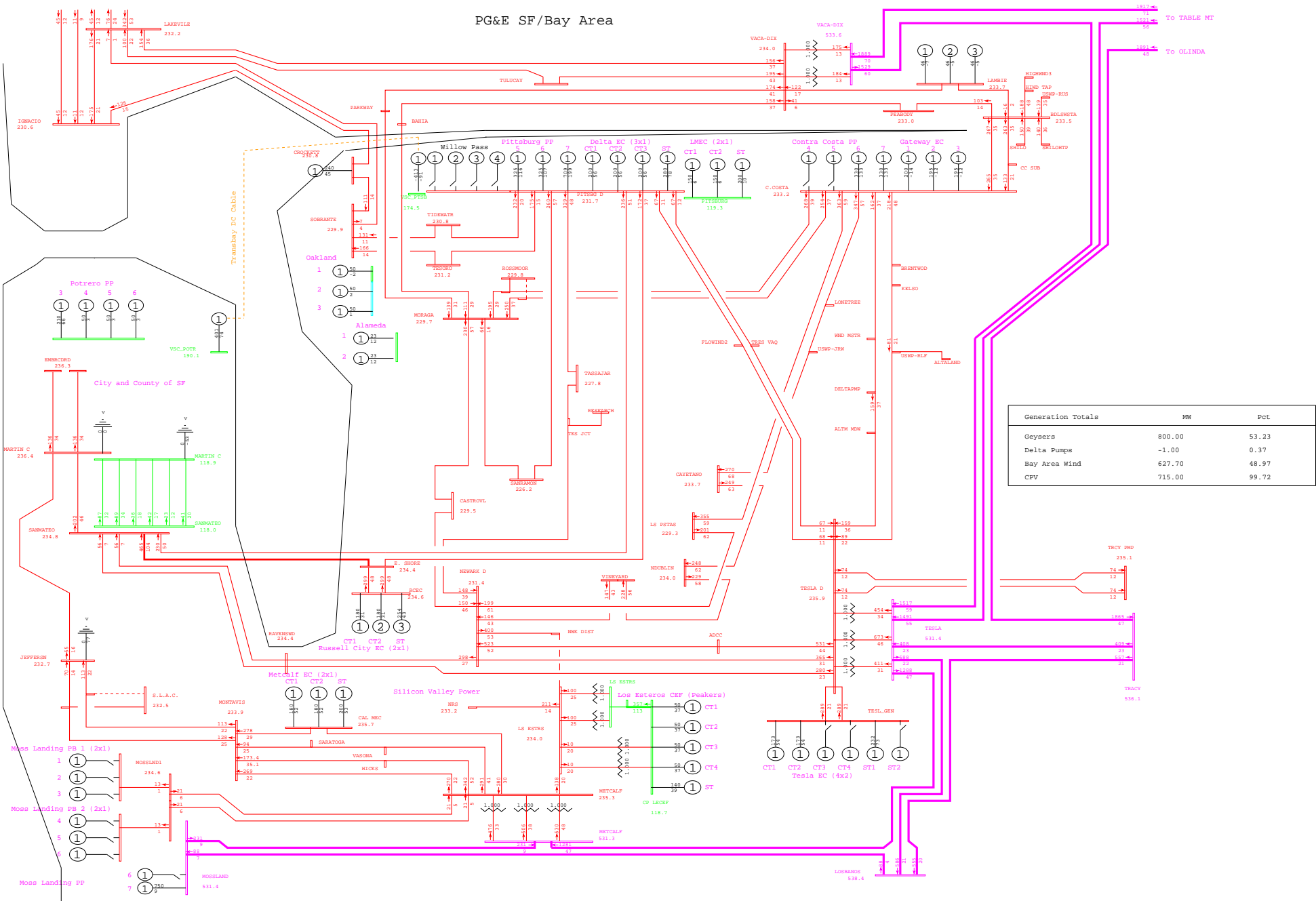


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

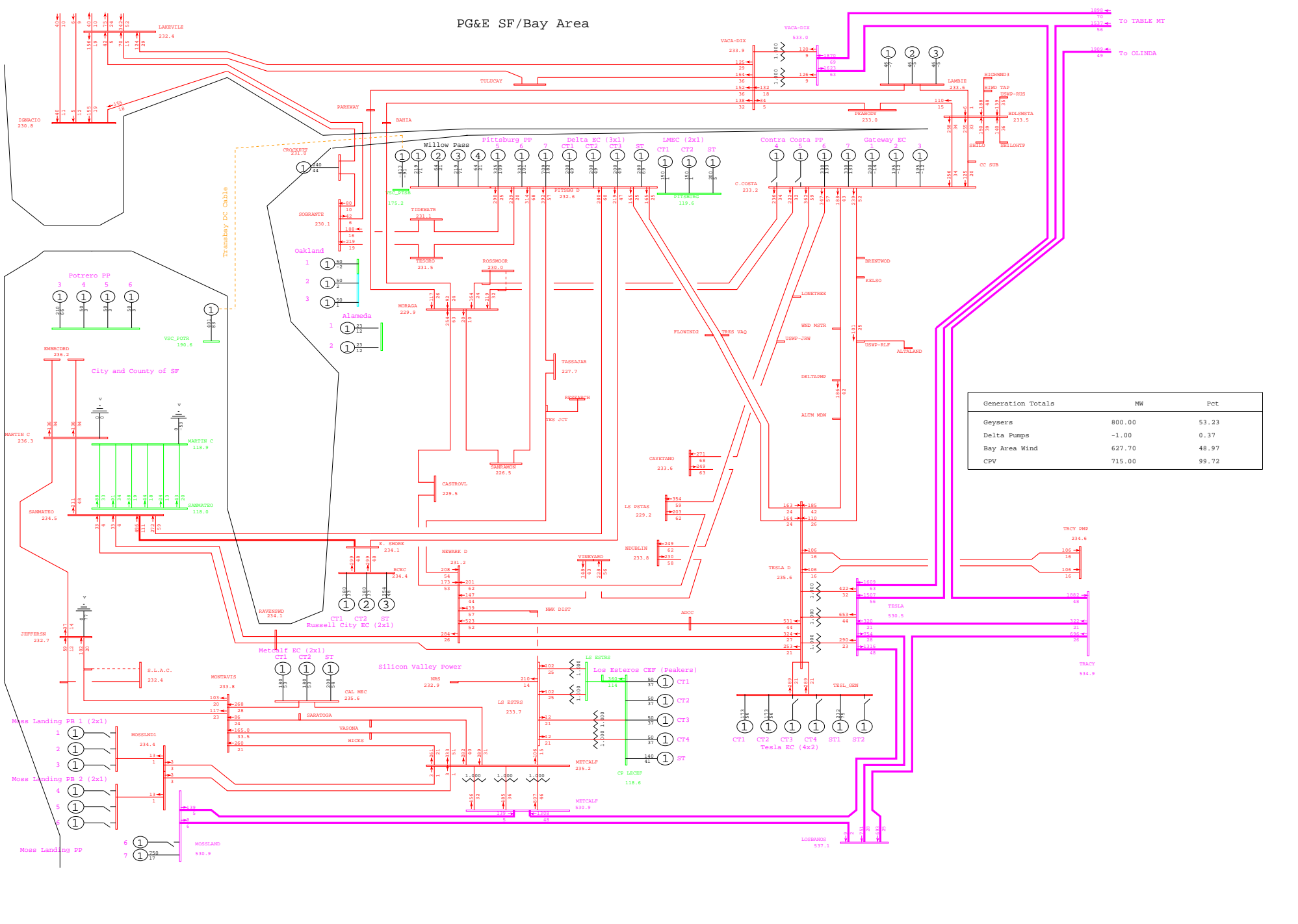
N-1 COOLEY LANDING - STANDFORD 60kV LINE (CLY LNDG-SRI)
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 384

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2


PG&E SF/Bay Area



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:40 2008 wlopssv2-2013mrnt_pst_ptsb-389.sav

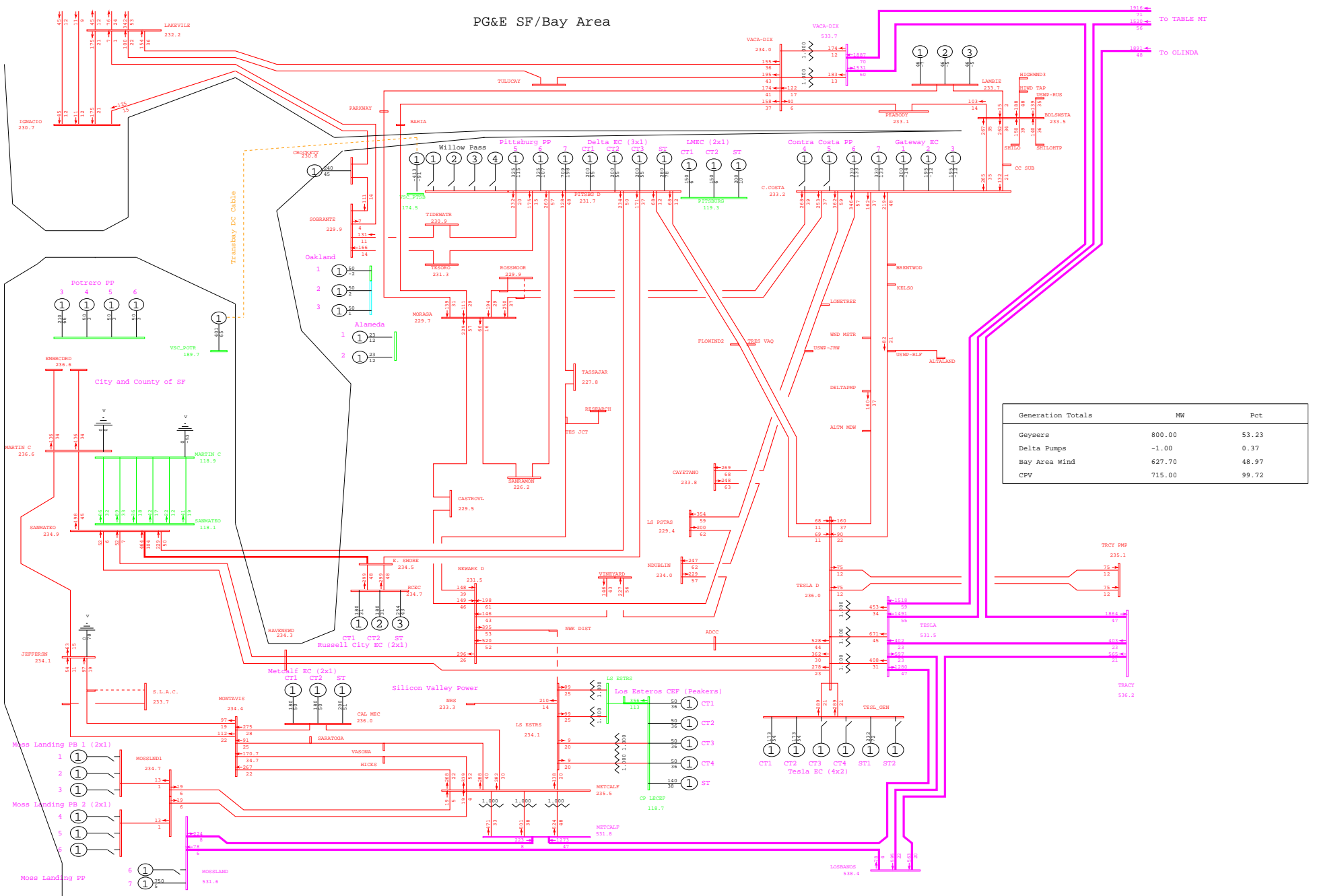


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 COOLEY LANDING - STANDFORD 60kV LINE (SRI-MENLO)
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 389

MW/% rate
 bayarea_2013_PGE_v4.0.rtf
 Rating = 2

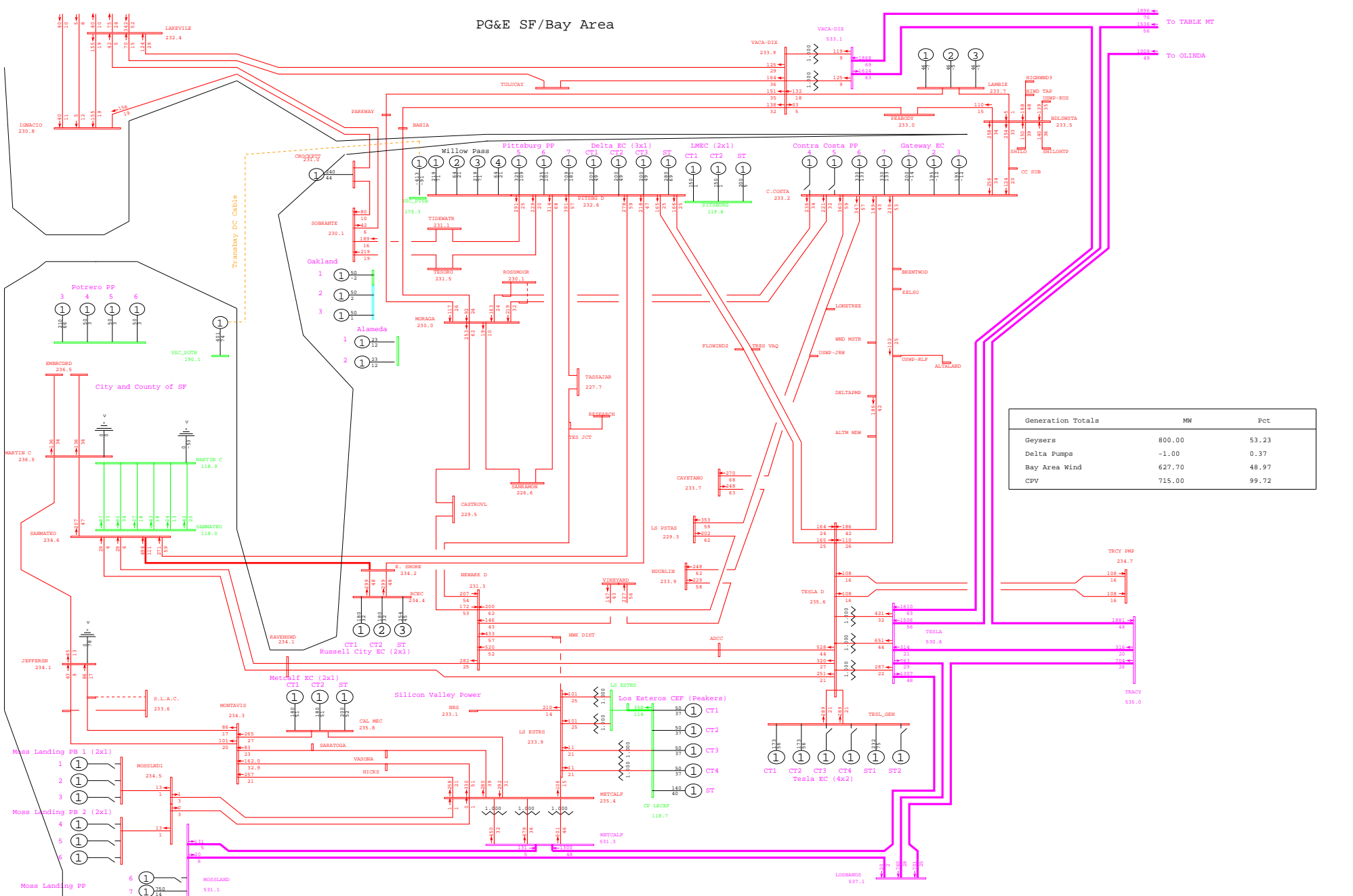
PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72



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General Electric International, Inc. PSLF Program Fri Sep 26 20:49:42 2008 wlopssv2-2013mrnt_pst_ptsb-403.sav

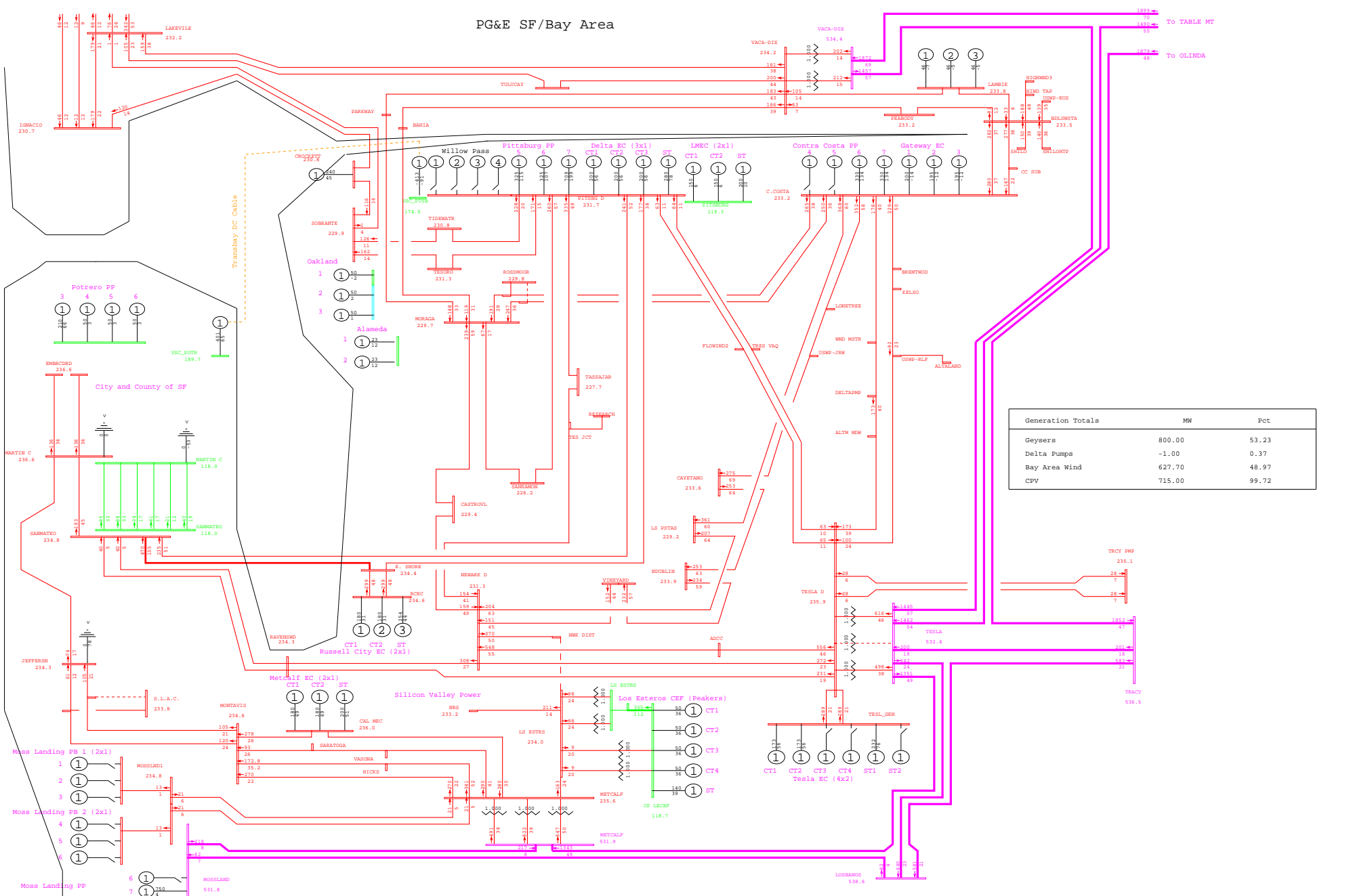


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 EVERGREEN - SENTER - ALMADEN 60kV LINE (Xfr. Almaden)
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 403

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

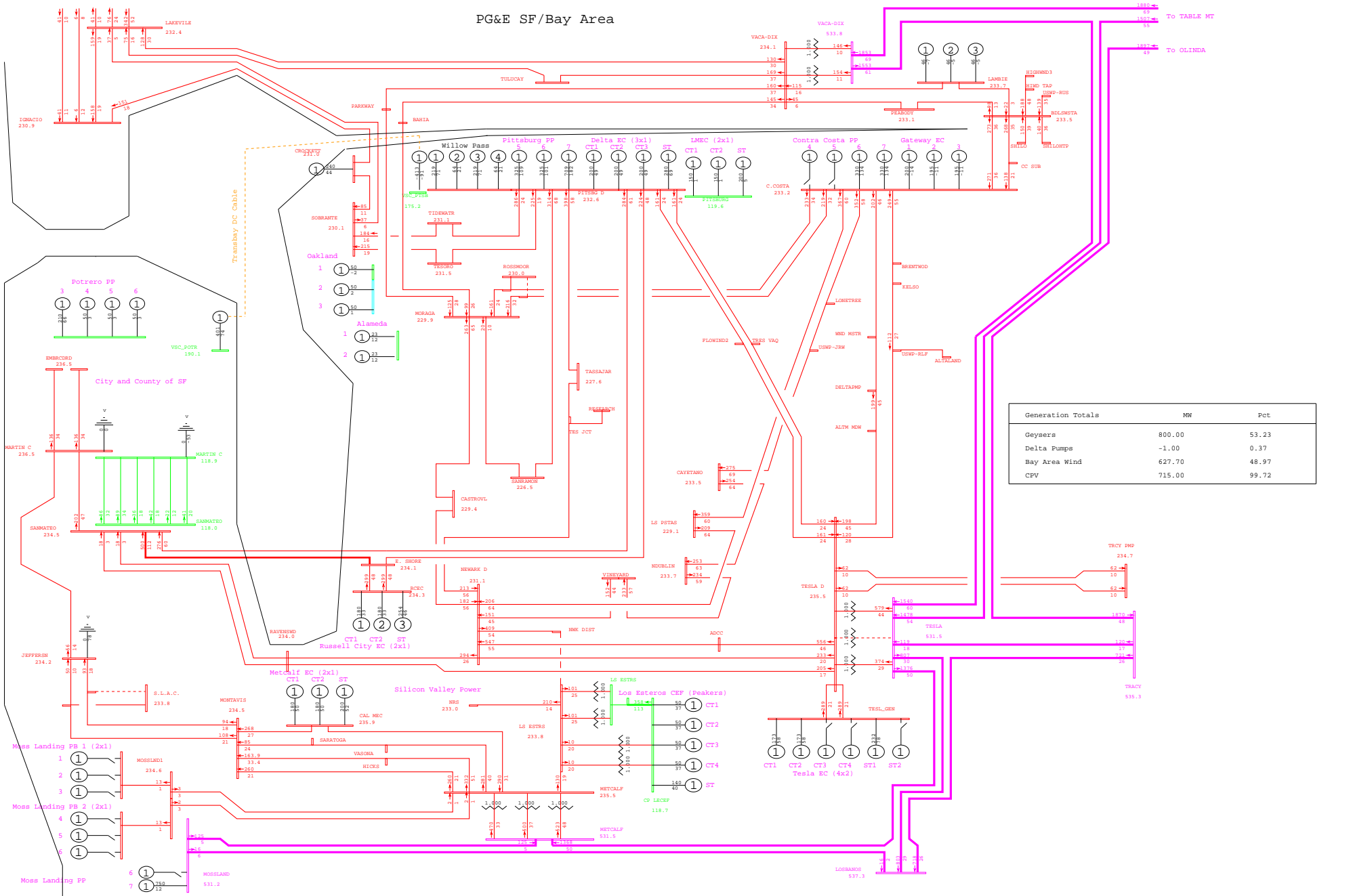
General Electric International, Inc. PSLF Program Fri Sep 26 20:52:54 2008 wlopssv2-2013mrnt_pre_ptsb-406.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 TESLA 500/230kV #2 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 406
 MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



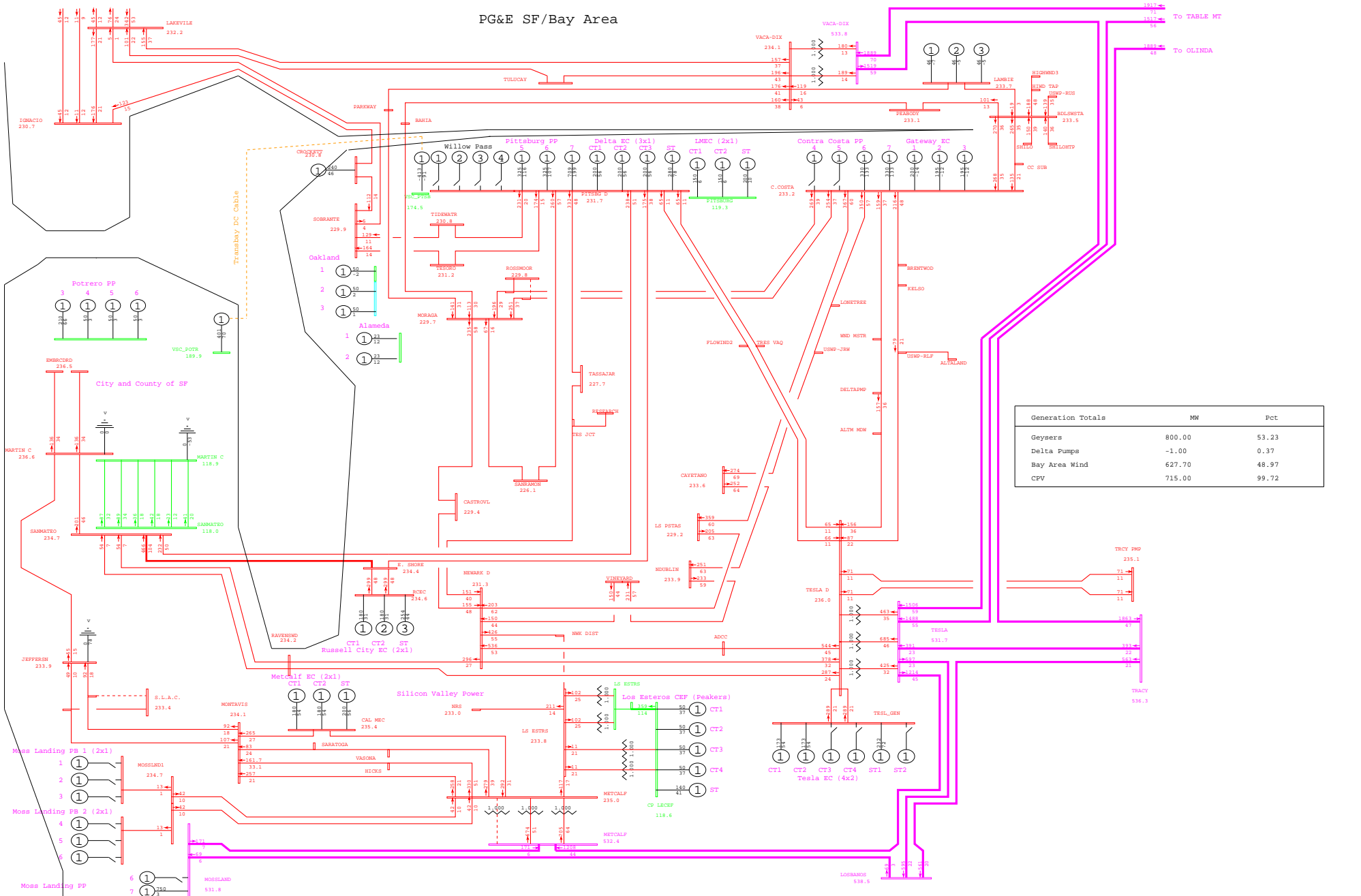
General Electric International, Inc. PSLF Program Fri Sep 26 20:49:43 2008 wlopssv2-2013mrnt_pst_ptsb-406.sav




PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 TESLA 500/230kV #2 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 406
 MW/% rate
 bayarea_2013_PGE_v4.0r.w
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:55 2008 wlopssv2-2013mrnt_pre_ptsb-409.sav

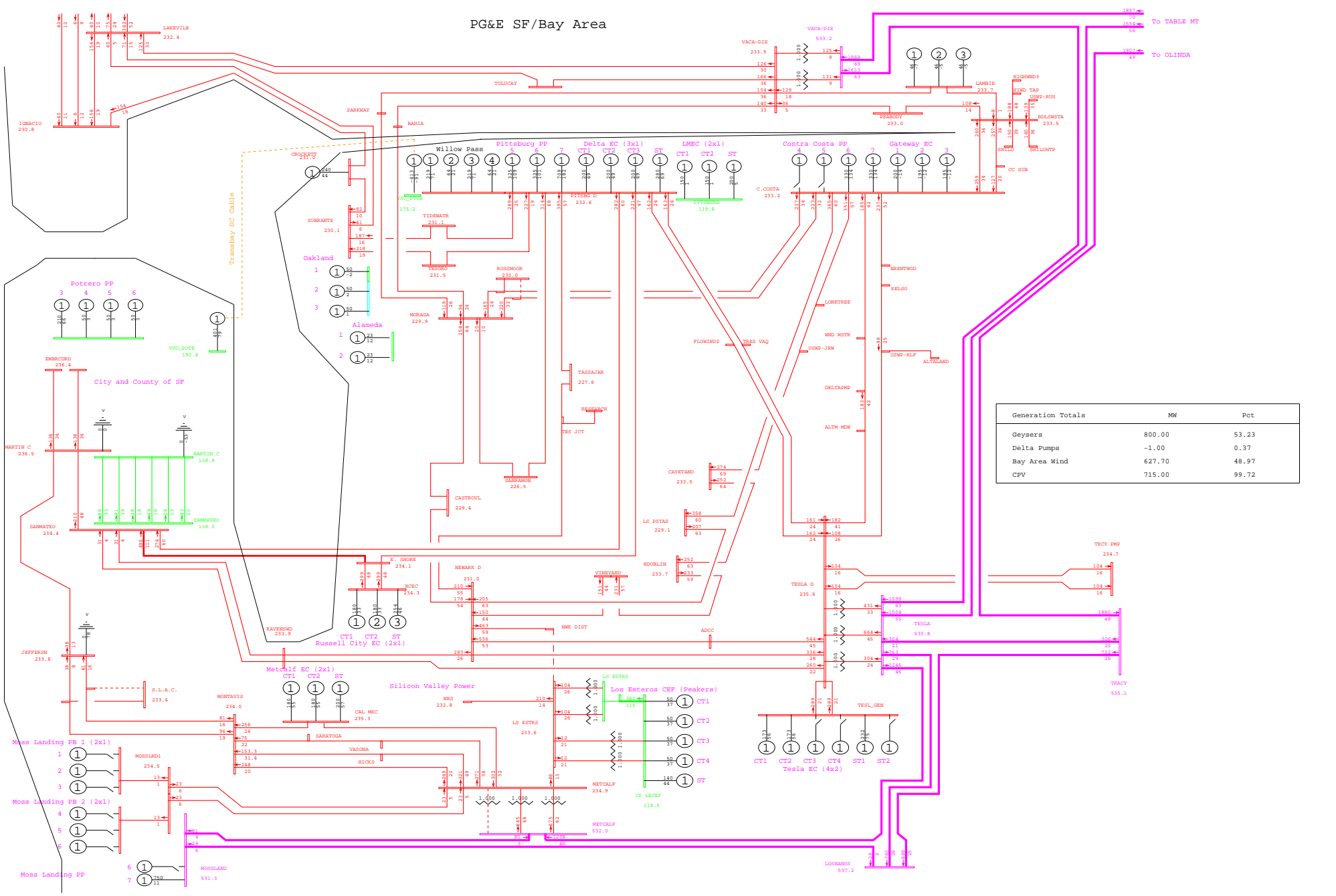


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 METCALF 500/230kV #11 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 409

MW/% rate
 bayarea_2013_PGE_v4.cdw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:44 2008 wlopssv2-2013mrnt_pst_ptsb-409.sav

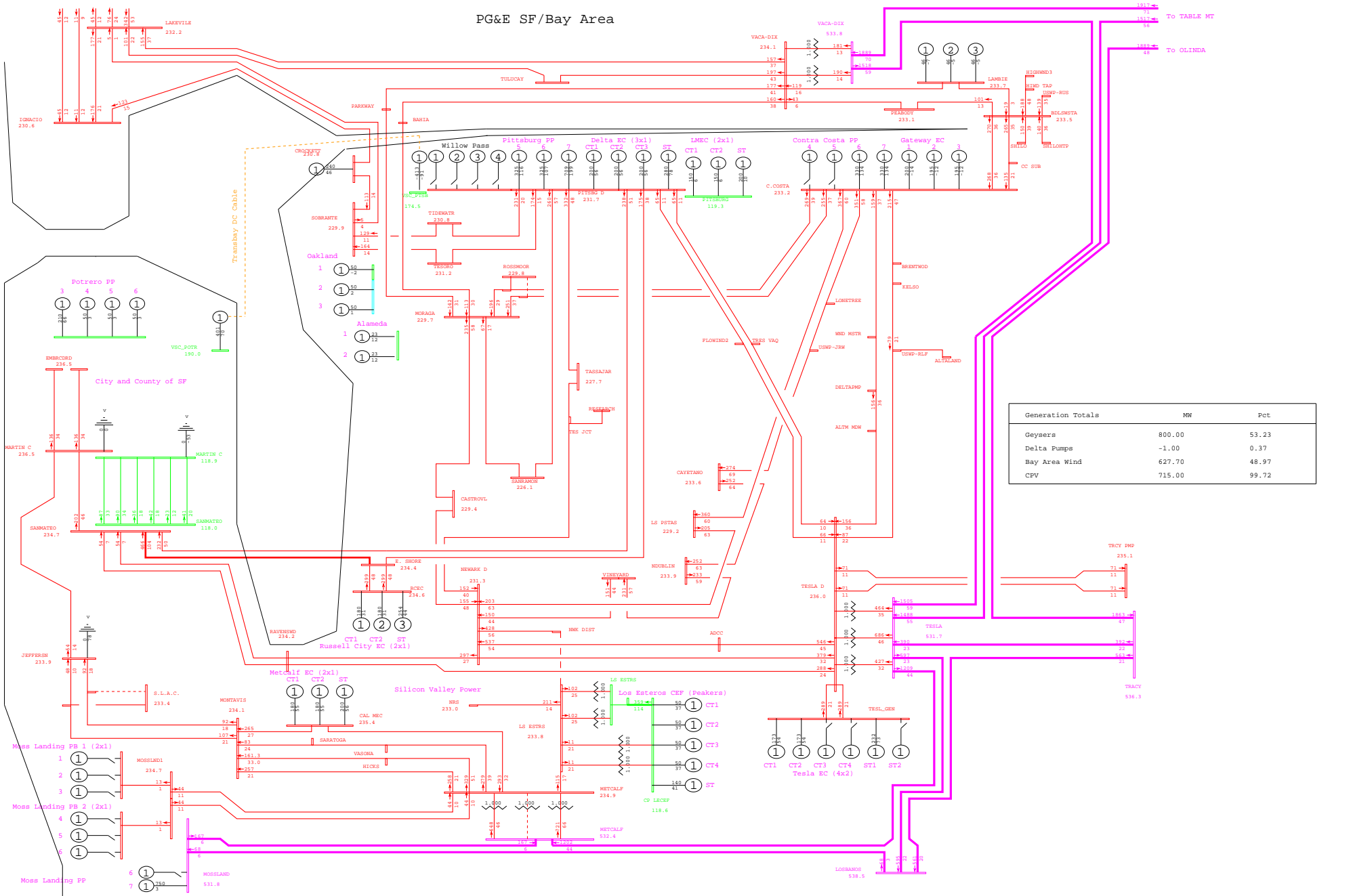


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 METCALF 500/230kV #11 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 409

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:56 2008 wlopssv2-2013mrnt_pre_ptsb-410.sav

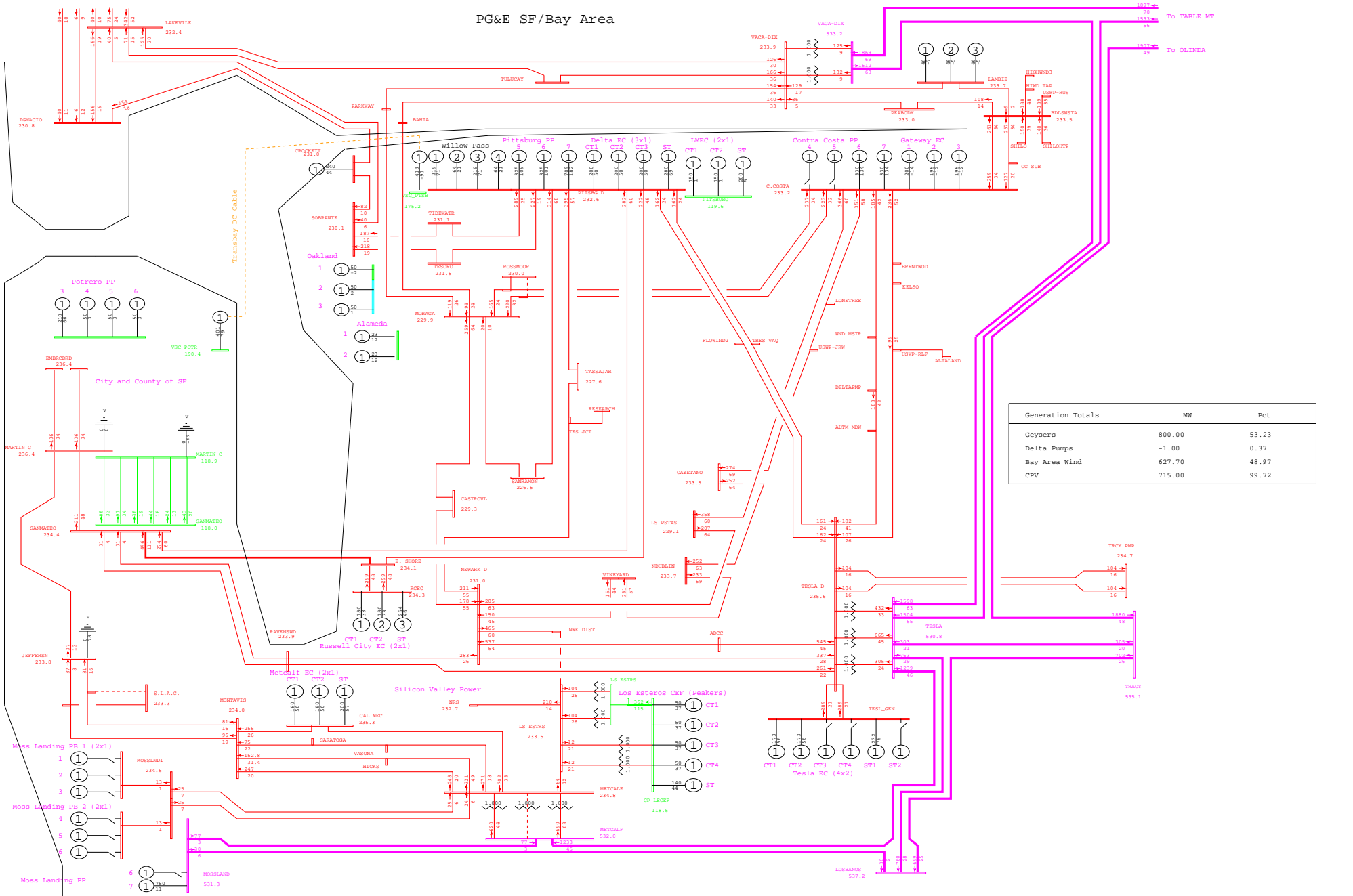


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 METCALF 500/230kV #12 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 410

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:45 2008 wlopssv2-2013mrnt_pst_ptsb-410.sav

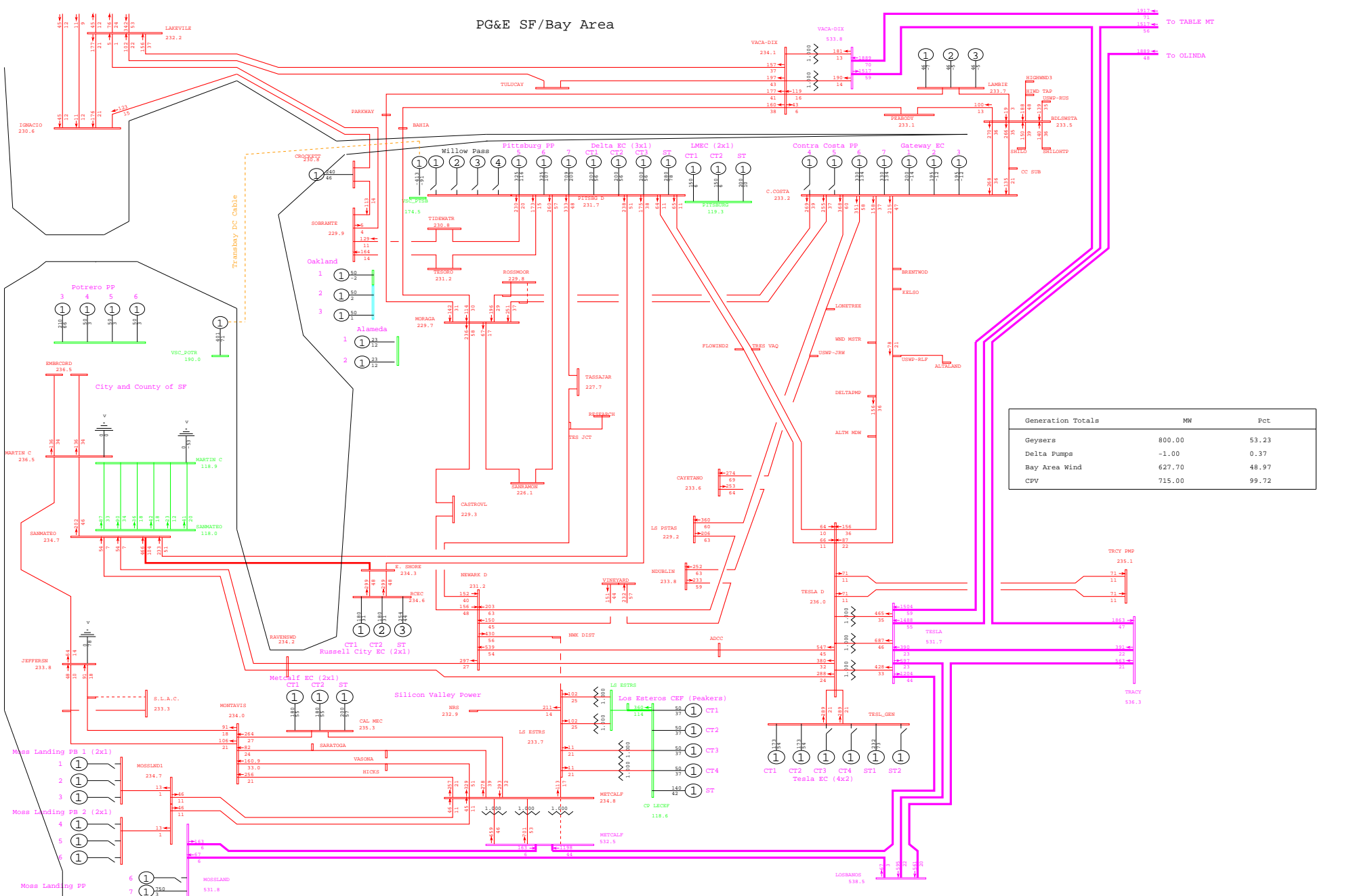


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 METCALF 500/230kV #12 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 410

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

General Electric International, Inc. PSLF Program Fri Sep 26 20:52:57 2008 wlopssv2-2013mrnt_pre_ptsb-411.sav

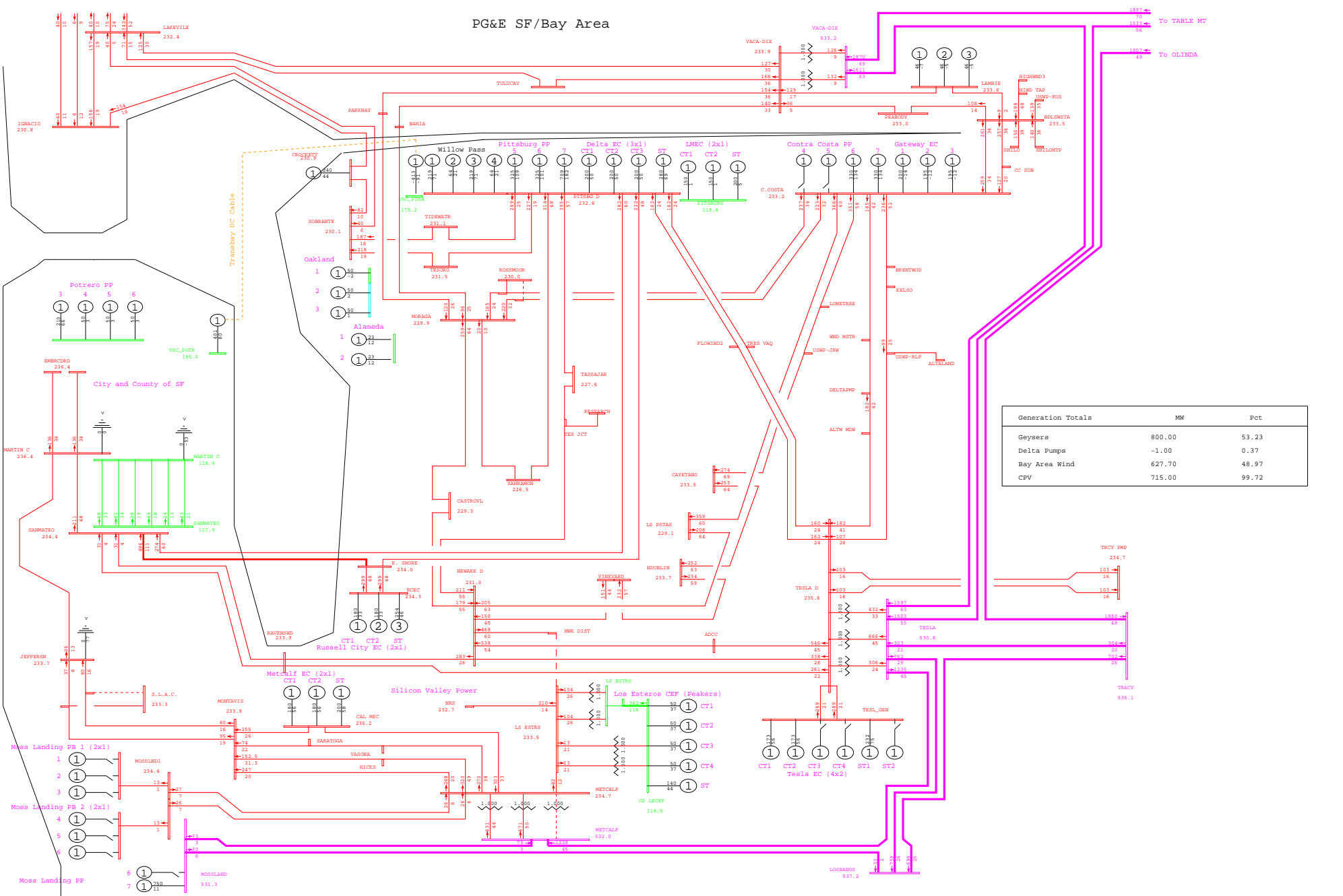


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 METCALF 500/230kV #13 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 411

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

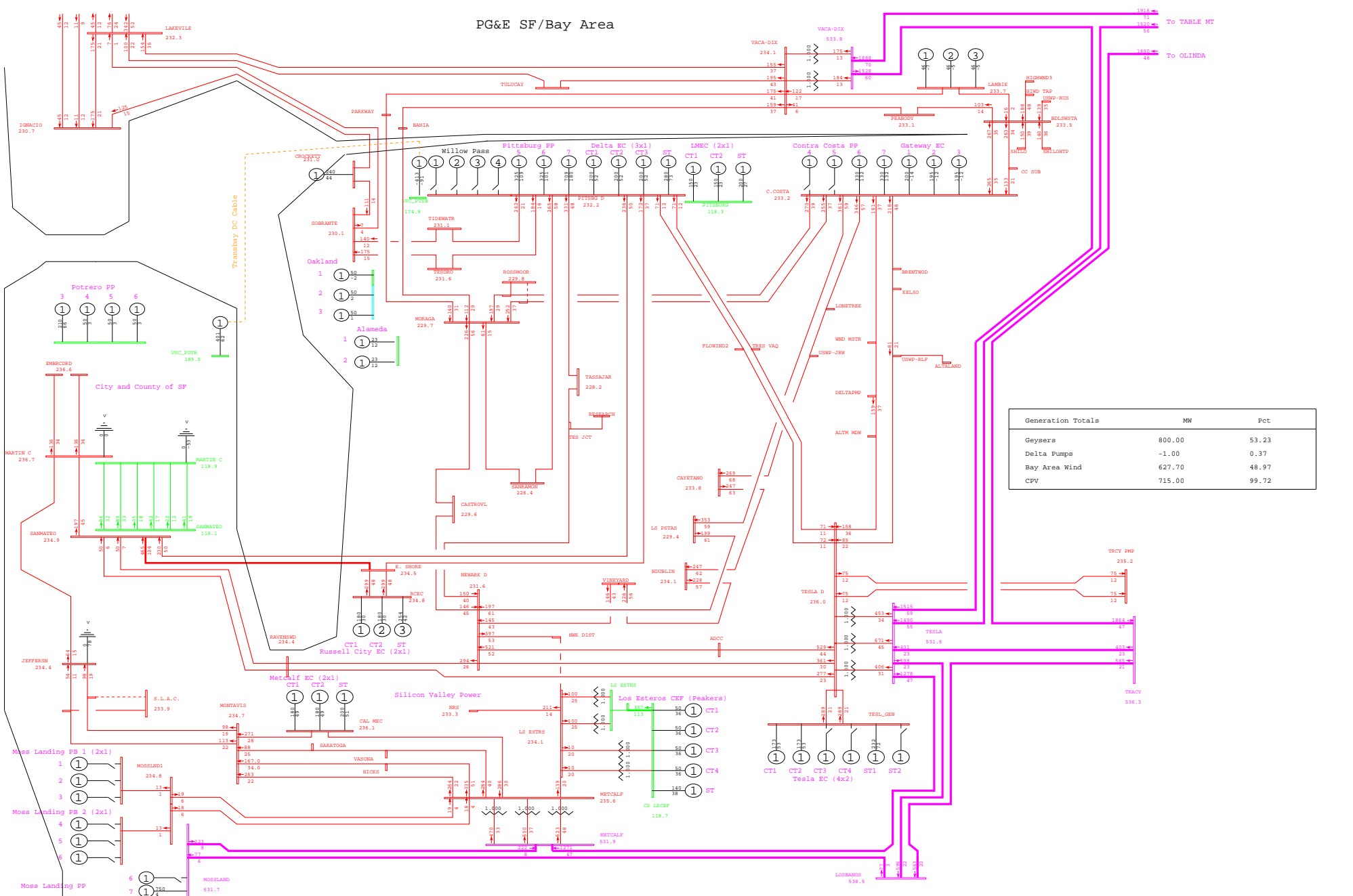
PG&E SF/Bay Area




Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:58 2008 wlopssv2-2013mrnt_pre_ptsb-418.sav

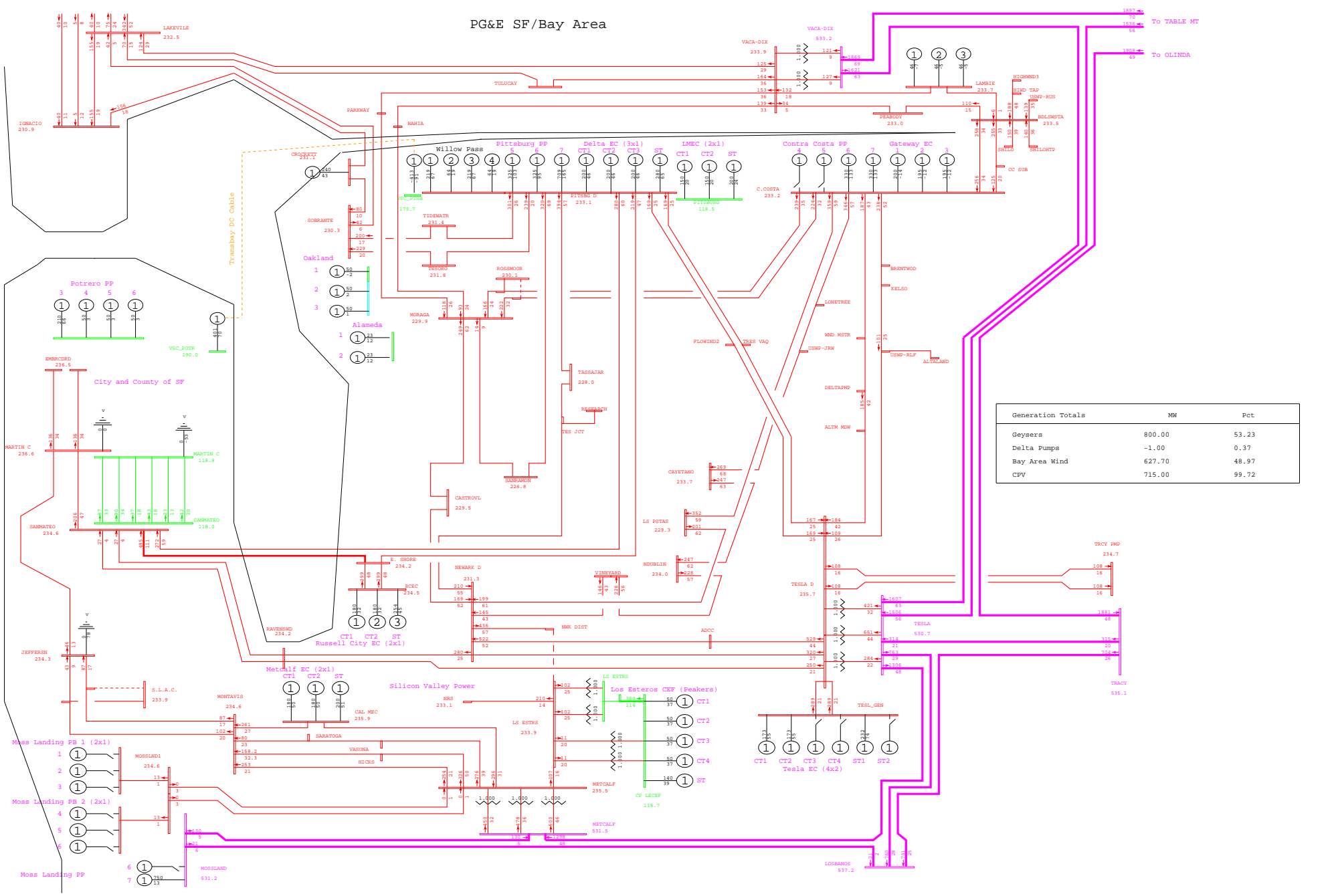


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


T-1 PITTSBURG 230/115kV #12 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 418

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



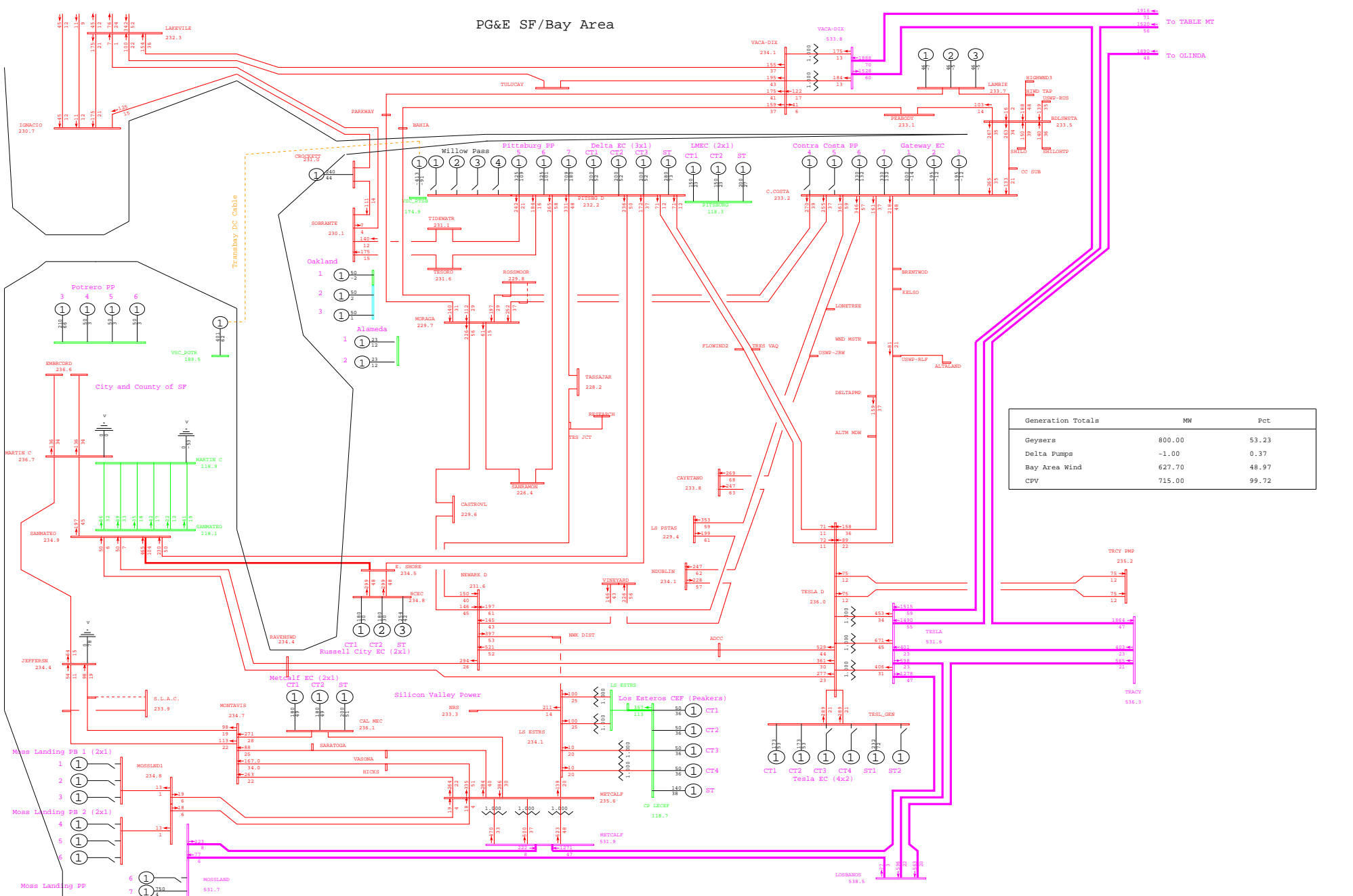
General Electric International, Inc. PSLF Program Fri Sep 26 20:49:47 2008 wlopssv2-2013mrnt_pst_ptsb-418.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


T-1 PITTSBURG 230/115kV #12 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 418

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



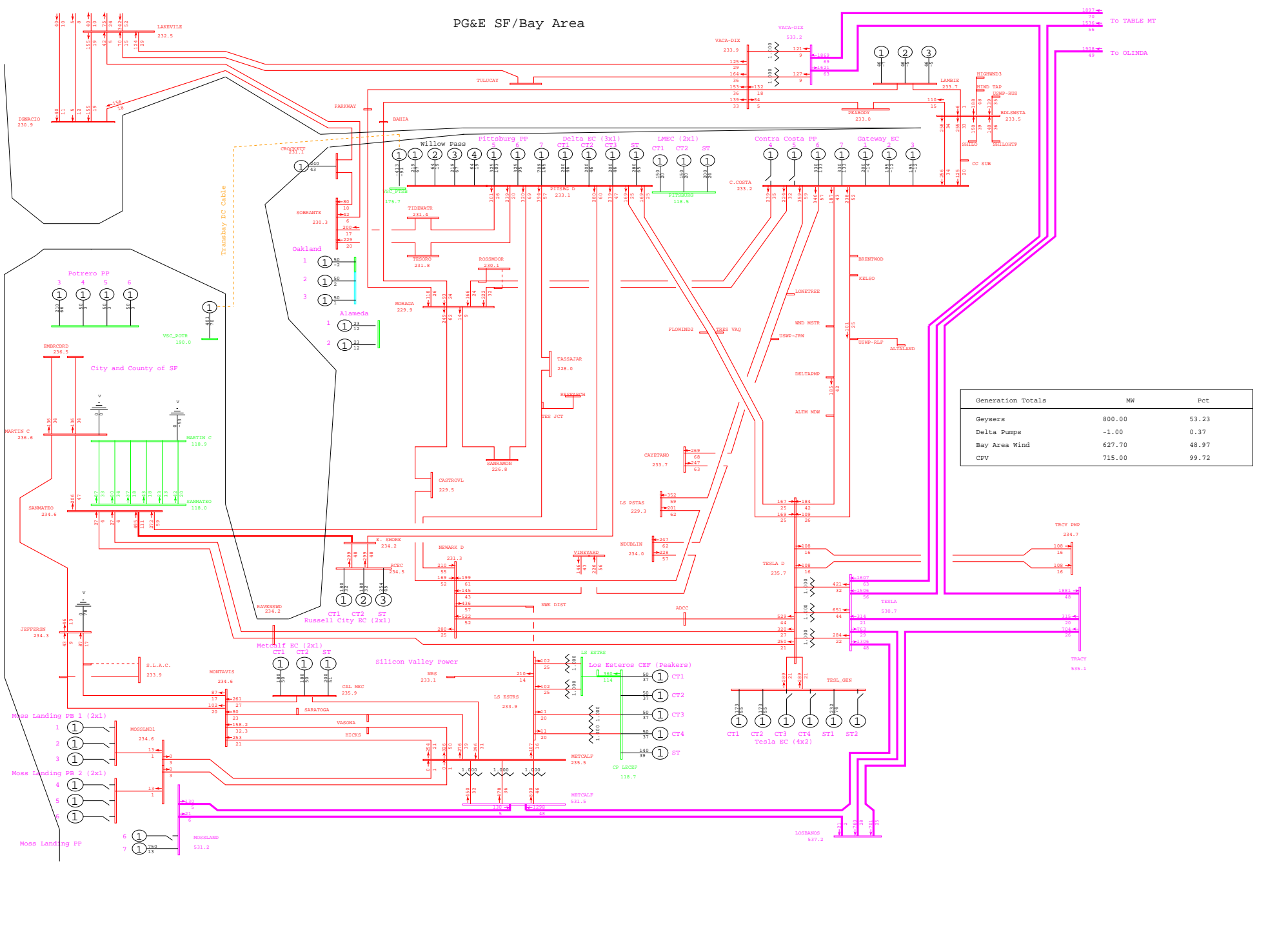
General Electric International, Inc. PSLF Program Fri Sep 26 20:52:59 2008 wlopssv2-2013mrnt_pre_ptsb-419.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


T-1 PITTSBURG 230/115kV #13 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 419

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:48 2008 wlopssv2-2013mrnt_pst_ptsb-419.sav

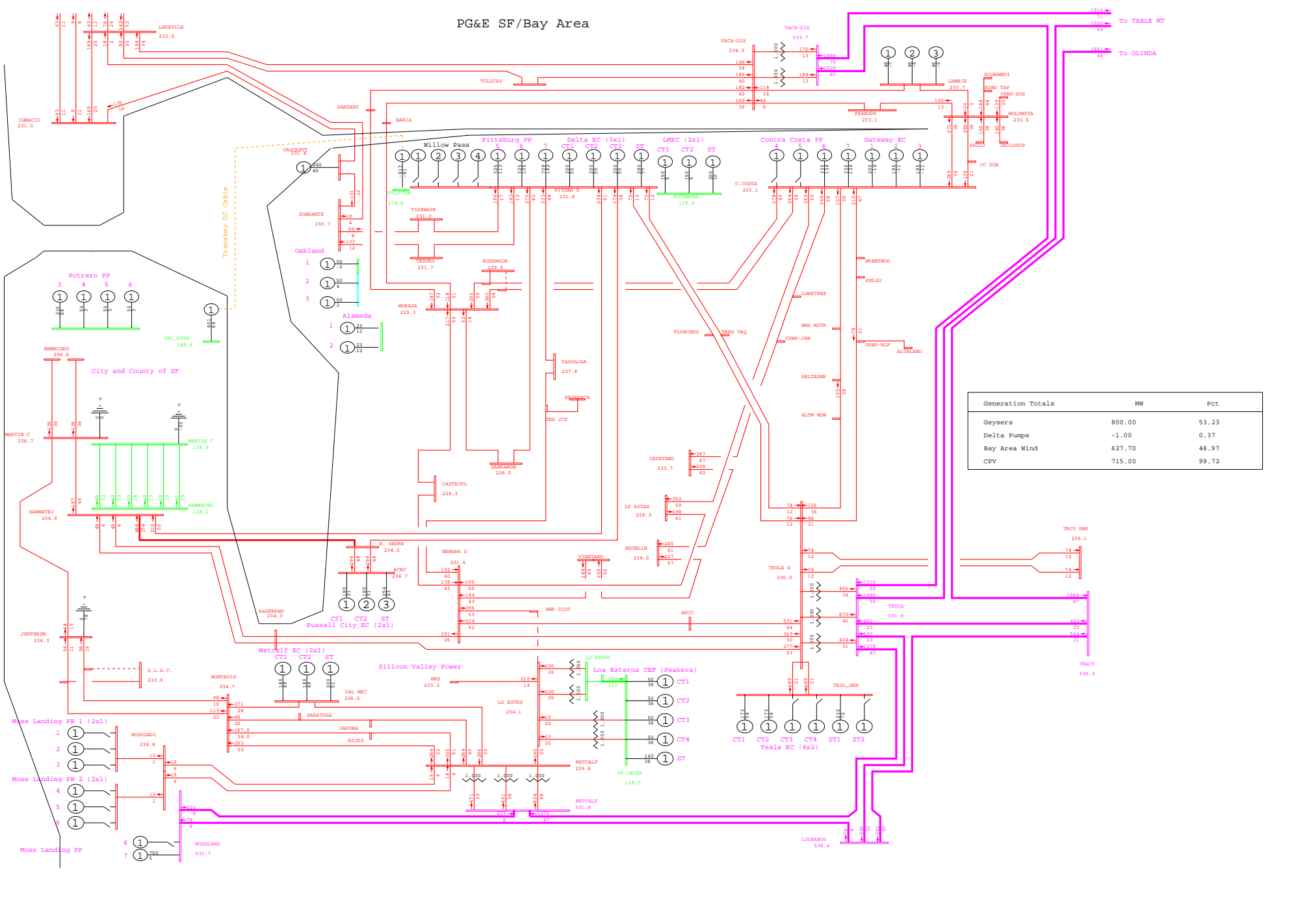


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 PITTSBURG 230/115kV #13 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 419

MW/% rate
 bayarea_2013_PGE_v4.0.rtf
 Rating = 2

PG&E SF/Bay Area



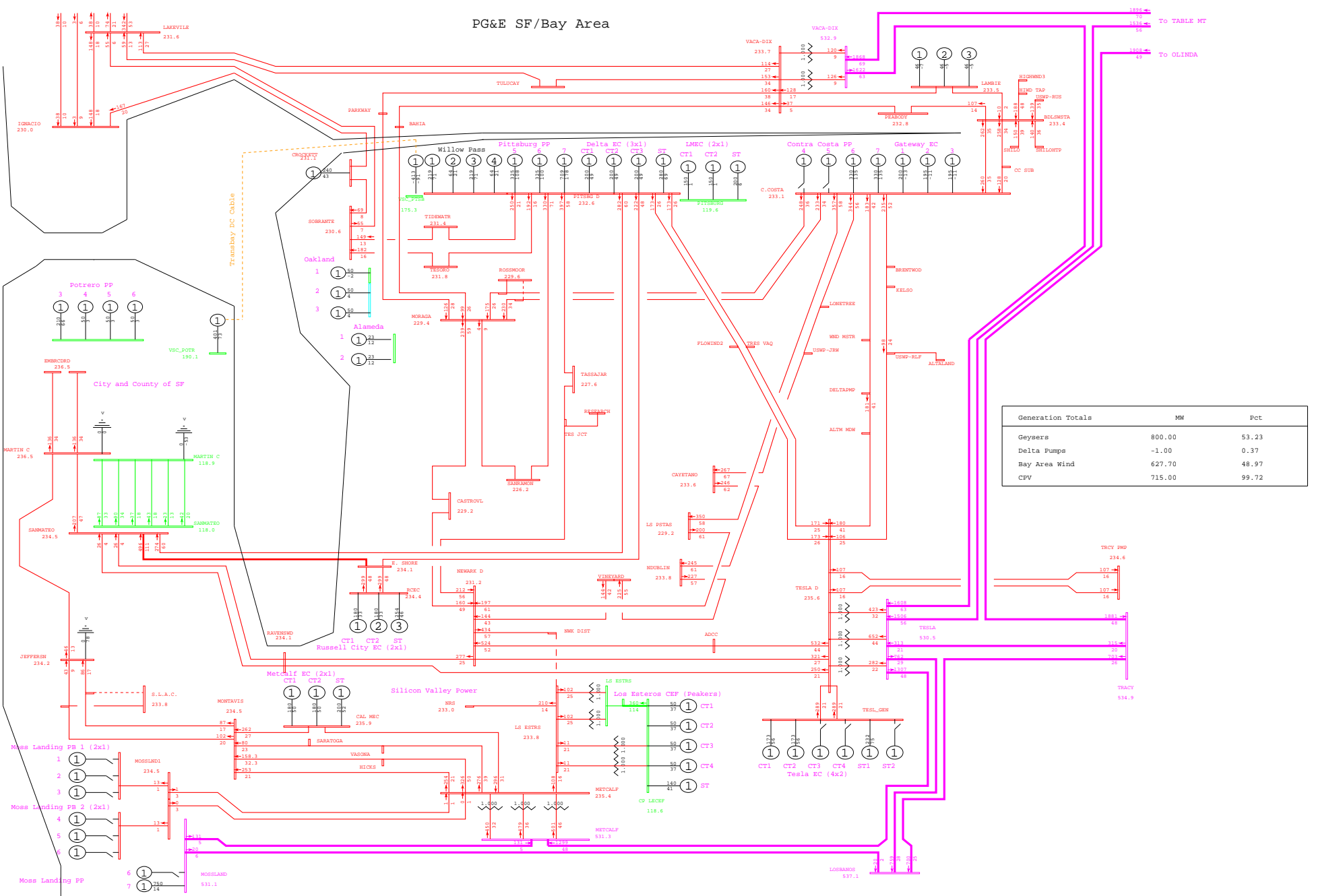
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:00 2008 wlopssv2-2013mrnt_pre_ptsb-420.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 SOBANTE 230/115kV #1 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 420
 MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:49 2008 wlopssv2-2013mrnt_pst_ptsb-420.sav

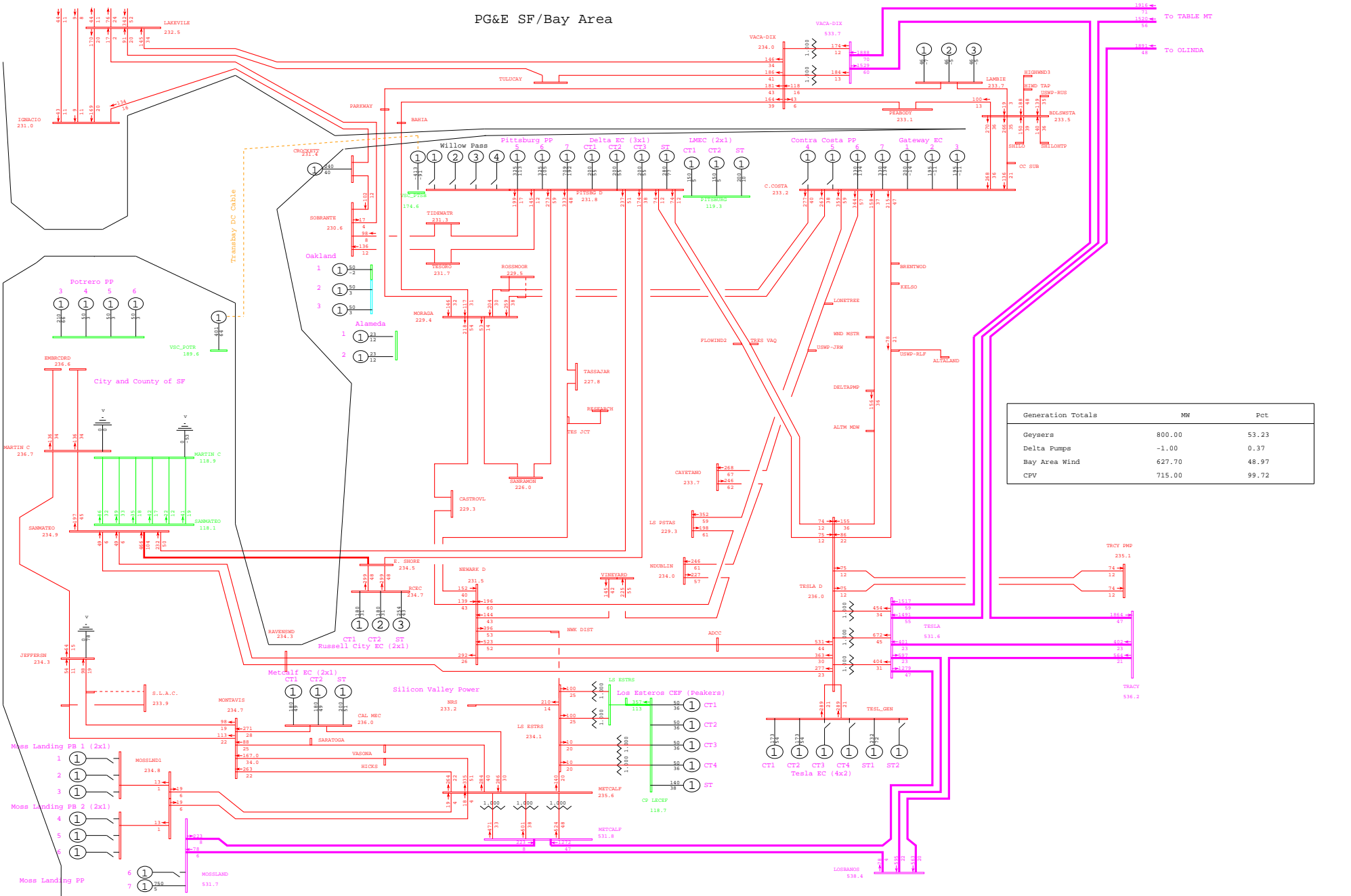


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

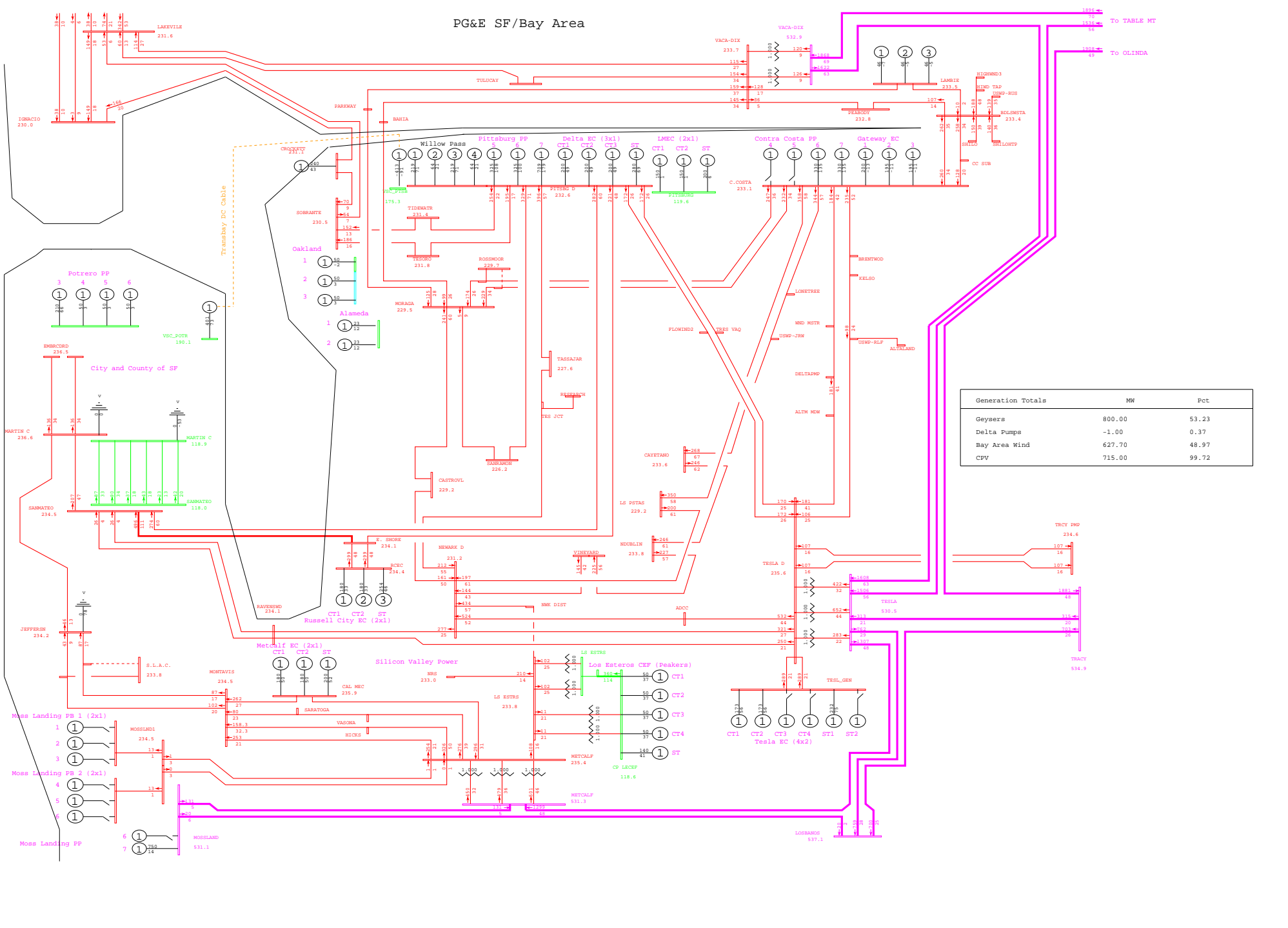
T-1 SOBRANTE 230/115kV #1 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 420

MW/% rate
 bayarea_2013_PGE_v4.0.rtf
 Rating = 2

PG&E SF/Bay Area



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:50 2008 wlopssv2-2013mrnt_pst_ptsb-421.sav

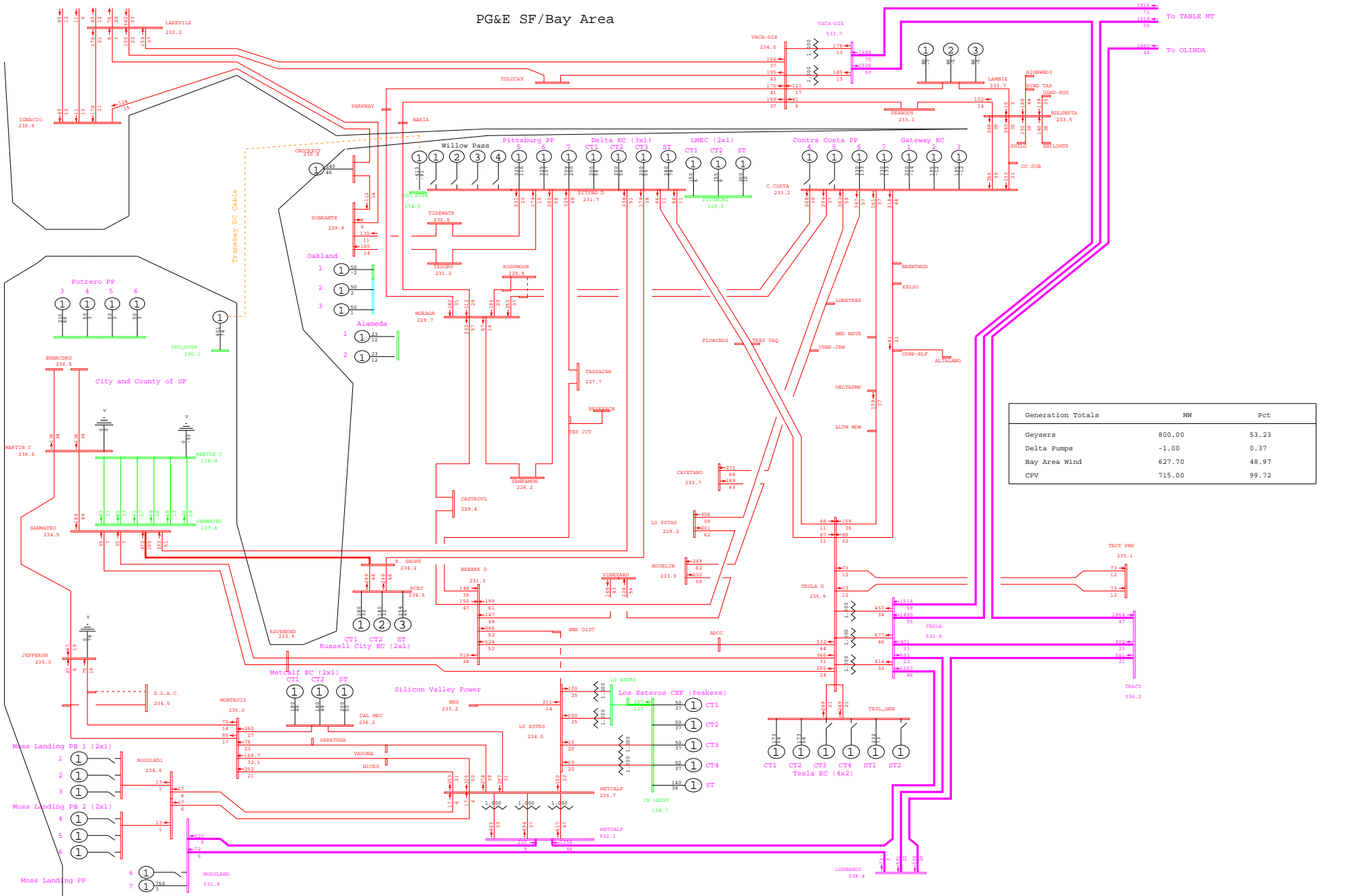


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 SOB RANTE 230/115kV #2 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 421

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:53:02 2008 wlopssv2-2013mrnt_pre_ptsb-426.sav

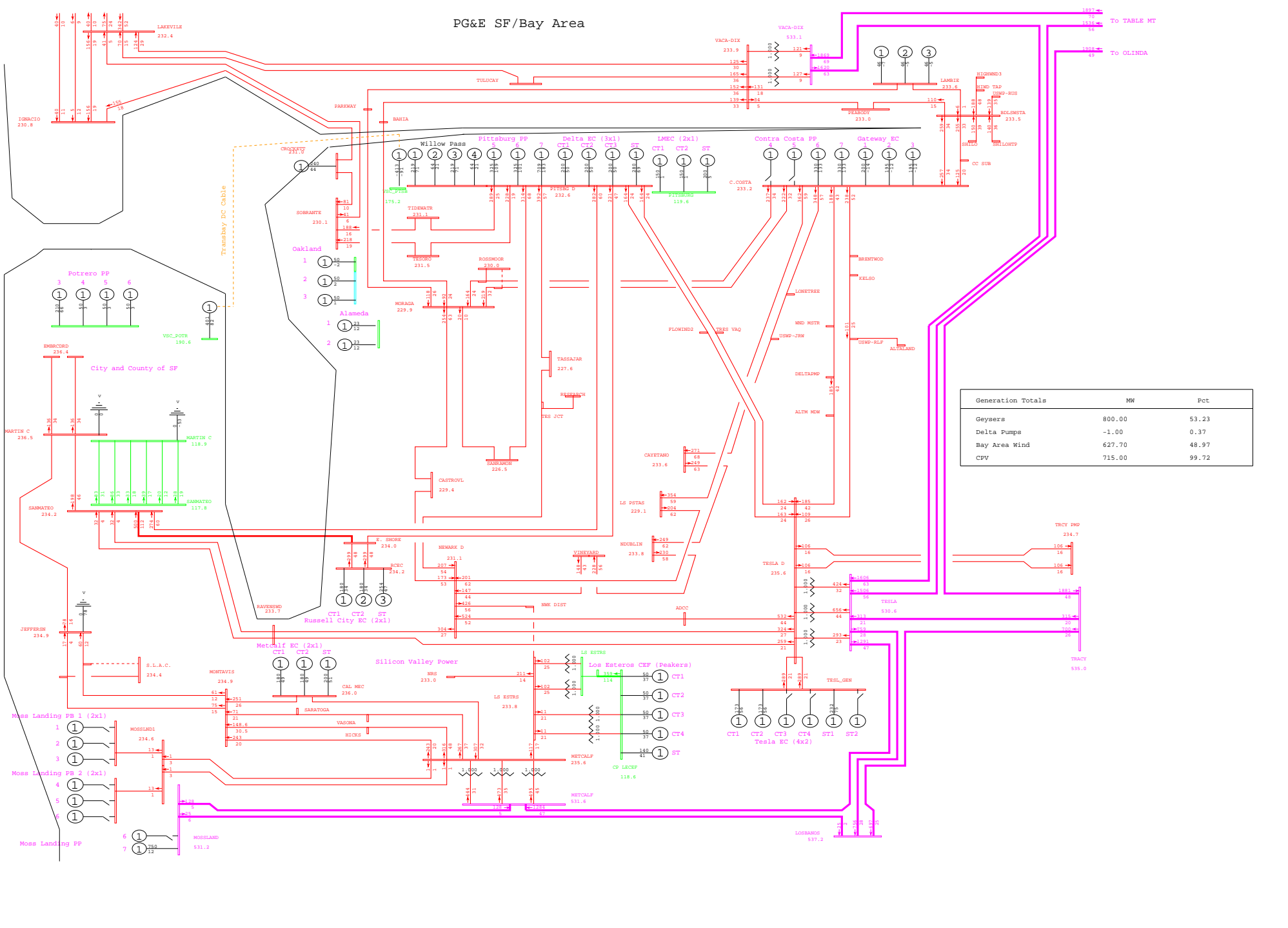


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 JEFFERSON 230/60kV #1 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 426

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:51 2008 wlopssv2-2013mrnt_pst_ptsb-426.sav

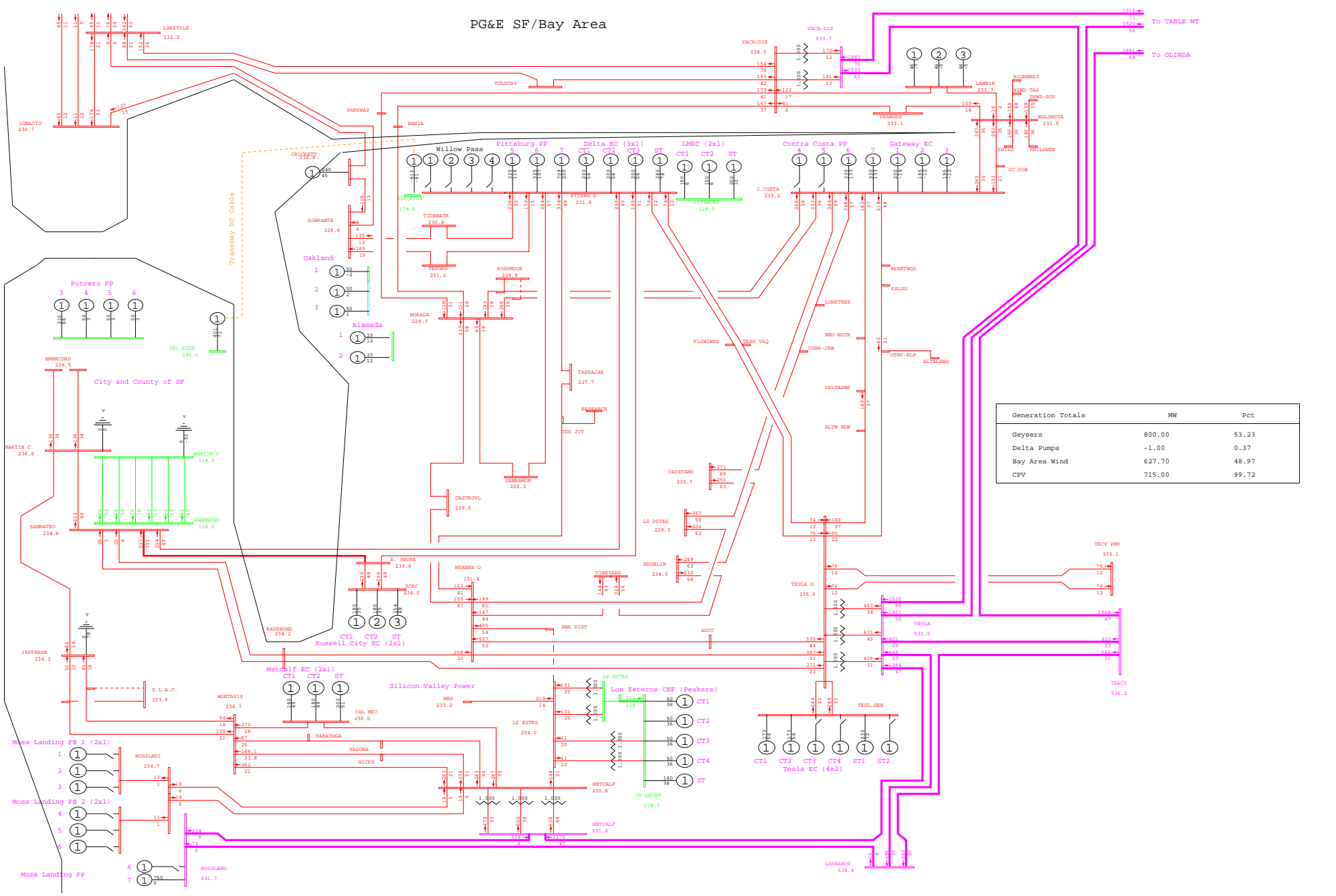


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 JEFFERSON 230/60kV #1 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 426

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



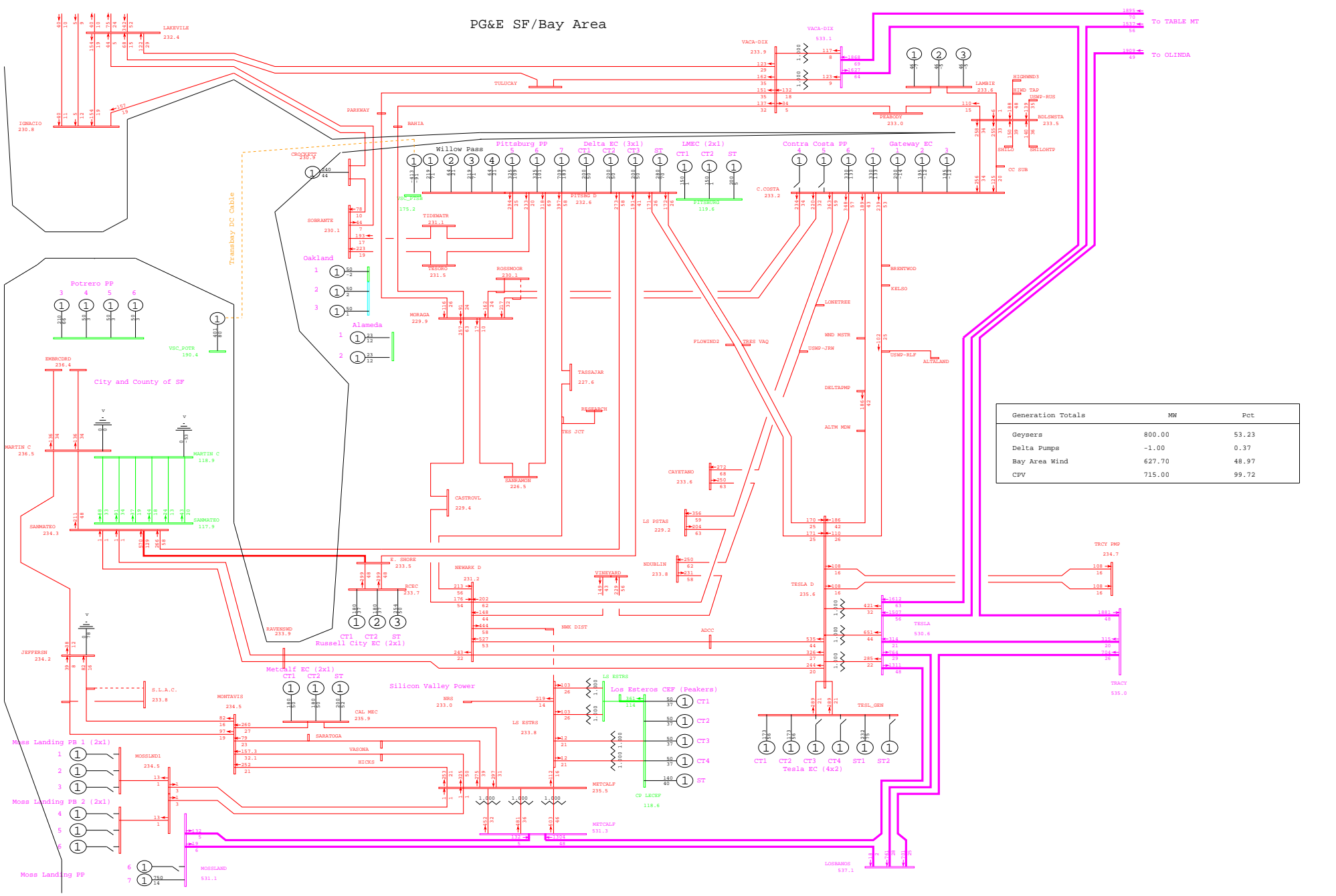
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:03 2008 wlopssv2-2013mrnt_pre_ptsb-434.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 EAST SHORE 230/115kV #1 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 434
 MW/% rate
 bayarea_2013_PGE_v4.0.rtf
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:52 2008 wlopssv2-2013mrnt_pst_ptsb-434.sav

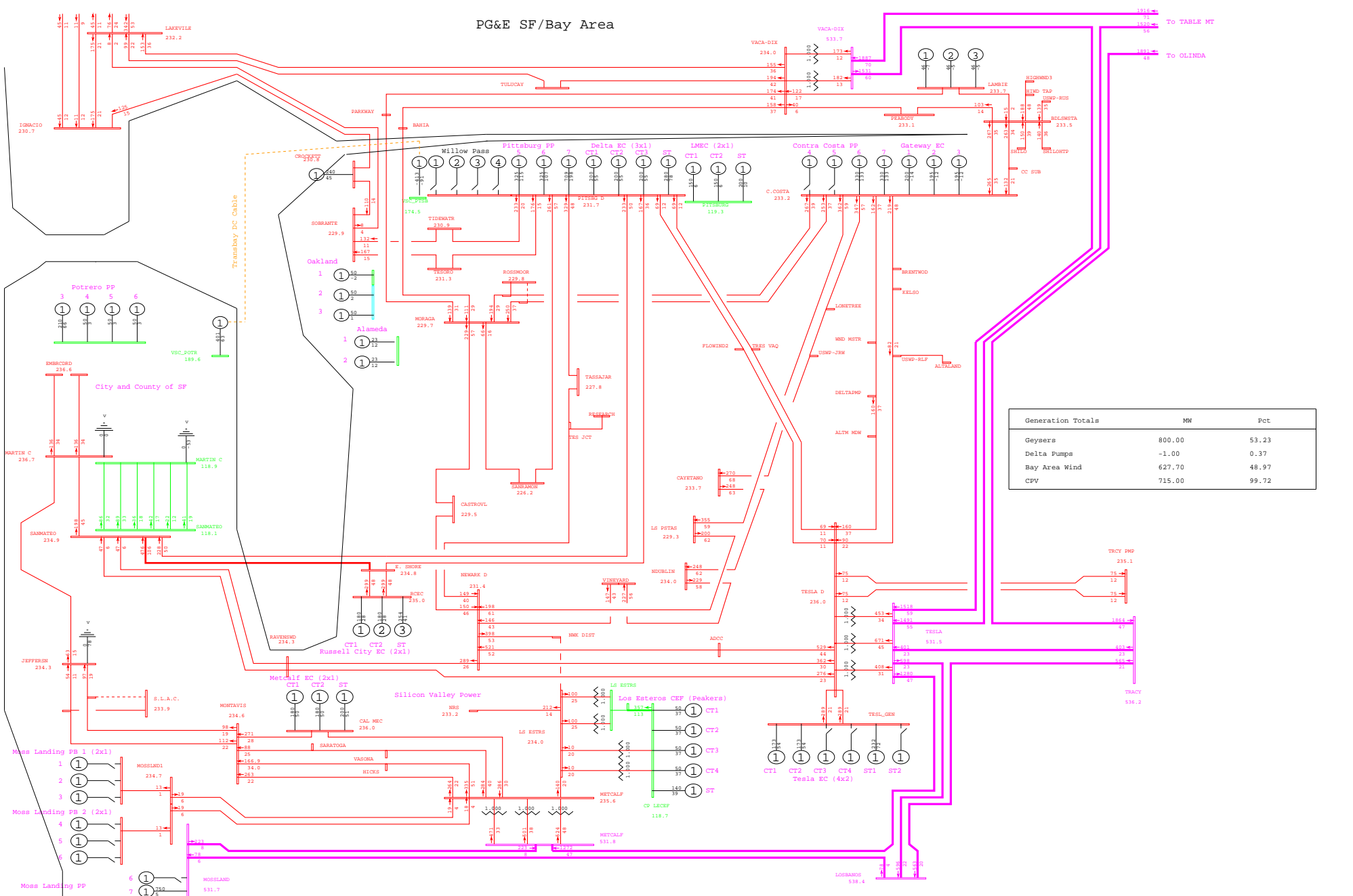


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


T-1 EAST SHORE 230/115kV #1 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 434

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:53:04 2008 wlopssv2-2013mrnt_pre_ptsb-435.sav

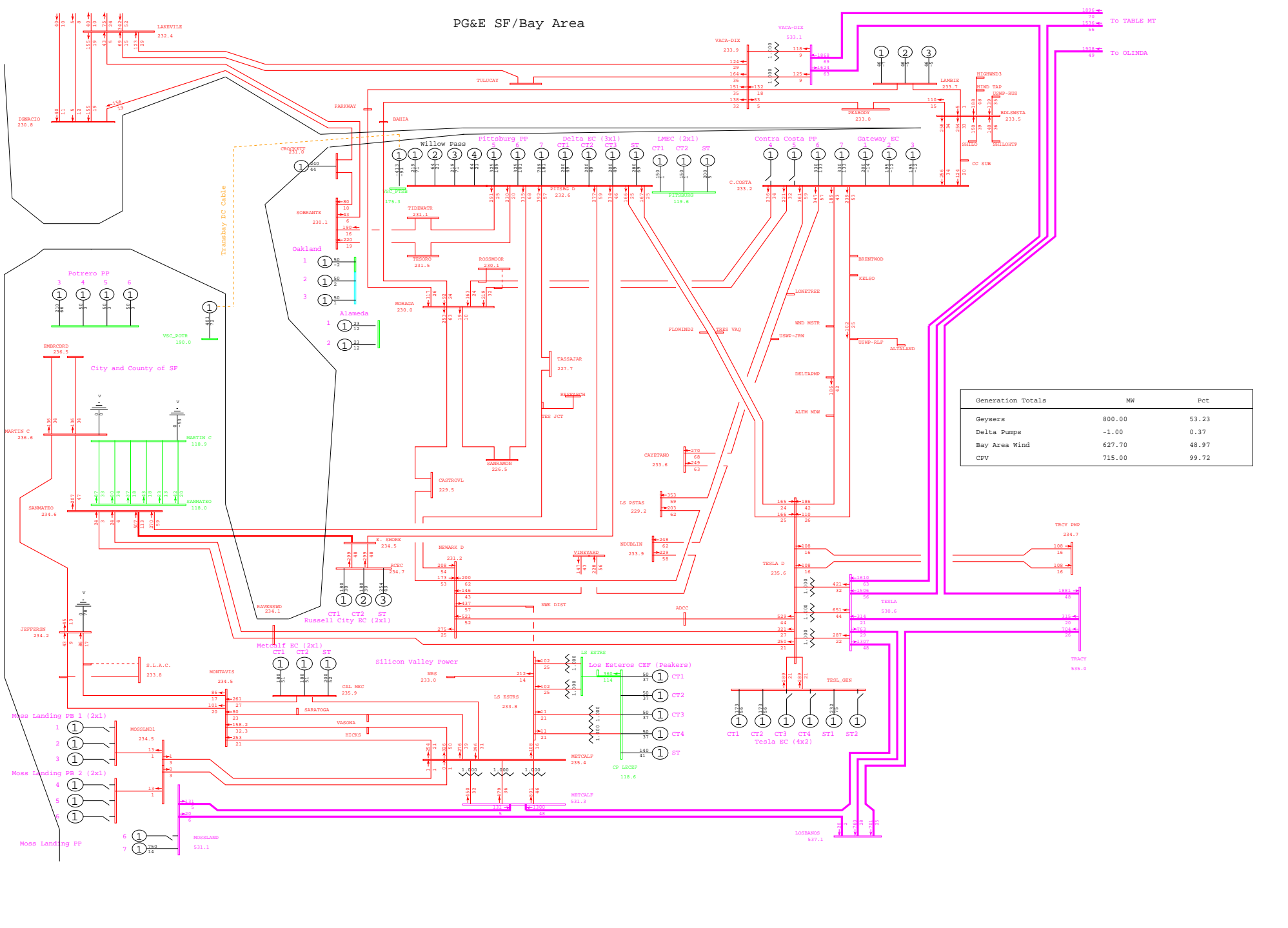


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 EAST SHORE 230/115kV #2 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 435

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:53 2008 wlopssv2-2013mrnt_pst_ptsb-435.sav

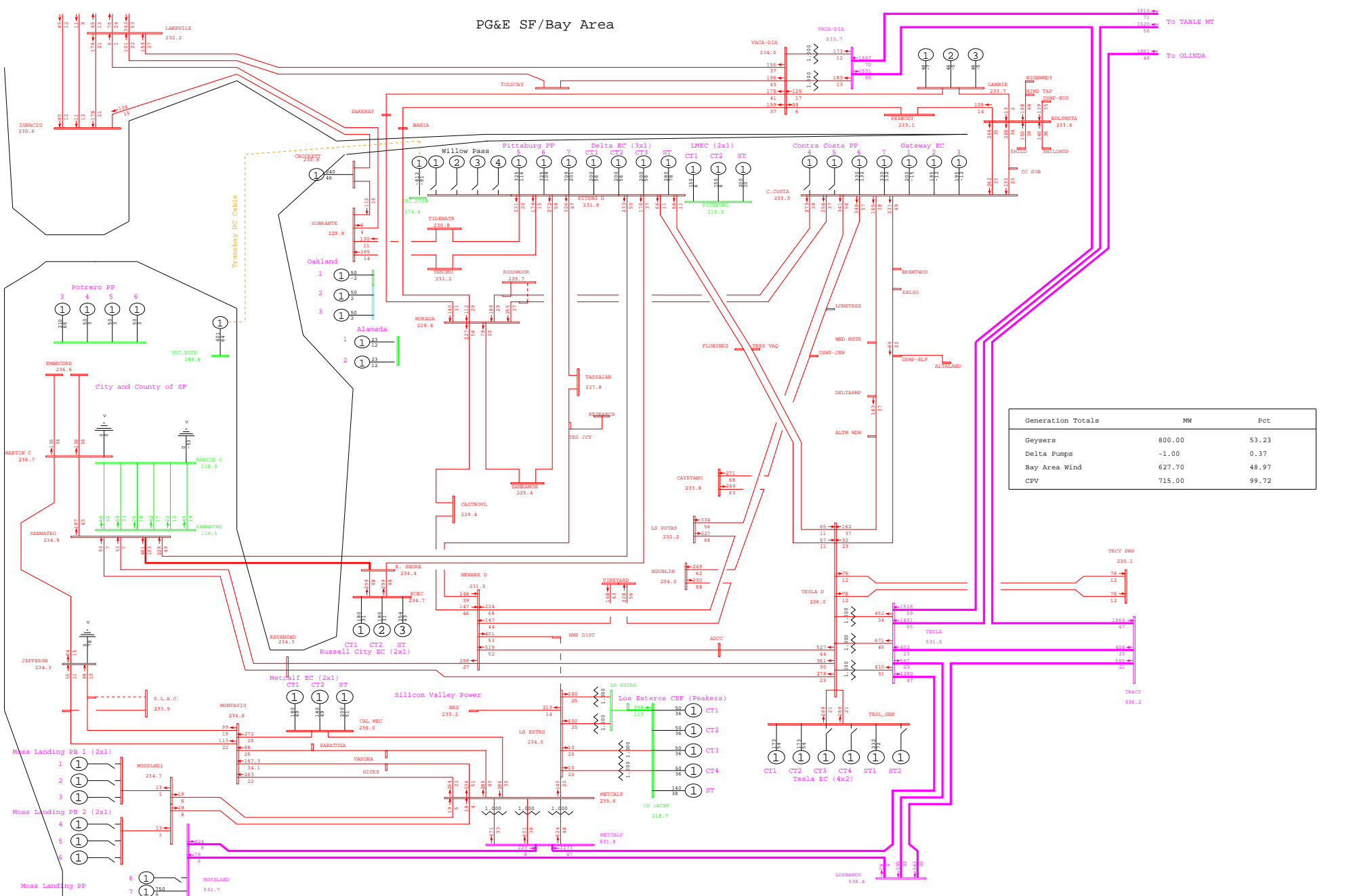


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


T-1 EAST SHORE 230/115kV #2 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 435

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area

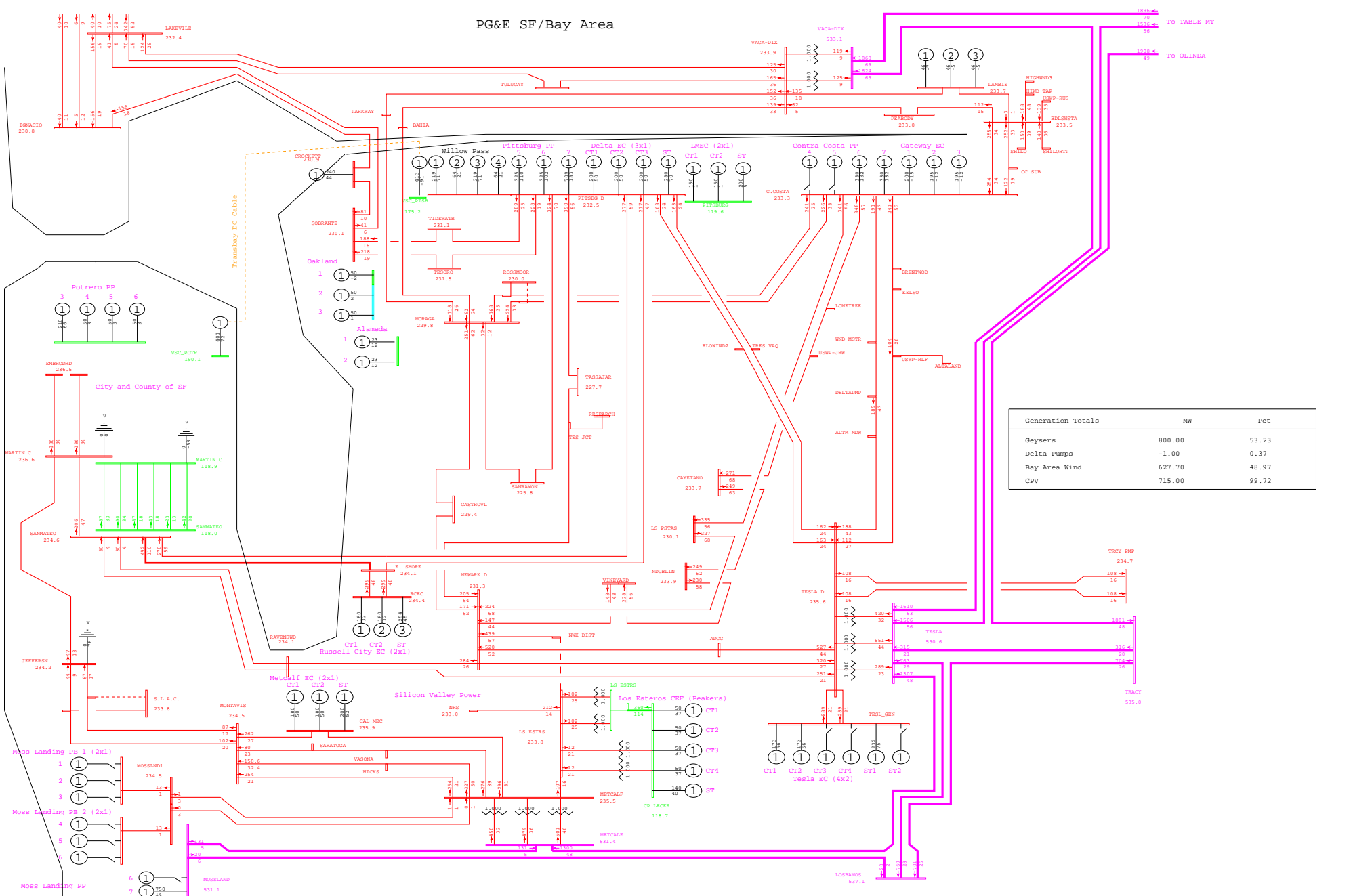


General Electric International, Inc. PSLF Program Fri Sep 26 20:53:05 2008 wlopssv2-2013mrnt_pre_ptsb-436.sav



 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 LOS POSITAS 230/60kV #4 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 436
 MW/% rate
 bayarea_2013_PGE_v4.0.rtf
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:54 2008 wlopssv2-2013mrnt_pst_ptsb-436.sav

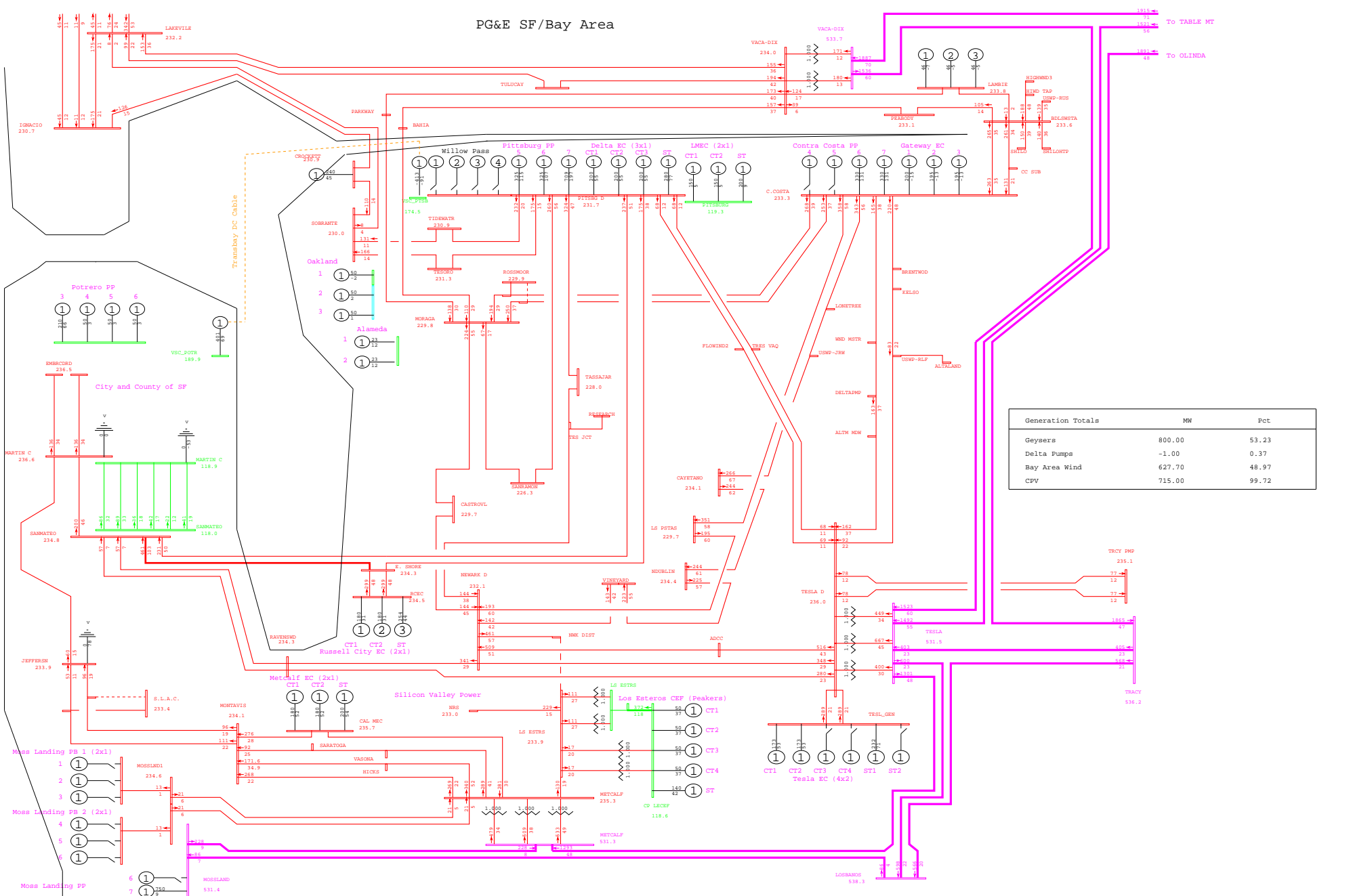


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 LOS POSITAS 230/60kV #4 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 436

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



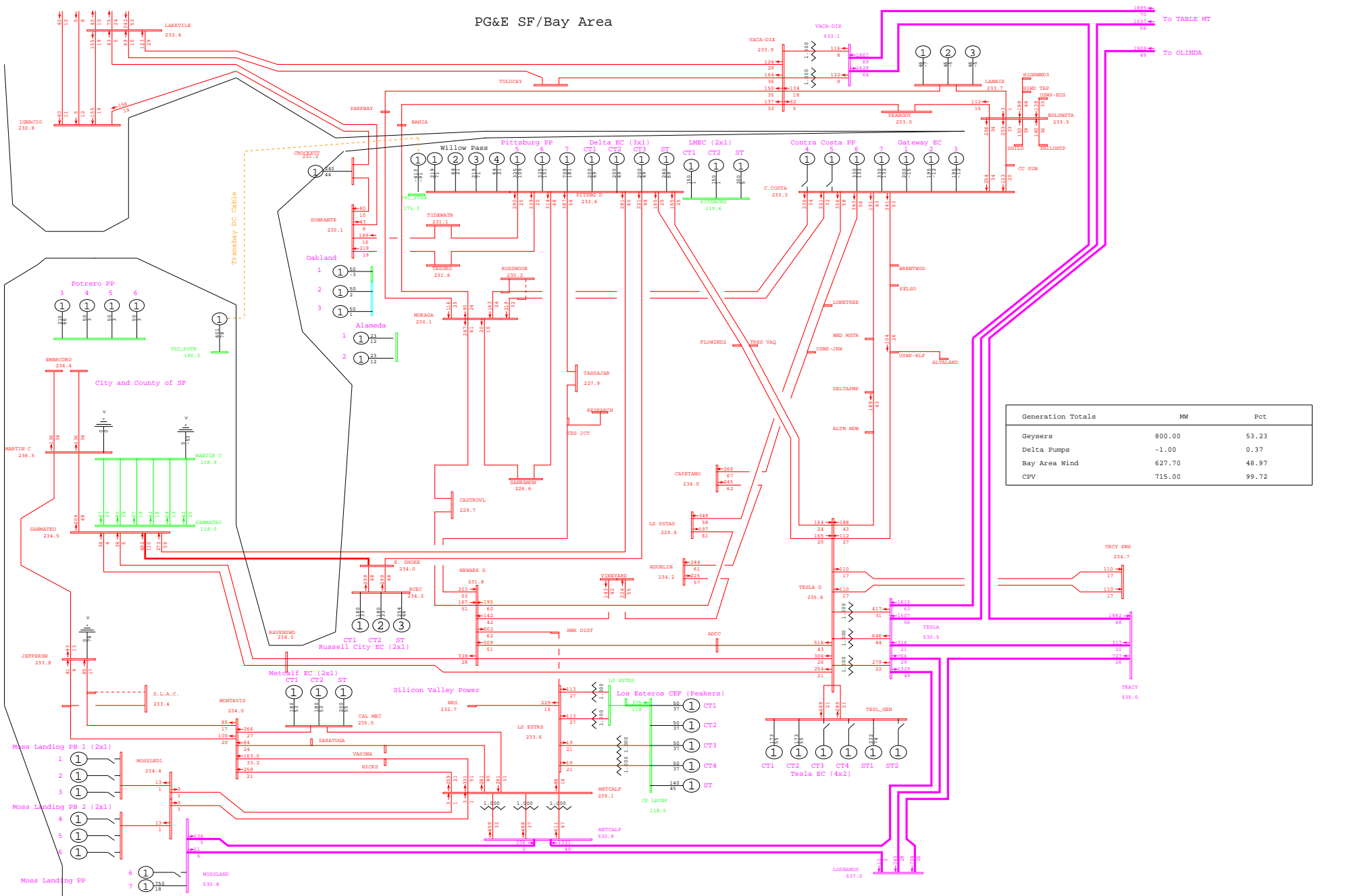
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:07 2008 wlopssv2-2013mrnt_pre_ptsb-438.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 NEWARK 230/115kV #7 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 438
 MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

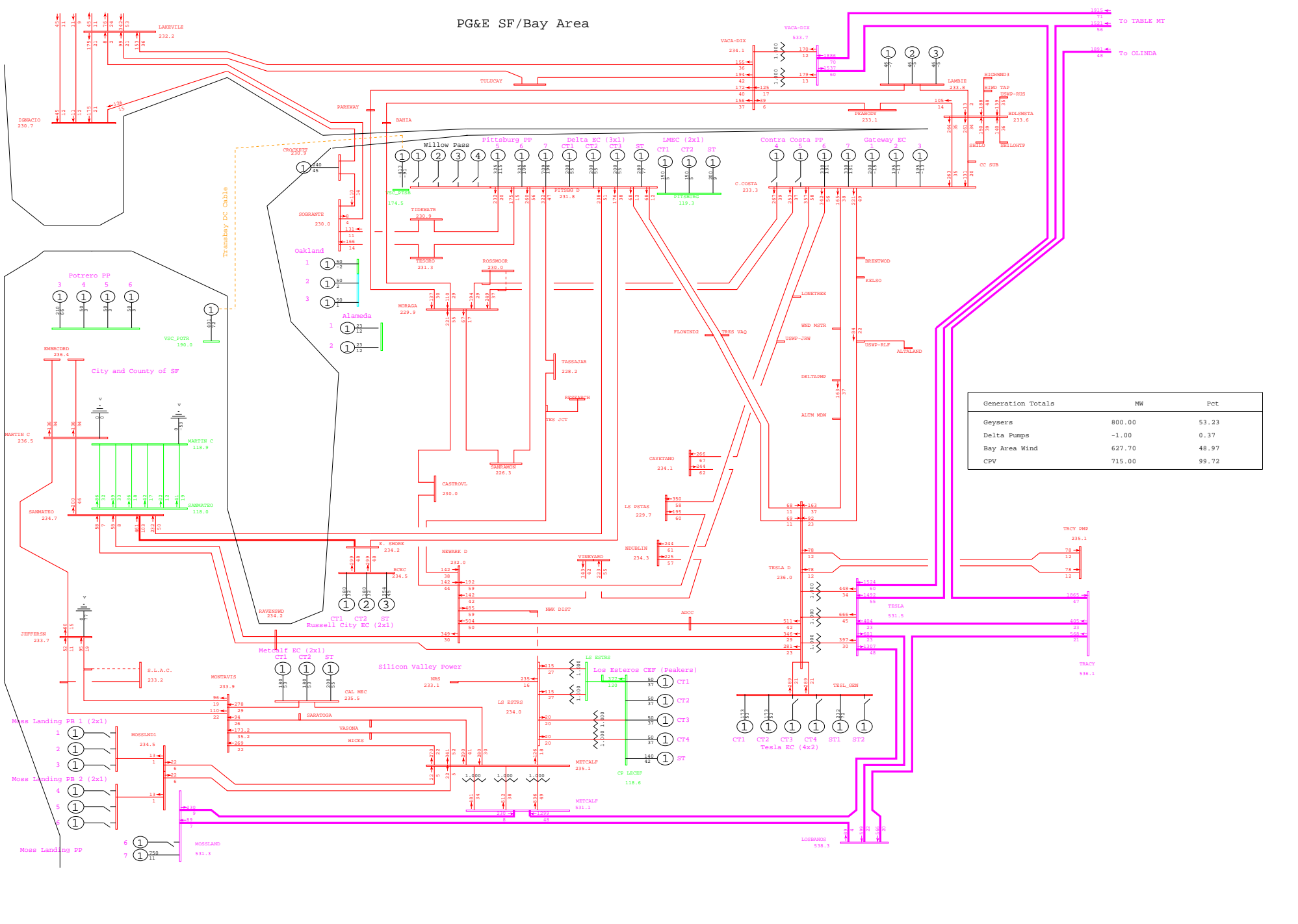
General Electric International, Inc. PSLF Program Fri Sep 26 20:49:55 2008 wlopssv2-2013mrnt_pst_ptsb-438.sav



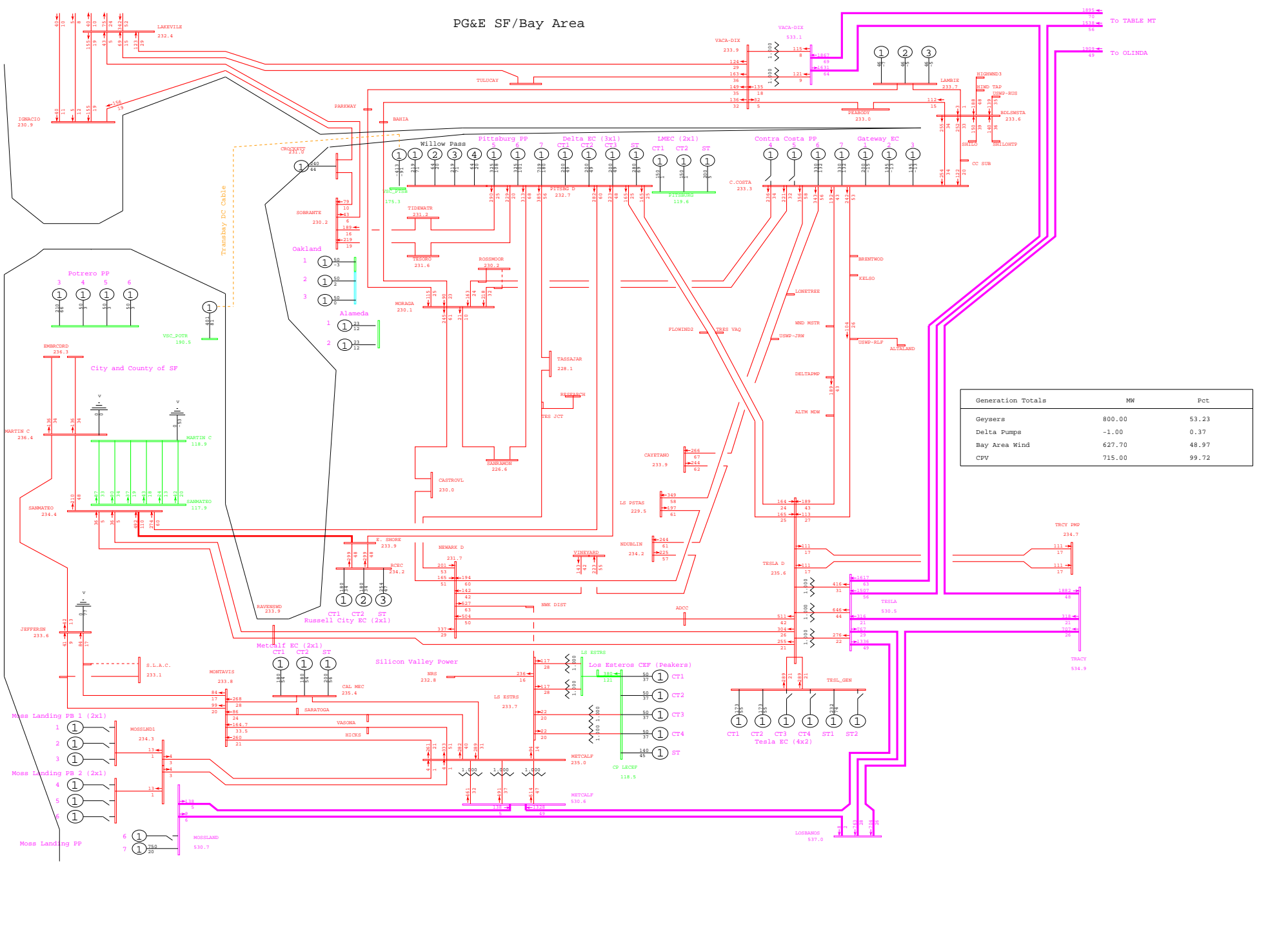
PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 NEWARK 230/115kV #7 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 438
 MW/% rate
 bayarea_2013_PGE_v4.cdw
 Rating = 2

PG&E SF/Bay Area



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:57 2008 wlopssv2-2013mrnt_pst_ptsb-439.sav

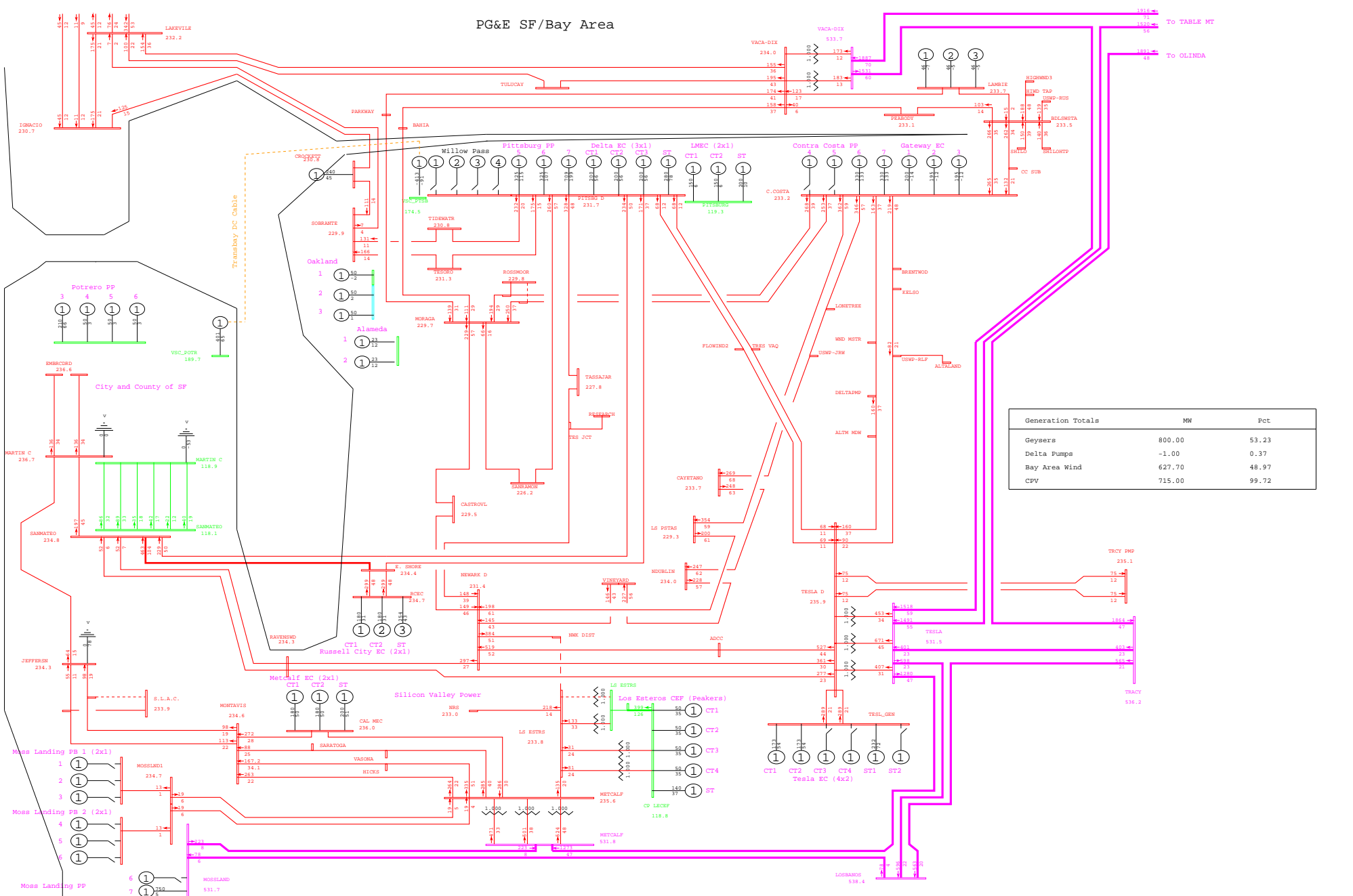


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

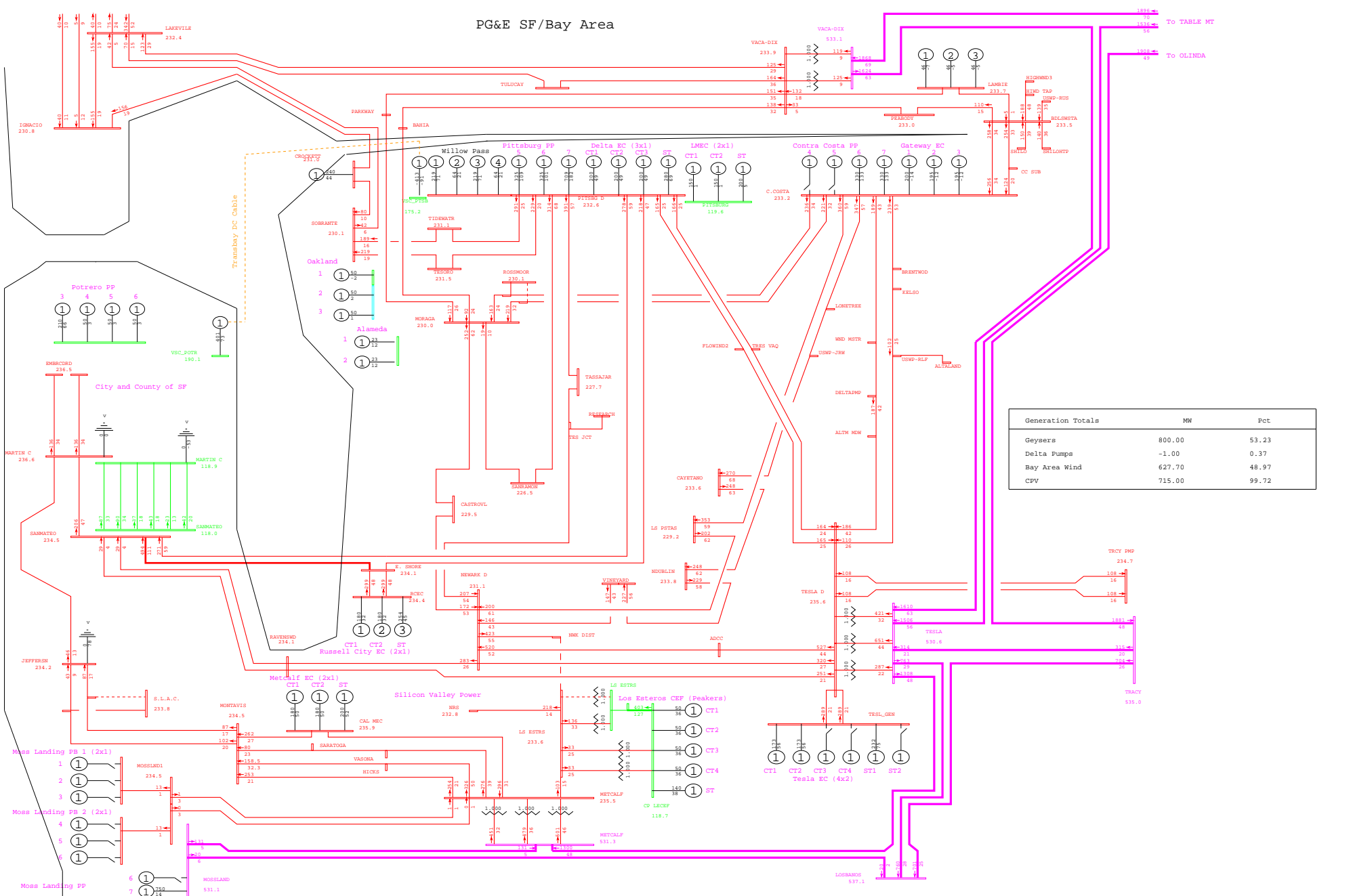
T-1 NEWARK 230/115kV #11 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 439

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:58 2008 wlopssv2-2013mrnt_pst_ptsb-447.sav

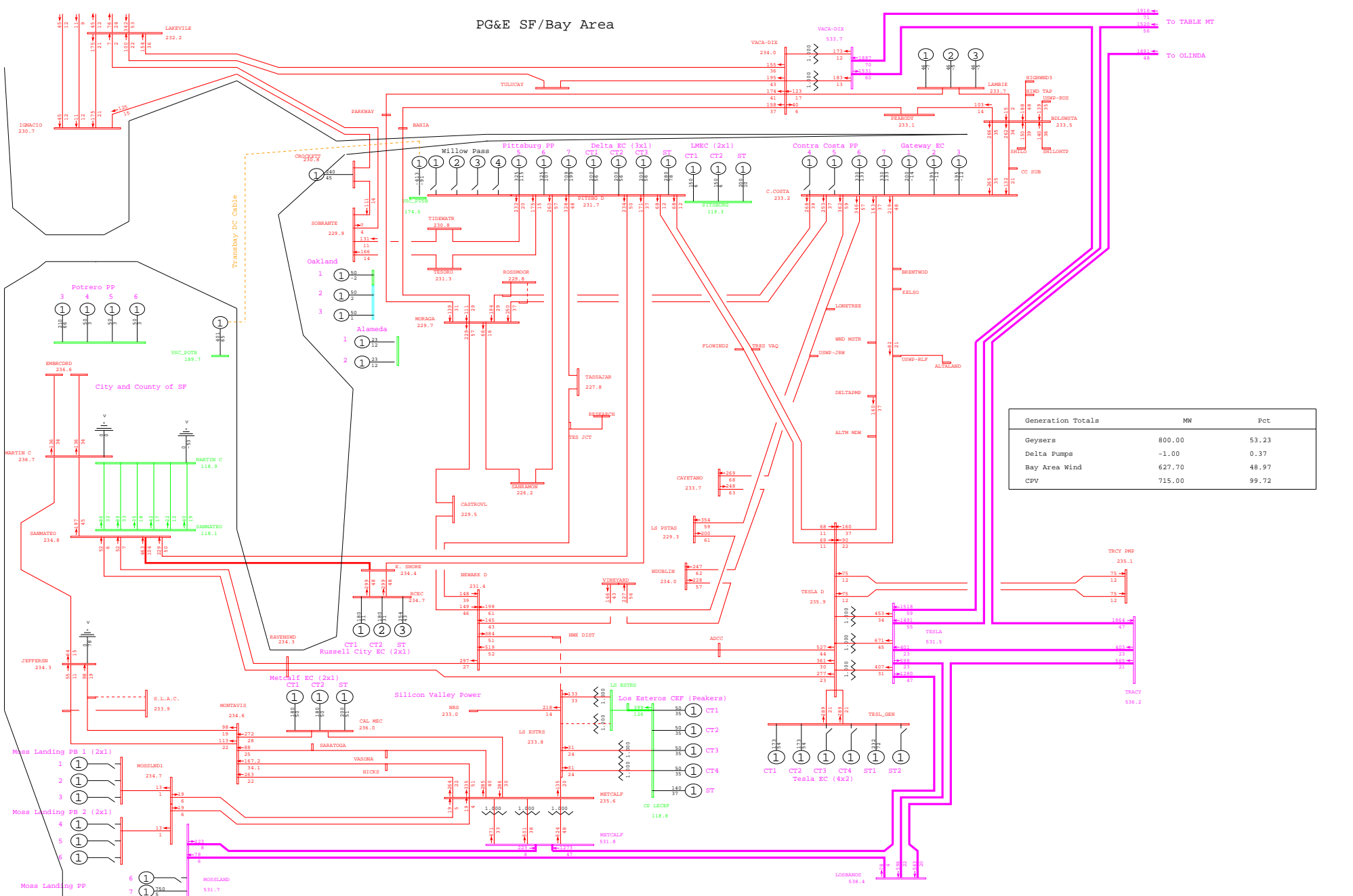


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 LOS ESTEROS 230/115kV #3 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 447

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:53:10 2008 wlopssv2-2013mrnt_pre_ptsb-448.sav

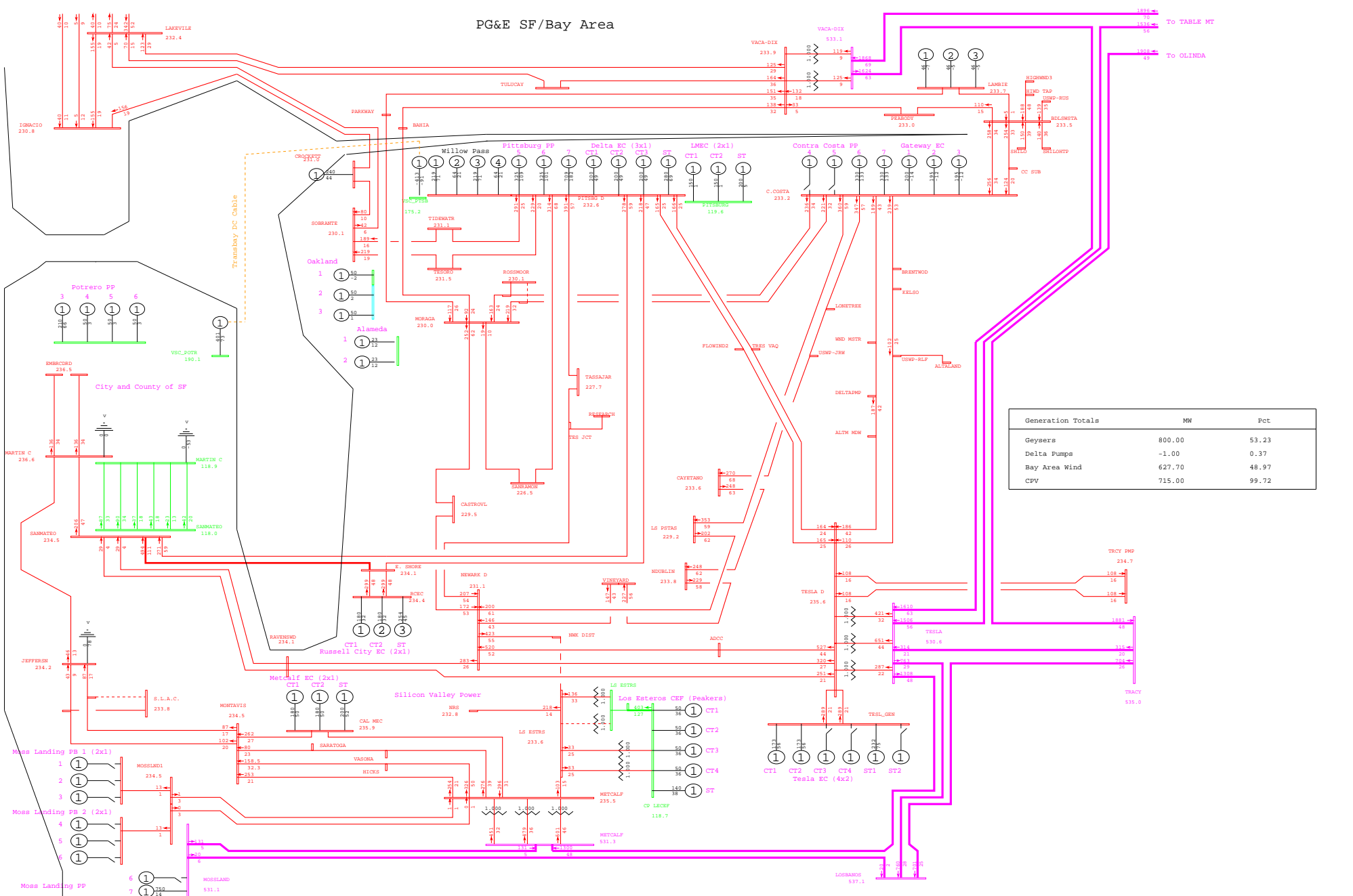


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 LOS ESTEROS 230/115kV #4 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 448

MW/% rate
 bayarea_2013_PGE_v4.0.rtf
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:59 2008 wlopssv2-2013mrnt_pst_ptsb-448.sav

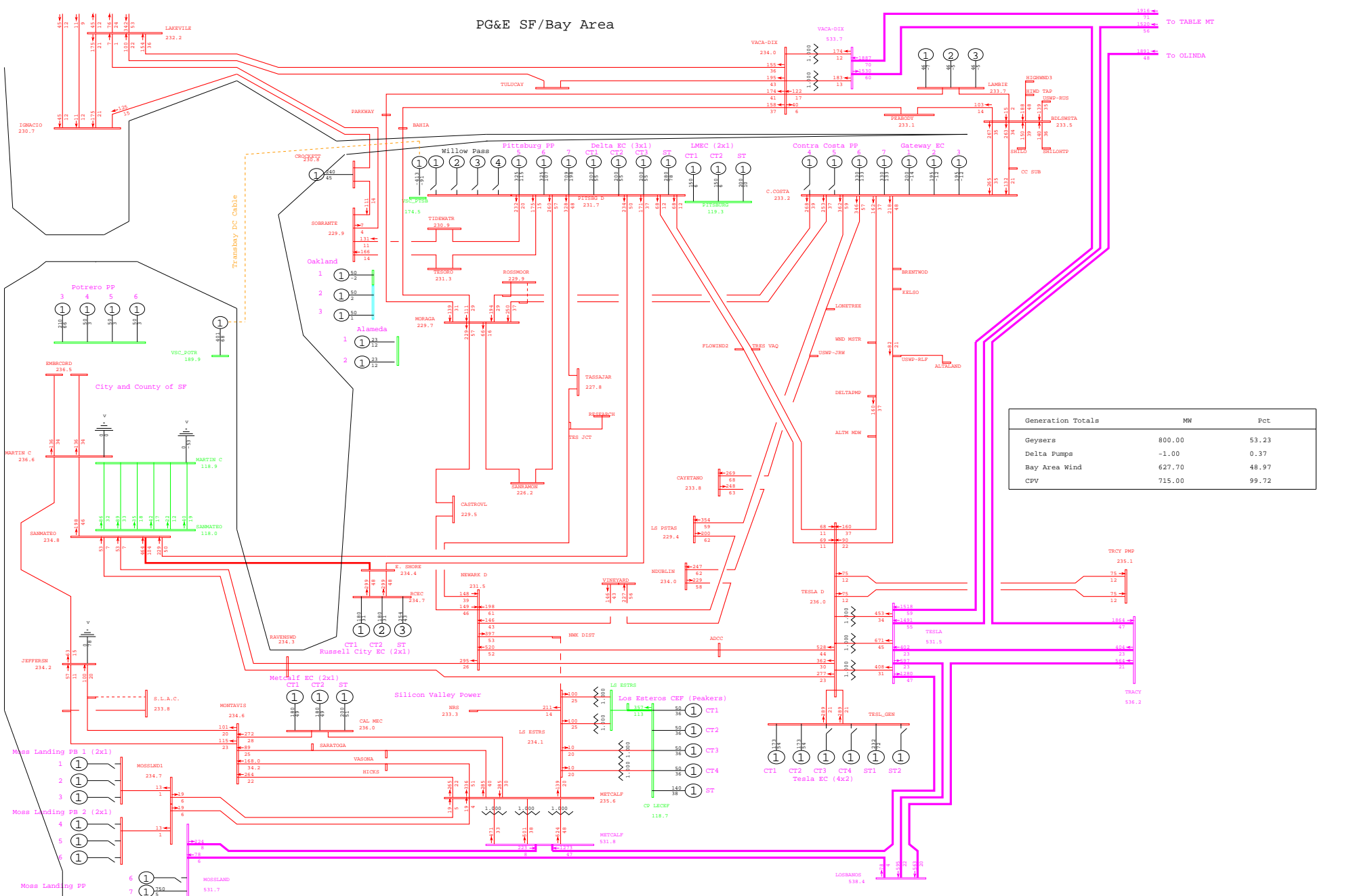


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


T-1 LOS ESTEROS 230/115kV #4 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 448

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



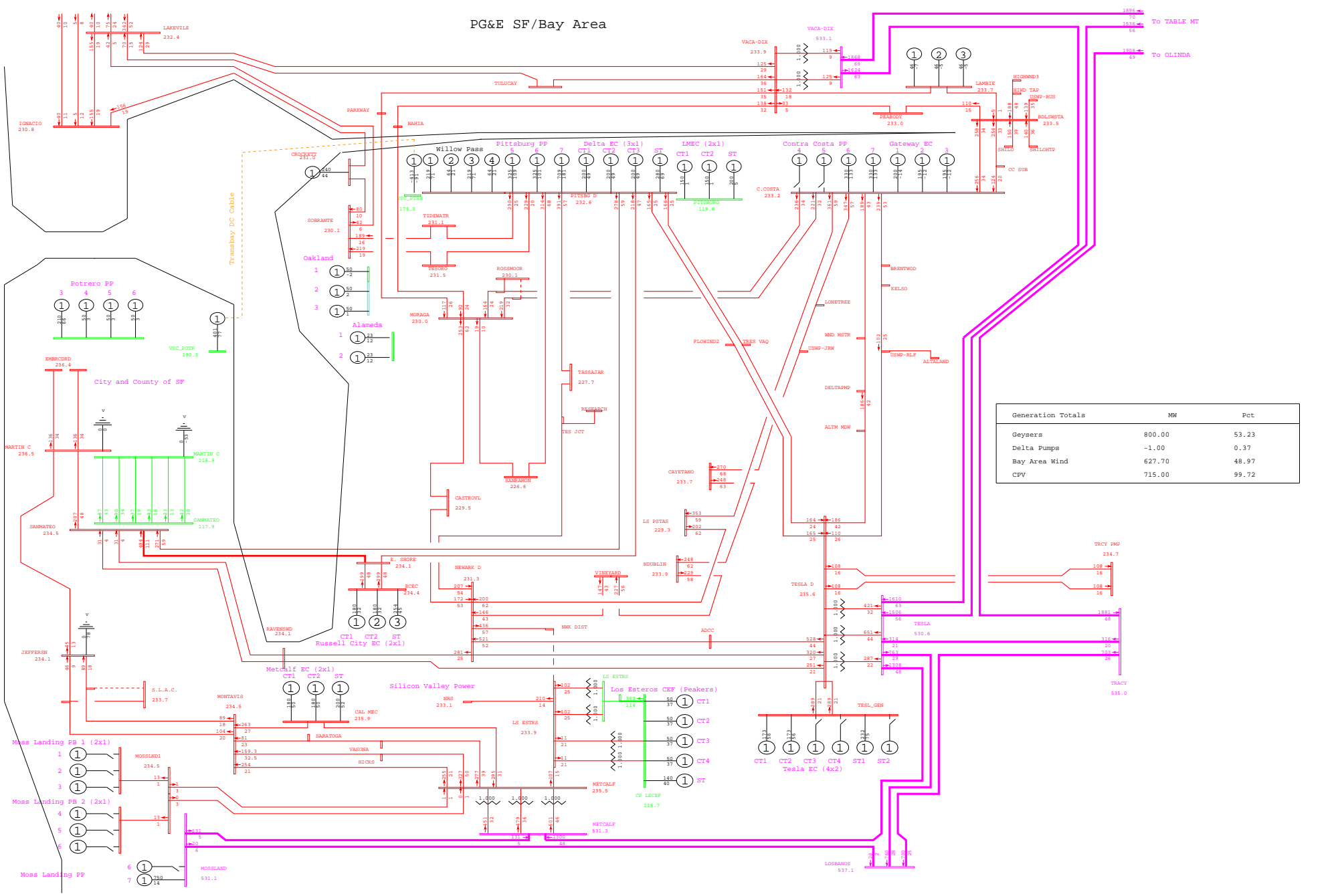
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:11 2008 wlopssv2-2013mrnt_pre_ptsb-458.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 BAIR 115/60kV #1 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 458

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:50:00 2008 wlopssv2-2013mrnt_pst_ptsb-458.sav

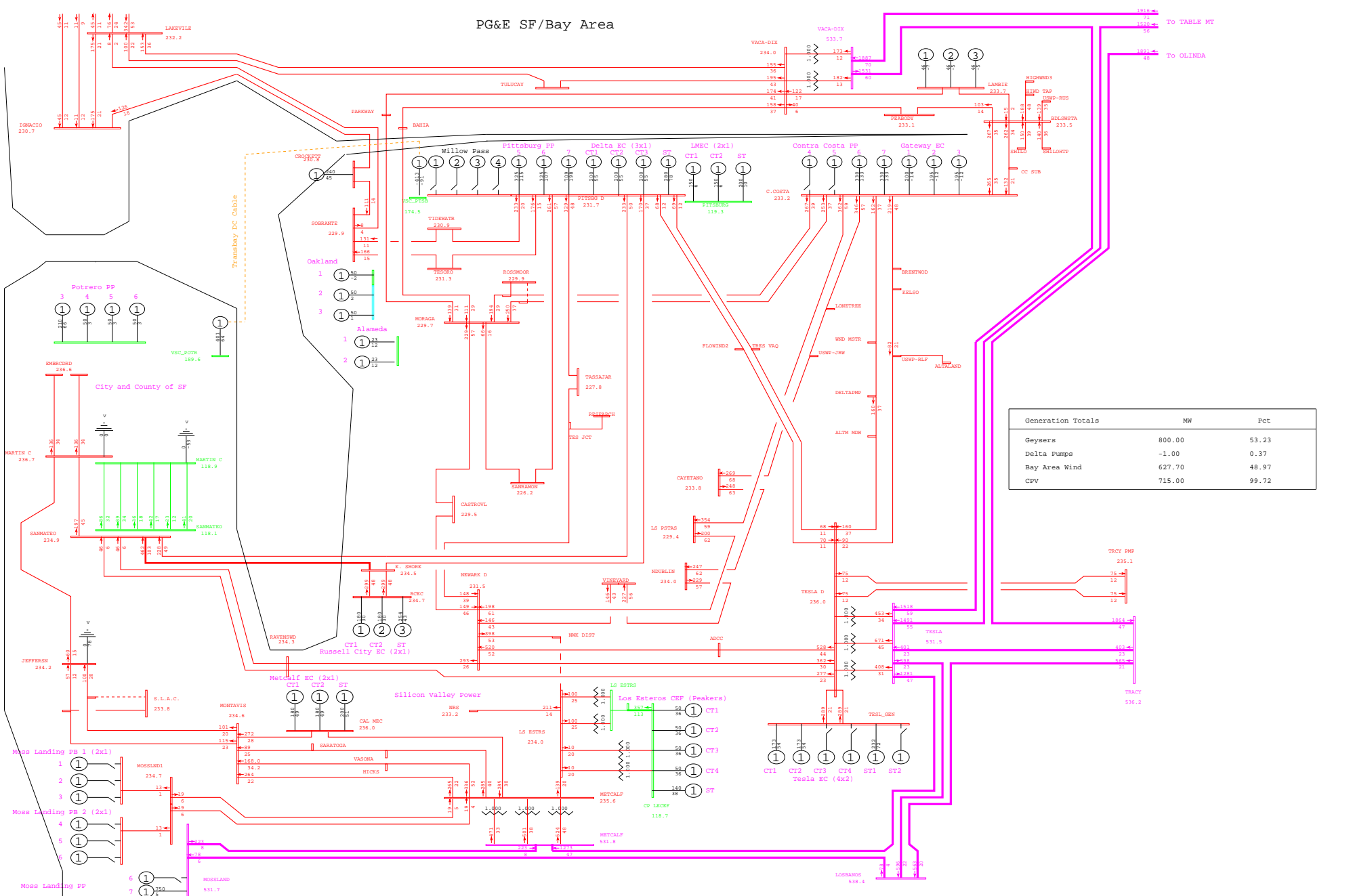


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 BAIR 115/60kV #1 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 458

MW/% rate
 bayarea_2013_PGE_v4.0.rvw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:53:12 2008 wlopssv2-2013mrnt_pre_ptsb-461.sav

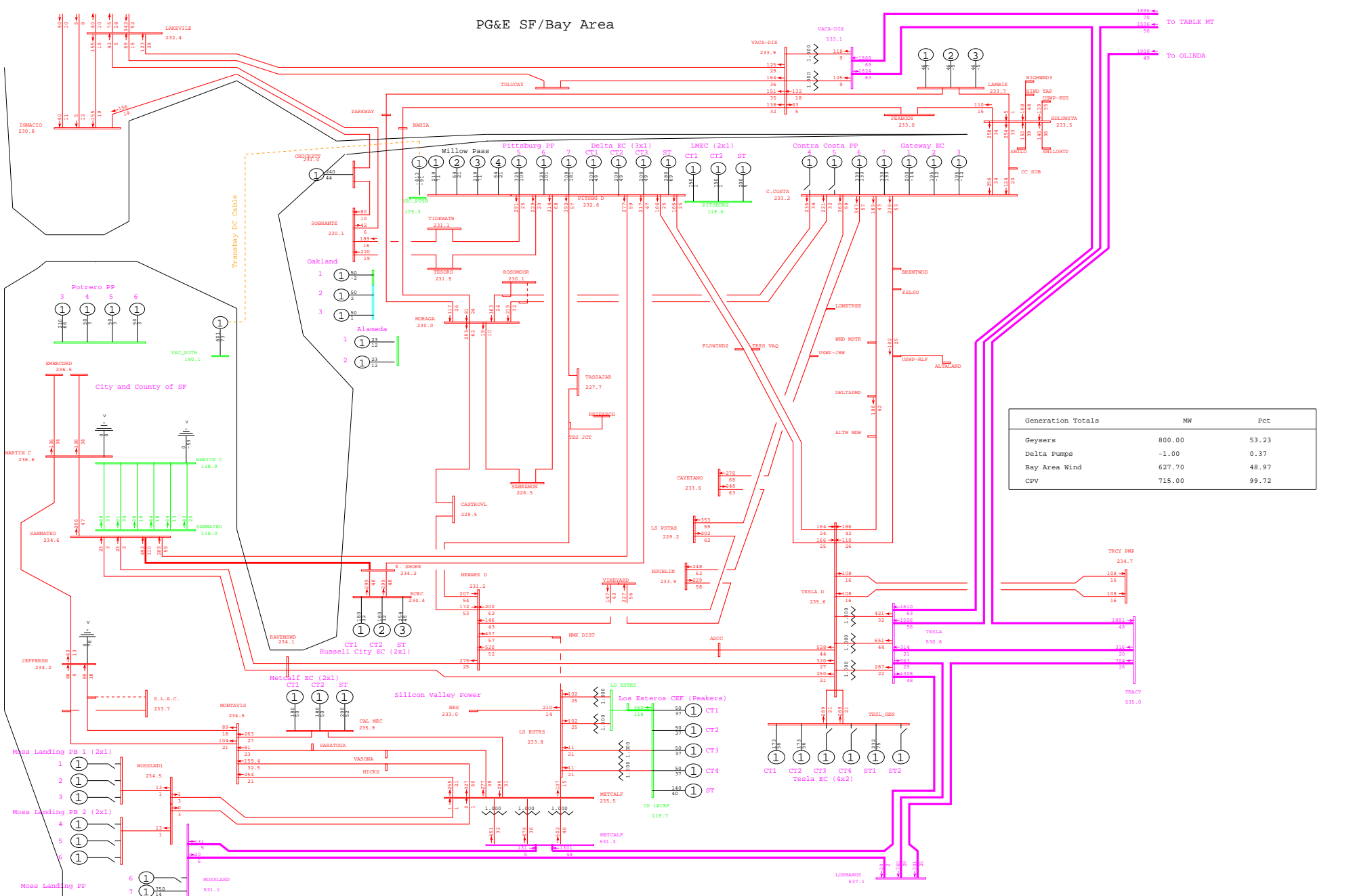


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 SAN MATEO 115/60kV #8 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 461

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:50:01 2008 wlopssv2-2013mrnt_pst_ptsb-461.sav

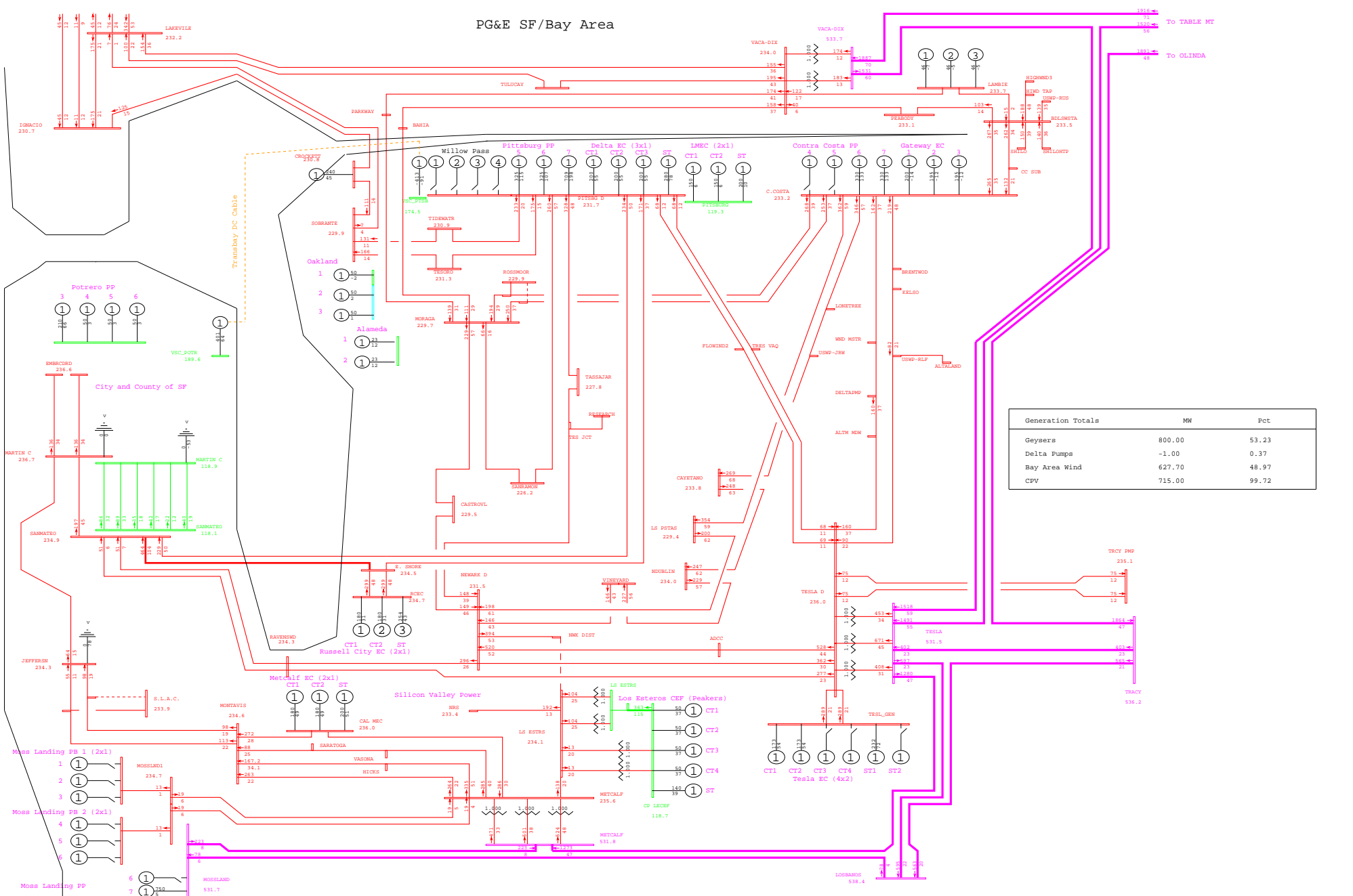


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 SAN MATEO 115/60kV #8 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 461

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:53:13 2008 wlopssv2-2013mrnt_pre_ptsb-467.sav

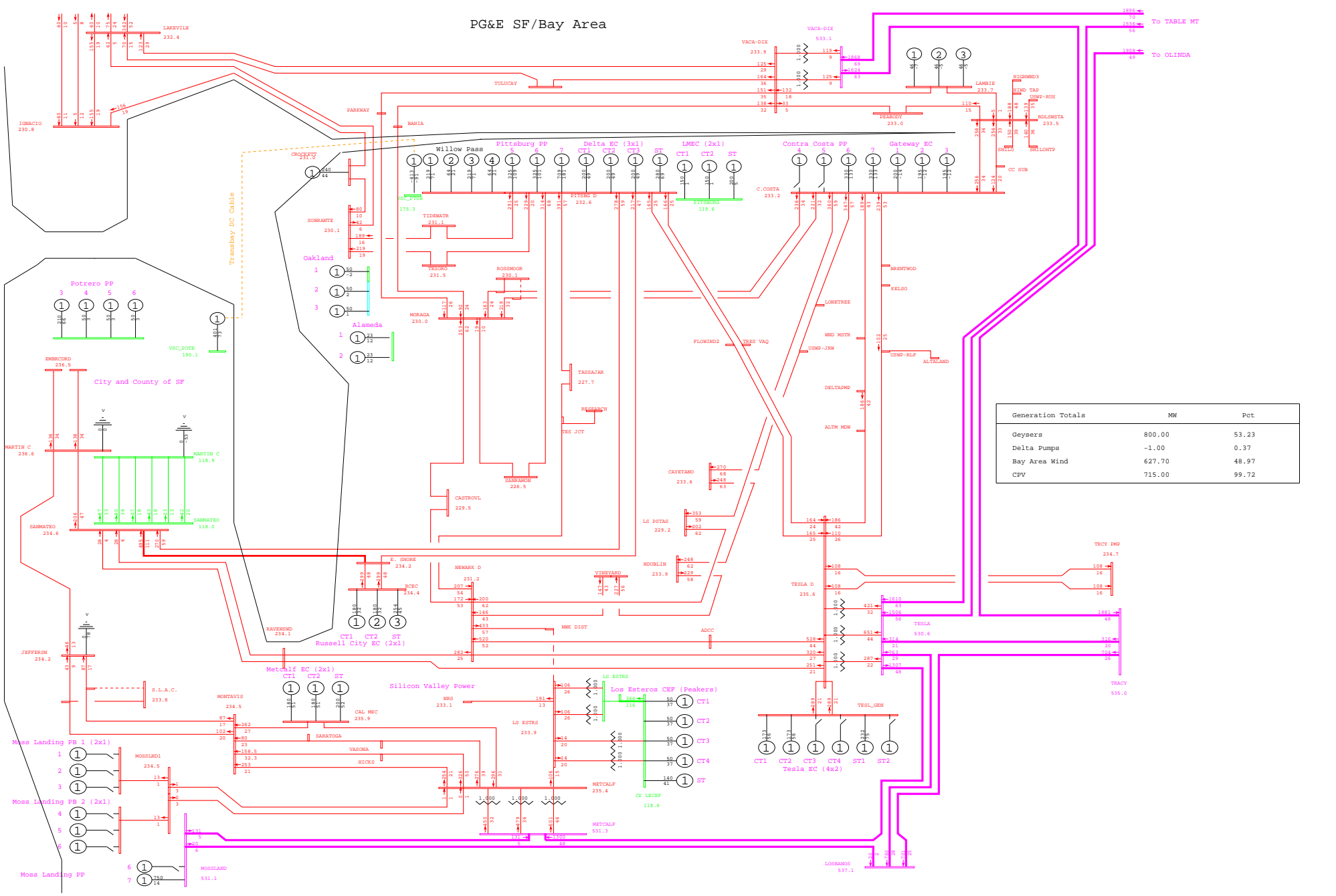


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 CSC NORTHERN 115/60kV #1 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 467

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



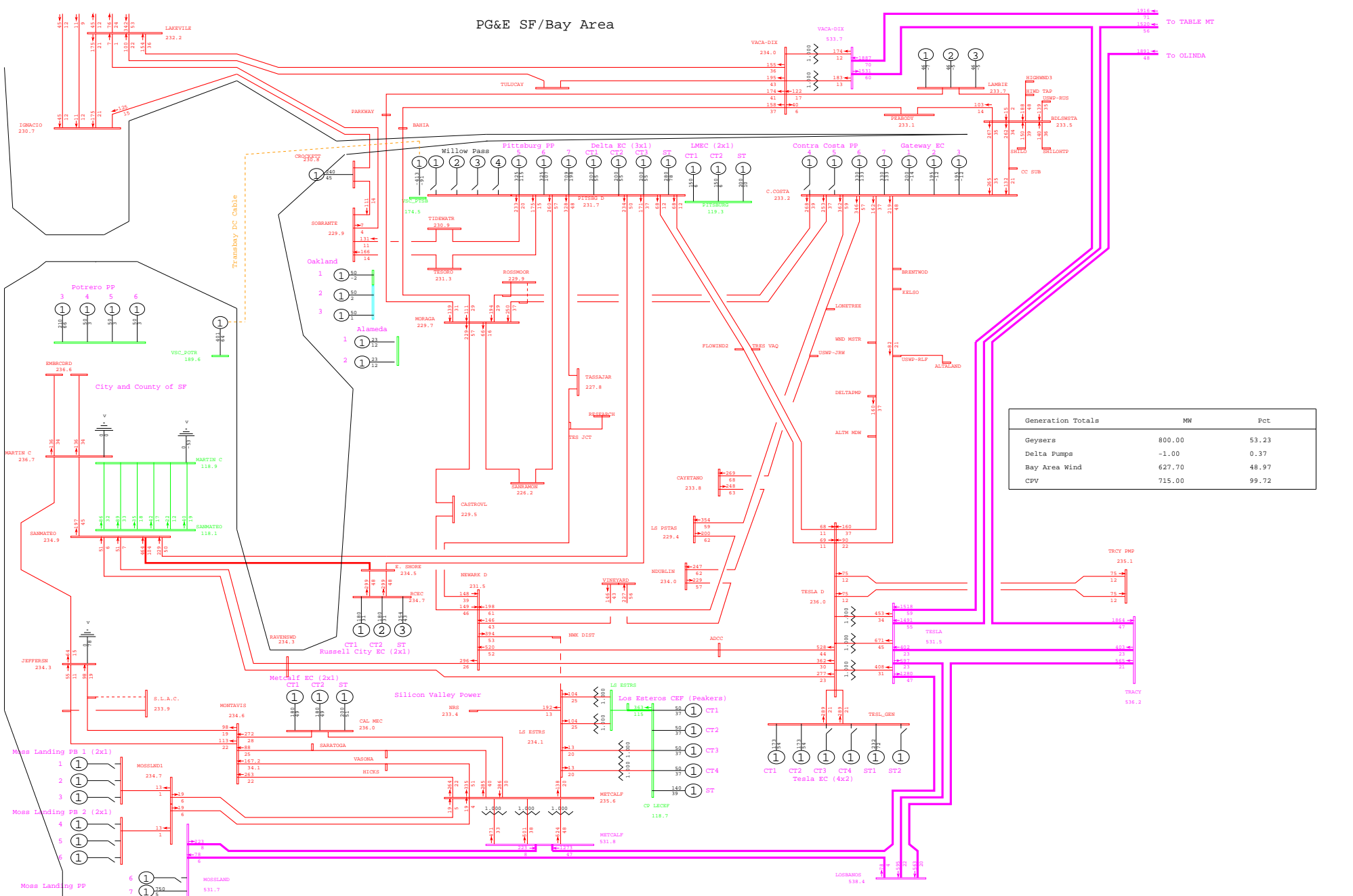
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:02 2008 wlopssv2-2013mrnt_pst_ptsb-467.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 CSC NORTHERN 115/60kV #1 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 467
 MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



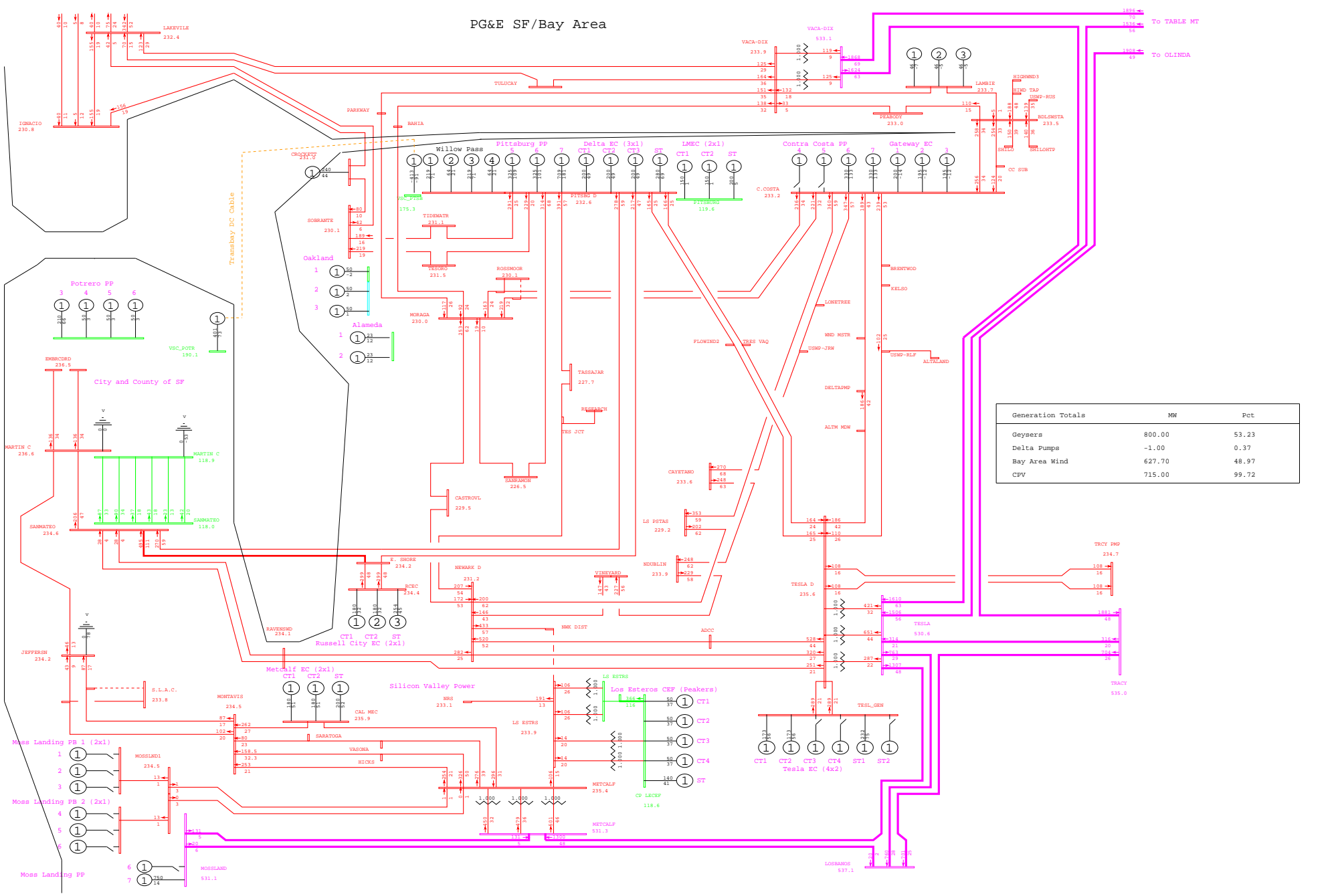
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:14 2008 wlopssv2-2013mrnt_pre_ptsb-468.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 CSC NORTHERN 115/60kV #NA XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 468
 MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



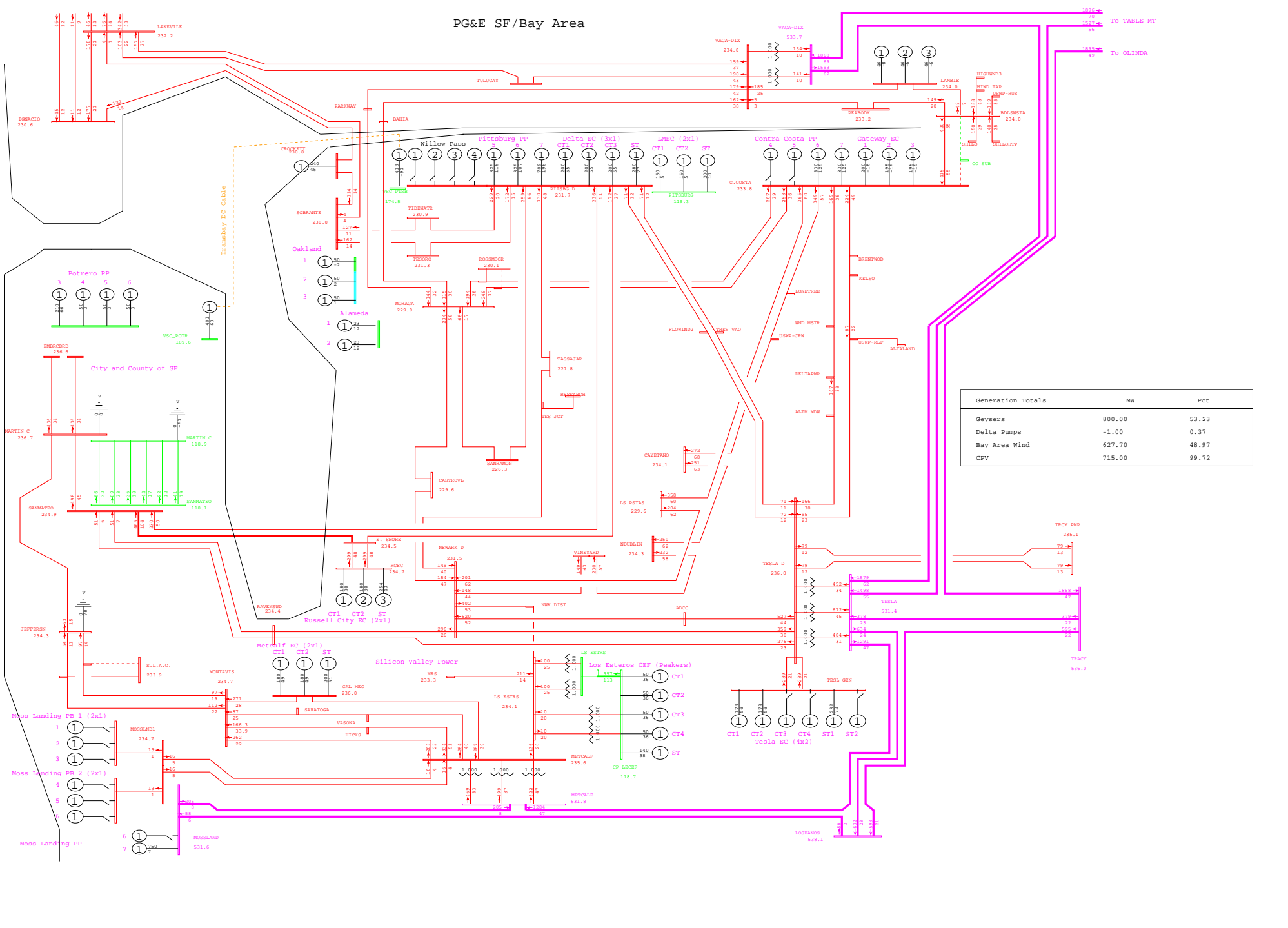
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:03 2008 wlopssv2-2013mrnt_pst_ptsb-468.sav




PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 CSC NORTHERN 115/60kV #NA XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 468
 MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:53:15 2008 wlopassv2-2013mrnt_pre_ptsb-480.sav

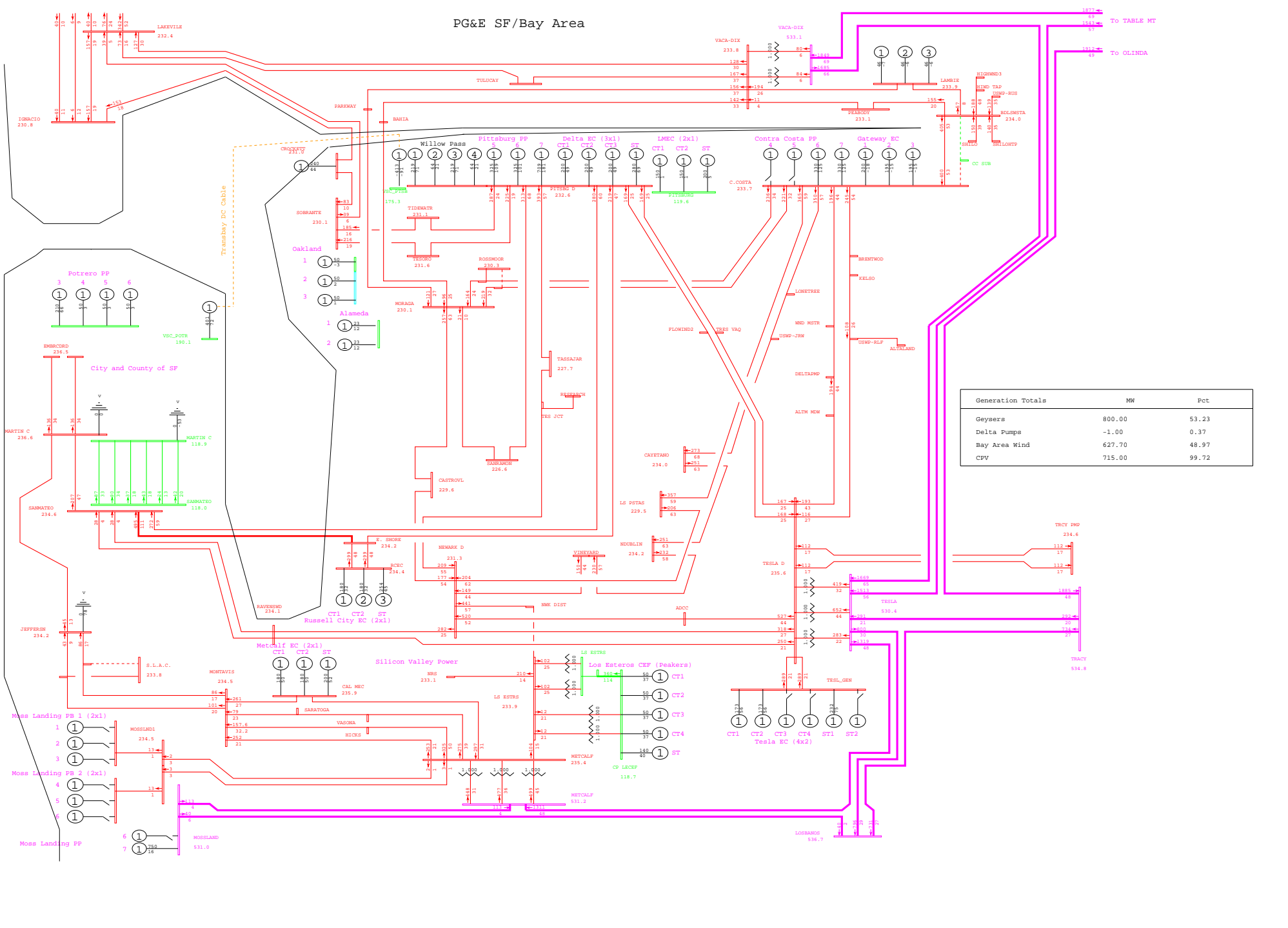


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 CONTRA COSTA SUB - COCO&BIRDS LANDING - CONTRA COSTA SUB 230kV LINES
 wlopassv2.pfp, STEADY STATE, CASE NUMBER 480

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:50:04 2008 wloppsv2-2013mrnt_pst_ptsb-480.sav

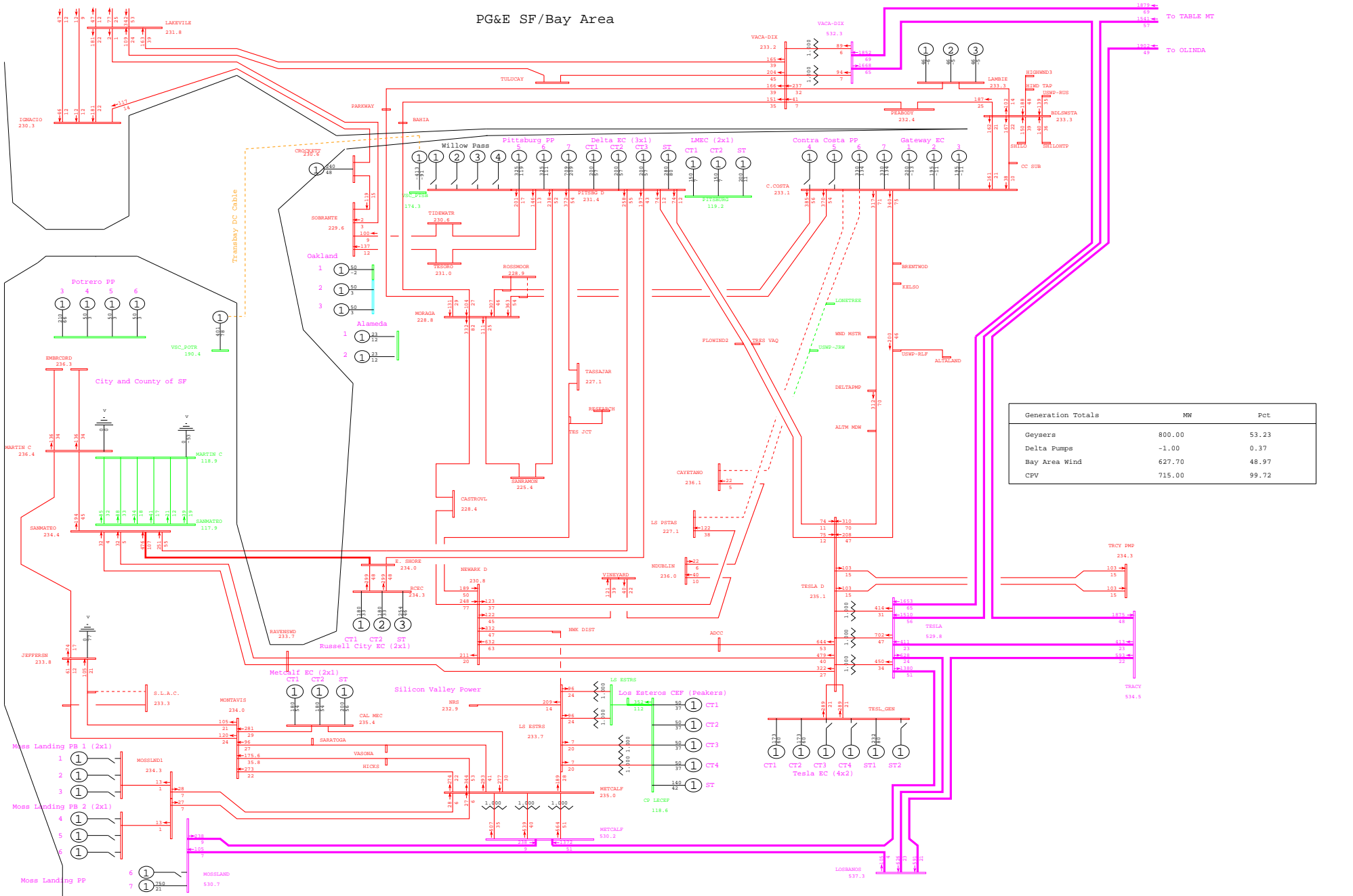


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 CONTRA COSTA SUB - COCO&BIRDS LANDING - CONTRA COSTA SUB 230kV LINES
 wloppsv2.pfp, STEADY STATE, CASE NUMBER 480

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:53:16 2008 wlopssv2-2013mrnt_pre_ptsb-482.sav

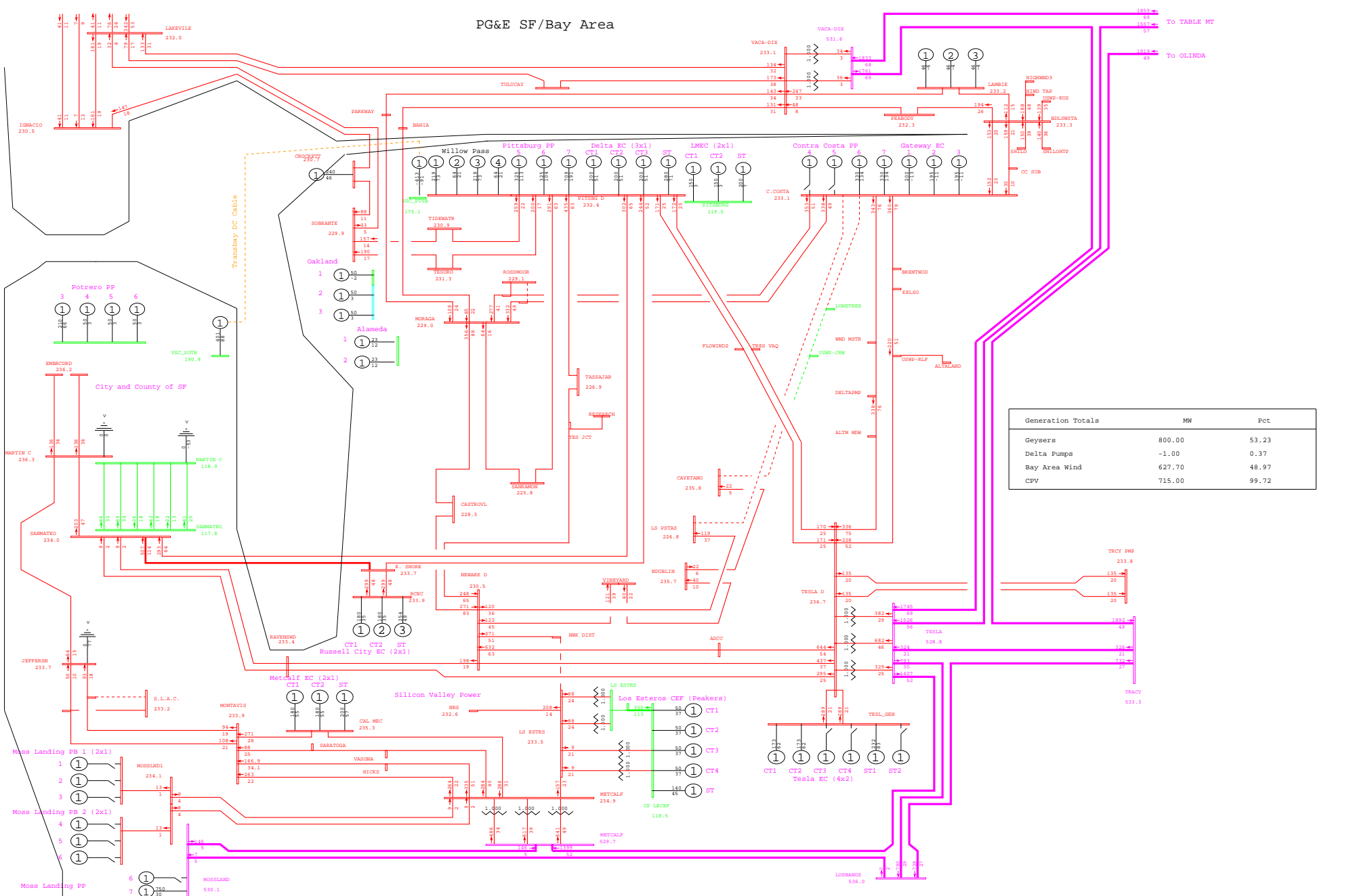


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 CONTRA COSTA - LOS PSTAS & CONTRA COSTA - CAYETANO 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 482

MW/% rate
 bayarea_2013_PGE_v4.0r.w
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:50:06 2008 wlopssv2-2013mrnt_pst_ptsb-482.sav

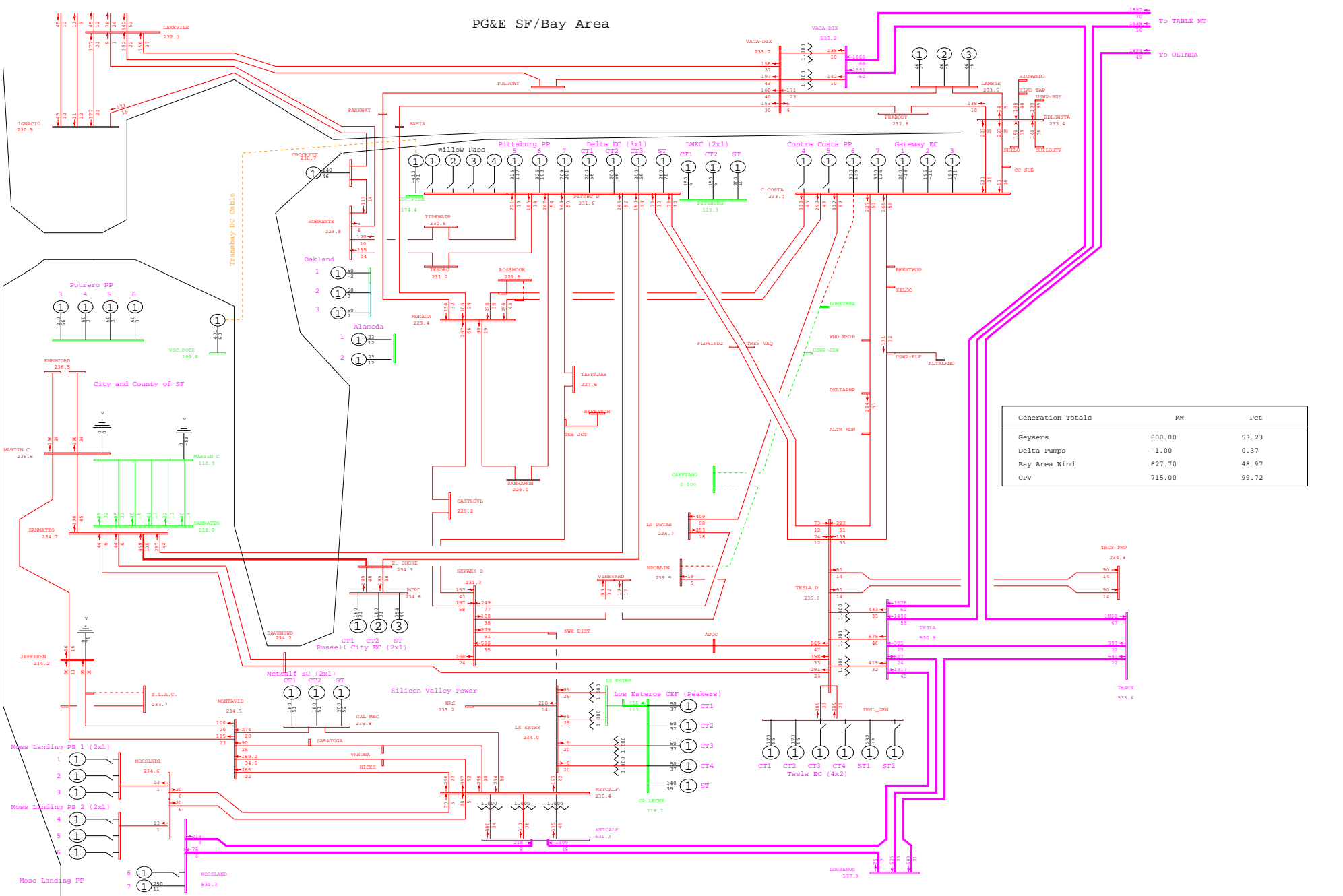


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 CONTRA COSTA - LOS PSTAS & CONTRA COSTA - CAYETANO 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 482

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:53:17 2008 wlopssv2-2013mrnt_pre_ptsb-483.sav

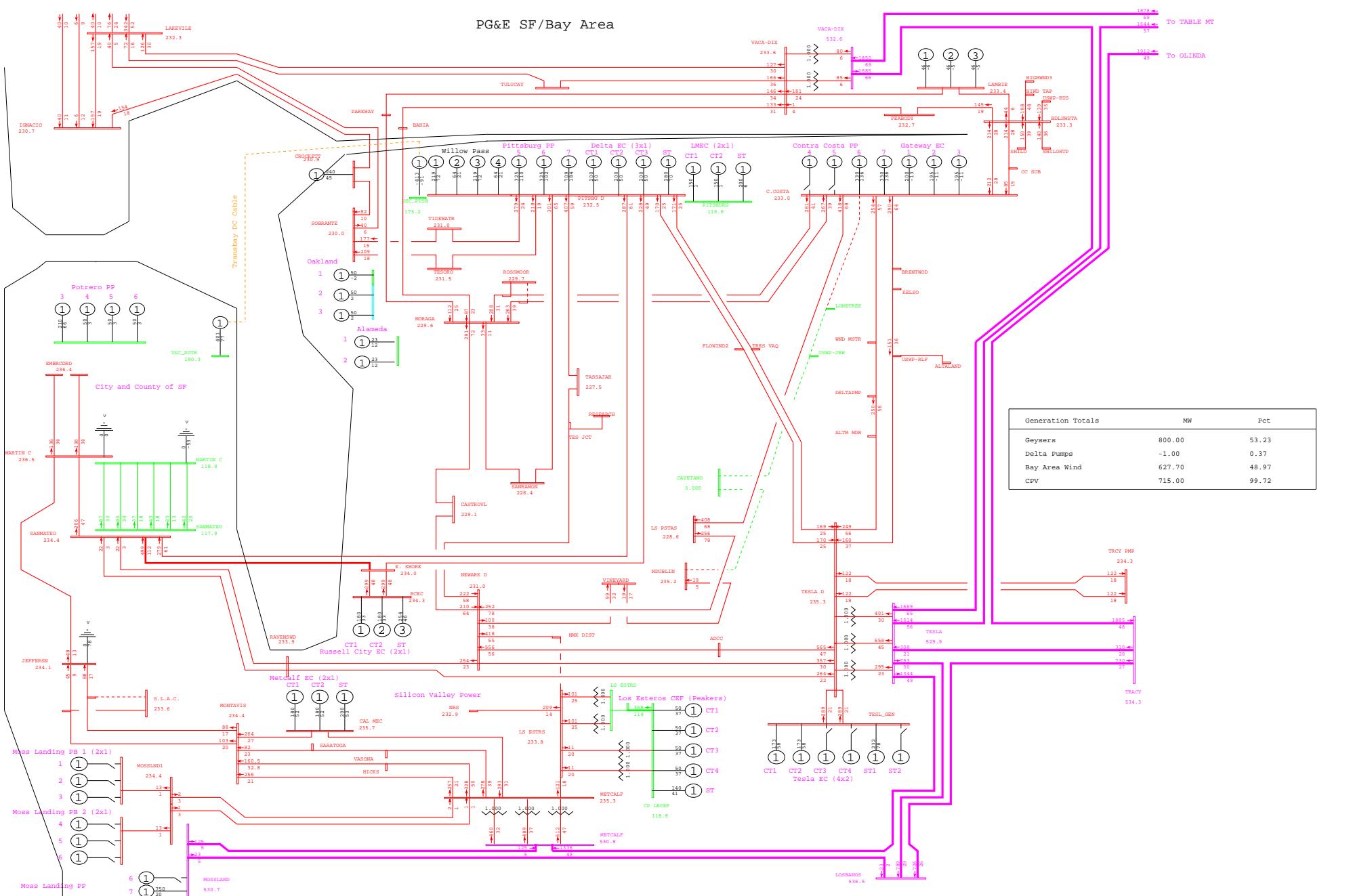


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 CAYETANO - NDUBLIN & CONTRA COSTA - CAYETANO 230KV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 483

MW/% rate
 bayarea_2013_PGE_v4.cfw
 Rating = 2

PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

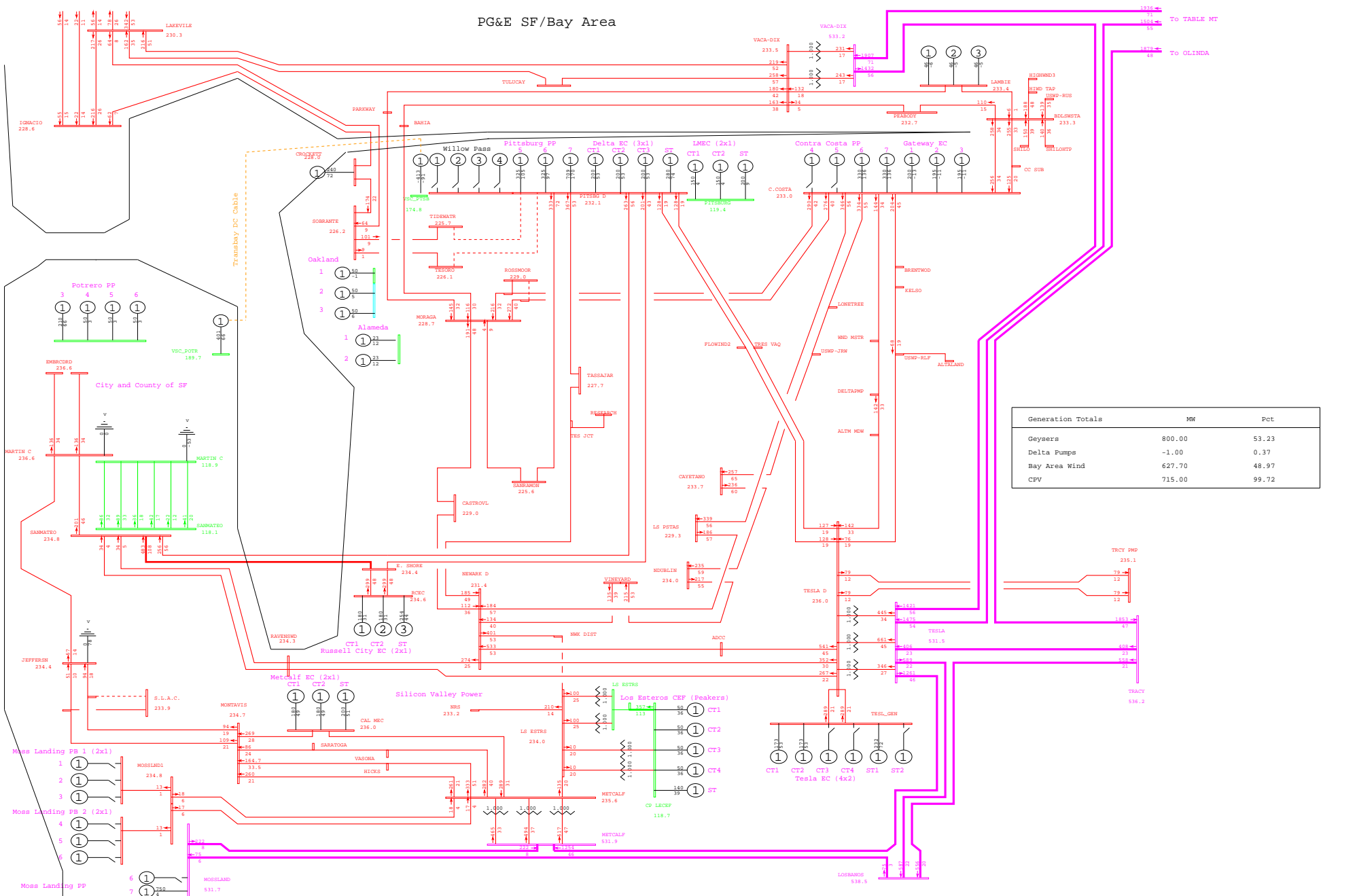
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:07 2008 wlopssv2-2013mrnt_pst_ptsb-483.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 CAYETANO - NDUBLIN & CONTRA COSTA - CAYETANO 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 483
 MW/% rate
 bayarea_2013_PGE_v4.ctm
 Rating = 2

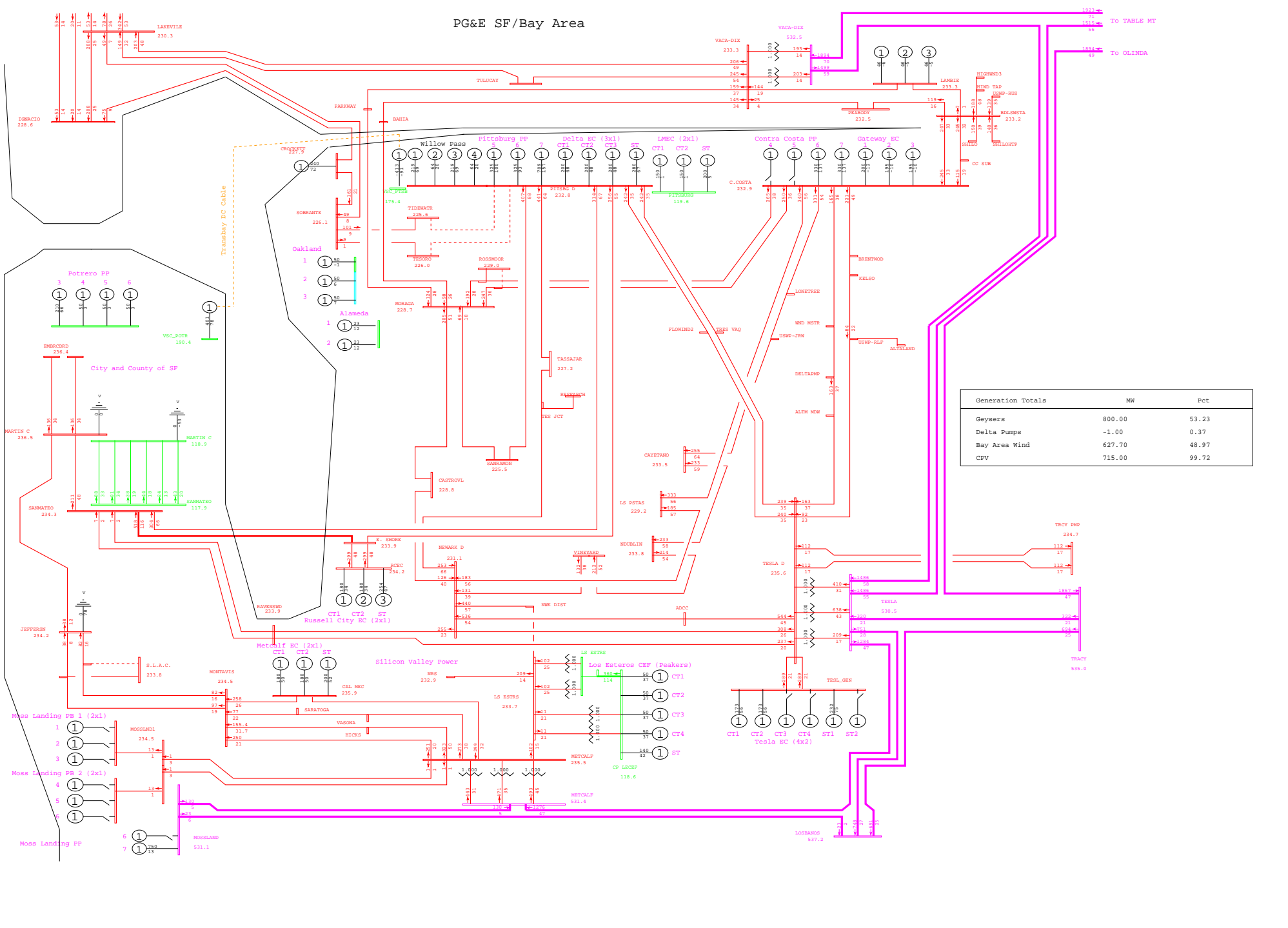
PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72



PG&E SF/Bay Area



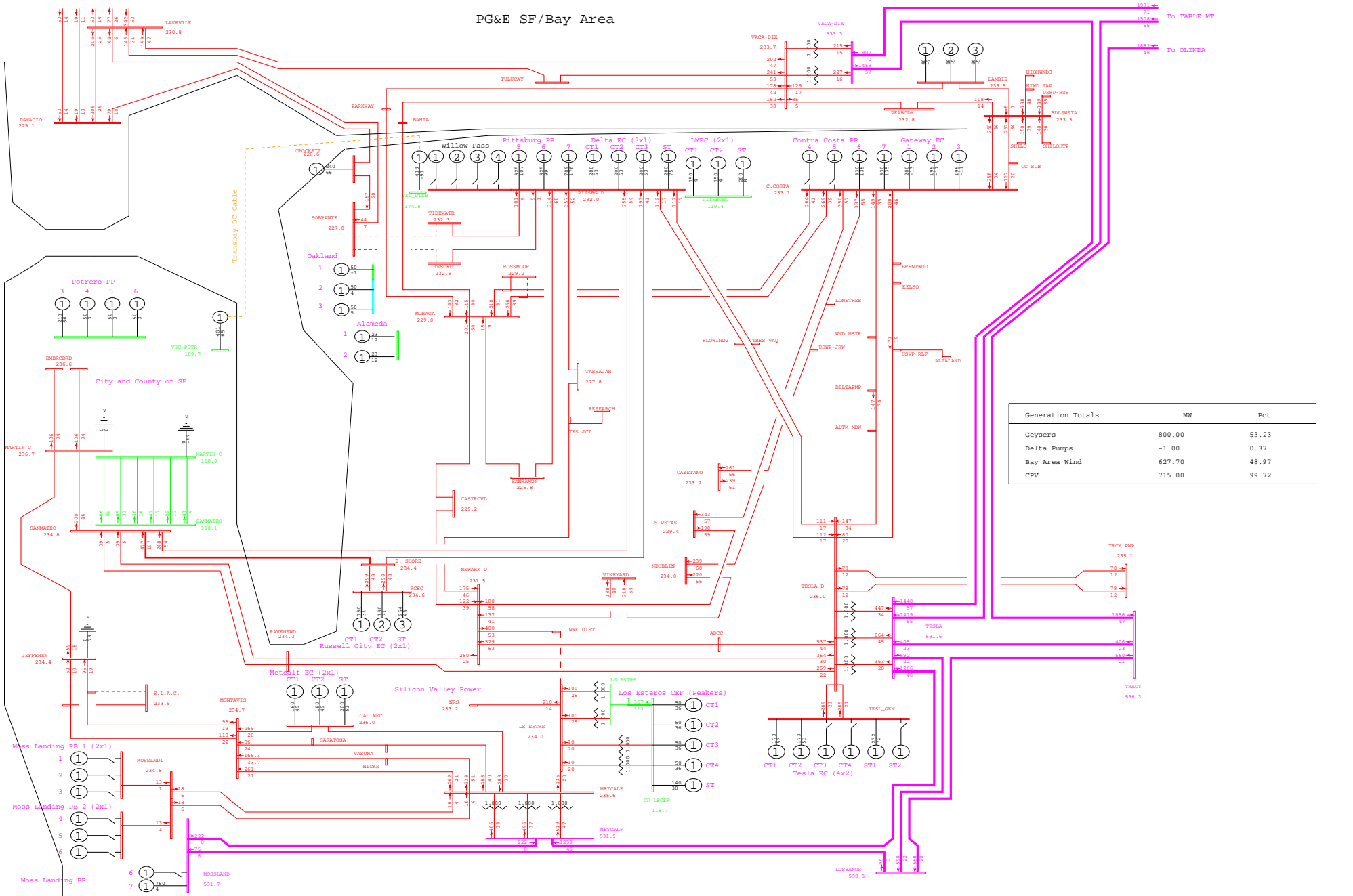
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:08 2008 wlopssv2-2013mrnt_pst_ptsb-484.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 PITTSBURG - TESORO & PITTSBURG - TIDEWATER 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 484
 MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



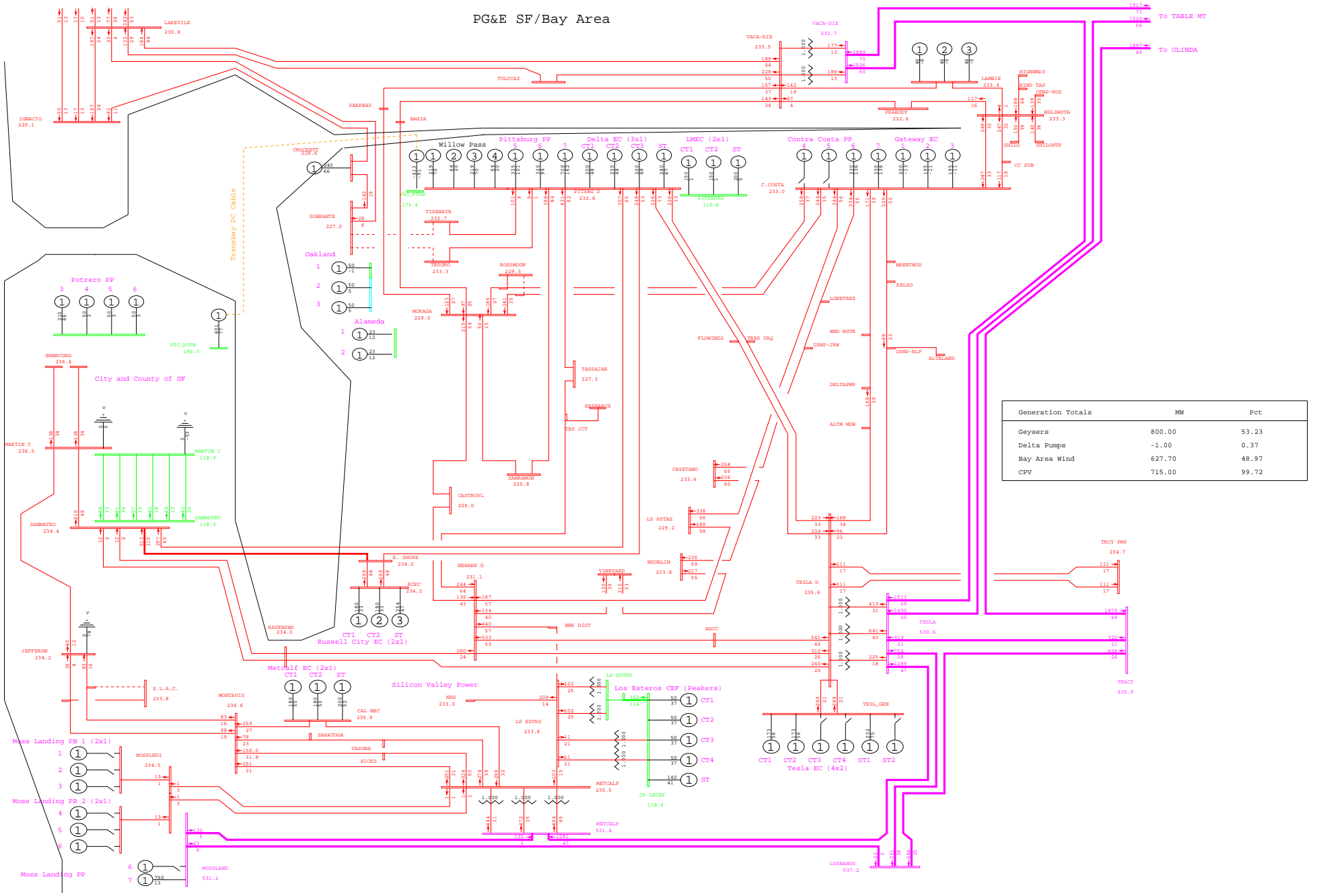
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:19 2008 wlopssv2-2013mrnt_pre_ptsb-485.sav



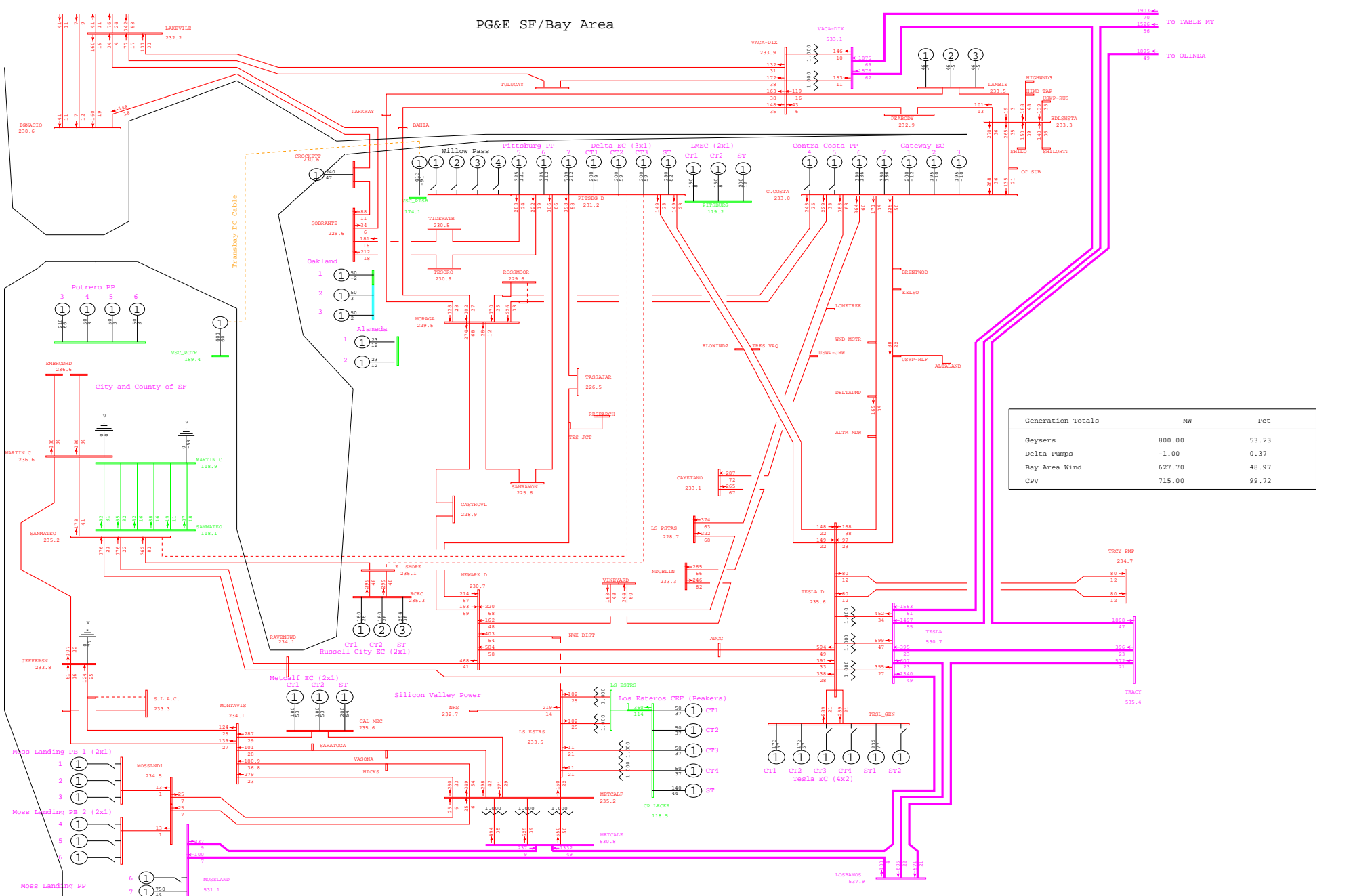
PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 TESORO - SOBRANTE & TIDEWATER - SOBRANTE 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 485
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



PG&E SF/Bay Area



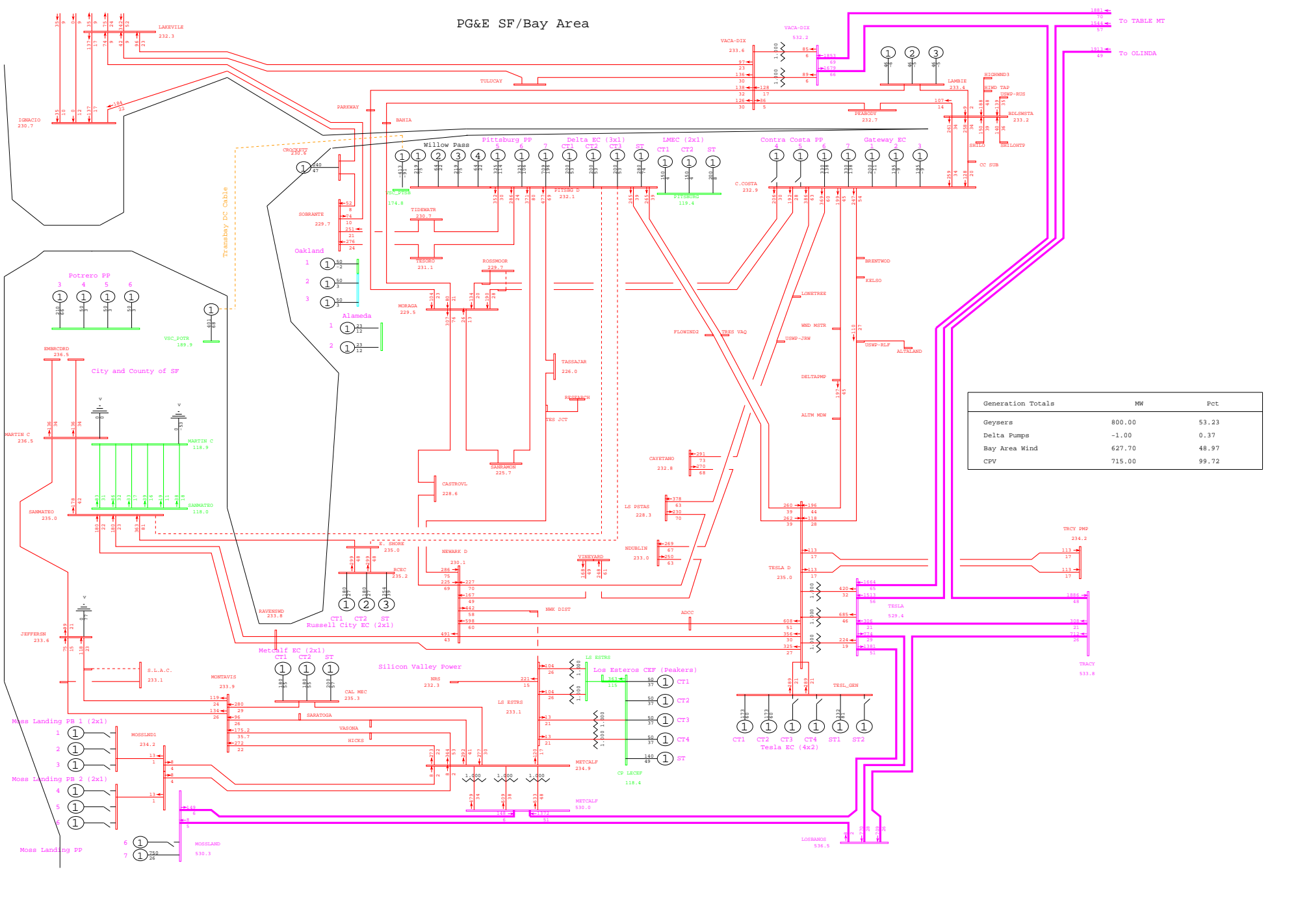
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:20 2008 wlopssv2-2013mrnt_pre_ptsb-486.sav



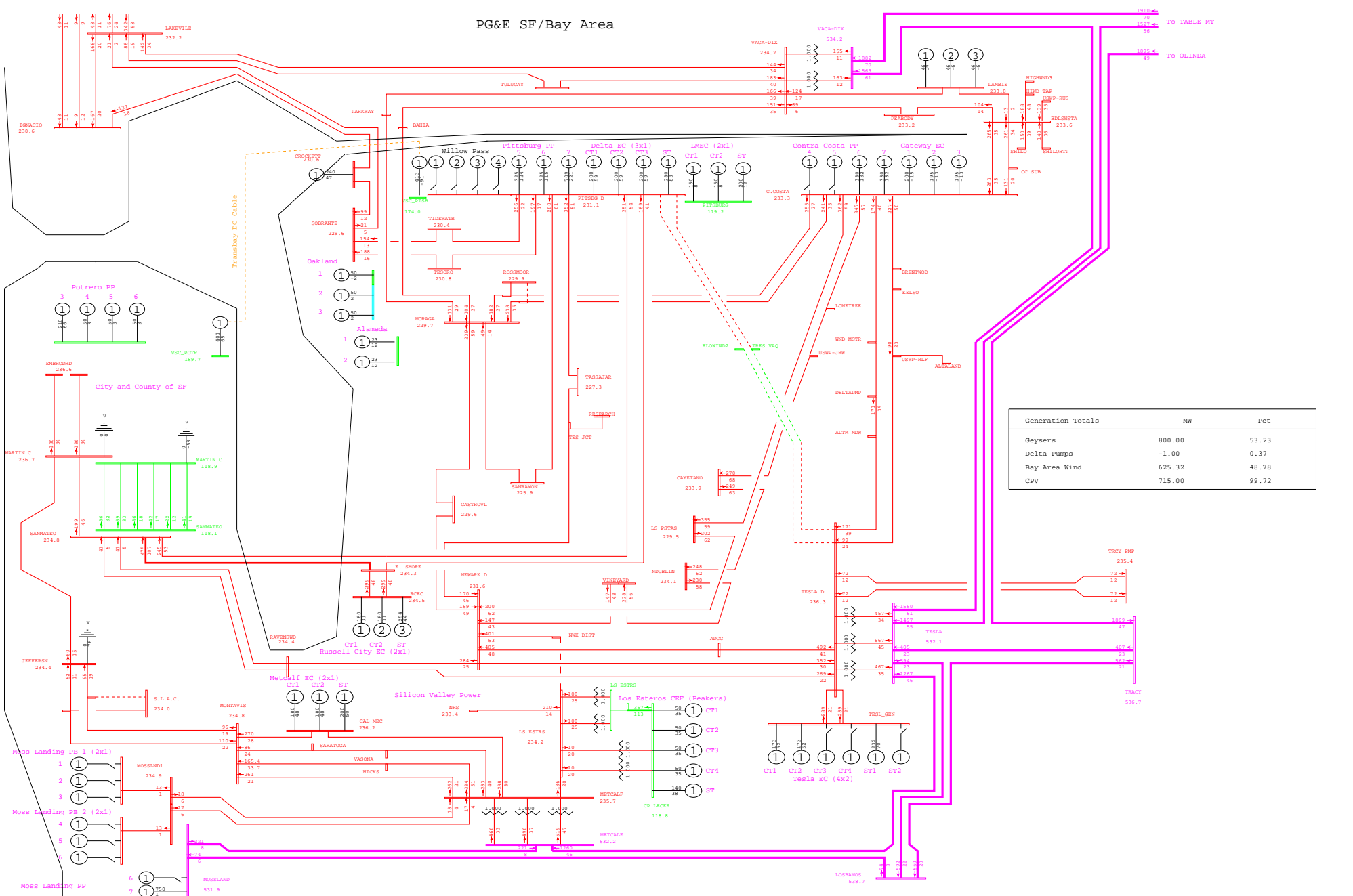
PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 PITTSBURG - SANMATEO & PITTSBURG - EAST SHORE 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 486
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2


PG&E SF/Bay Area



PG&E SF/Bay Area



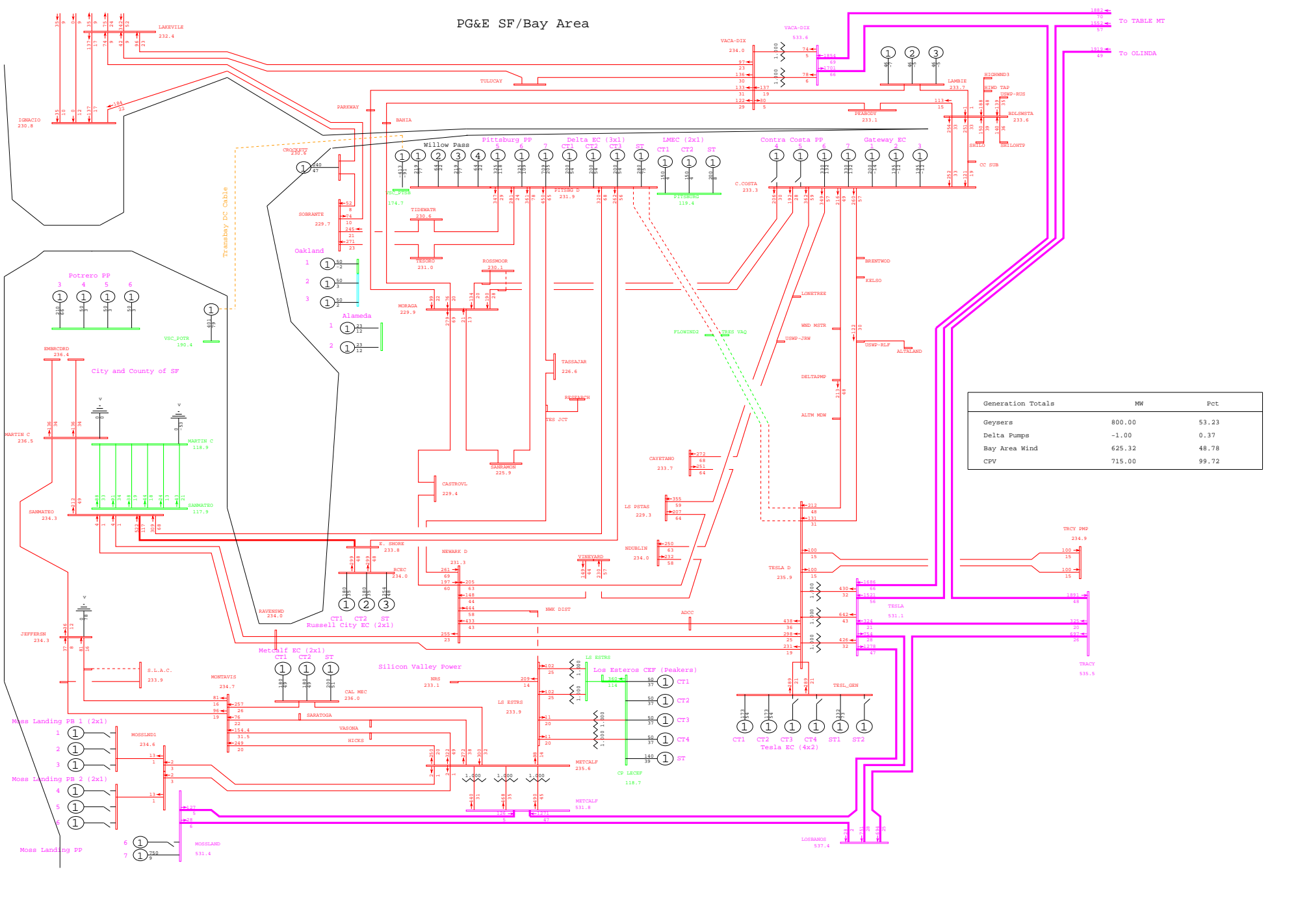
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:21 2008 wlopssv2-2013mrnt_pre_ptsb-487.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 PITTSBURG - TESLA #1 & #2 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 487

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:50:11 2008 wlopssv2-2013mrnt_pst_ptsb-487.sav

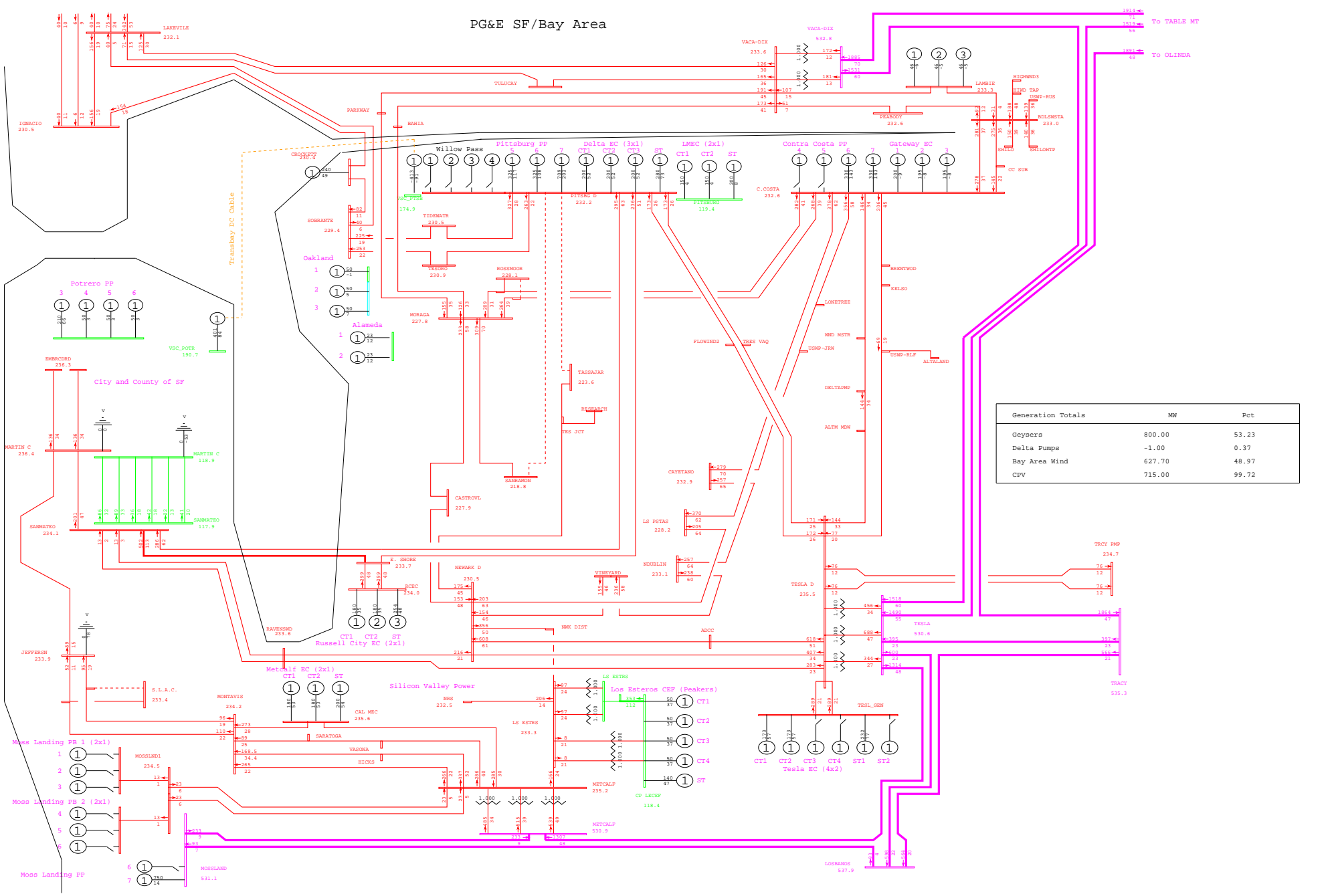


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 PITTSBURG - TESLA #1 & #2 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 487

MW/% rate
 bayarea_2013_PGE_v4.0.rtf
 Rating = 2

PG&E SF/Bay Area



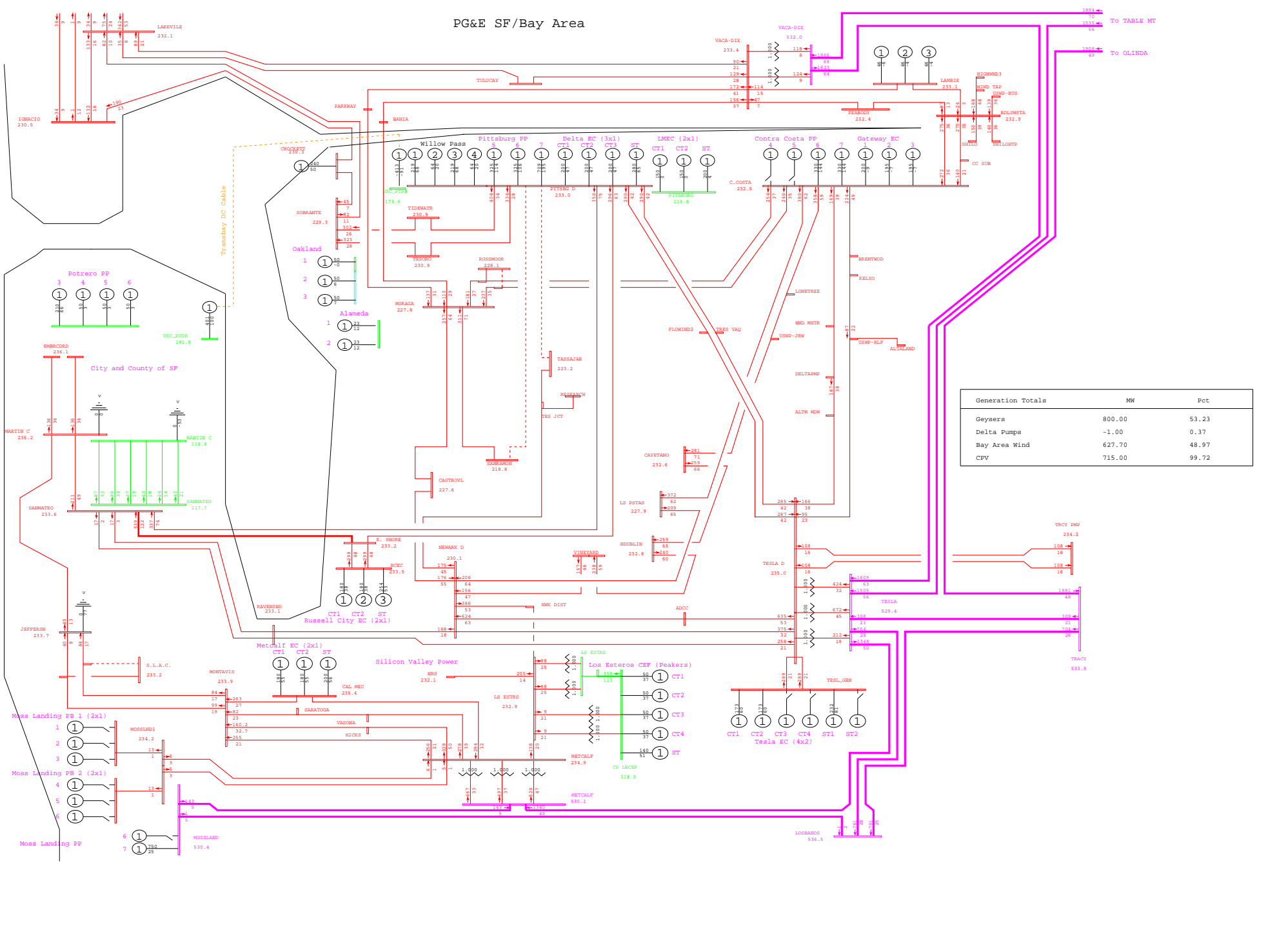
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:21 2008 wlopssv2-2013mrnt_pre_ptsb-488.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 PITTSBURG - TASSAJARA & PITTSBURG - SAN RAMON 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 488

MW/% rate
 bayarea_2013_PGE_v4.0.rtf
 Rating = 2

PG&E SF/Bay Area



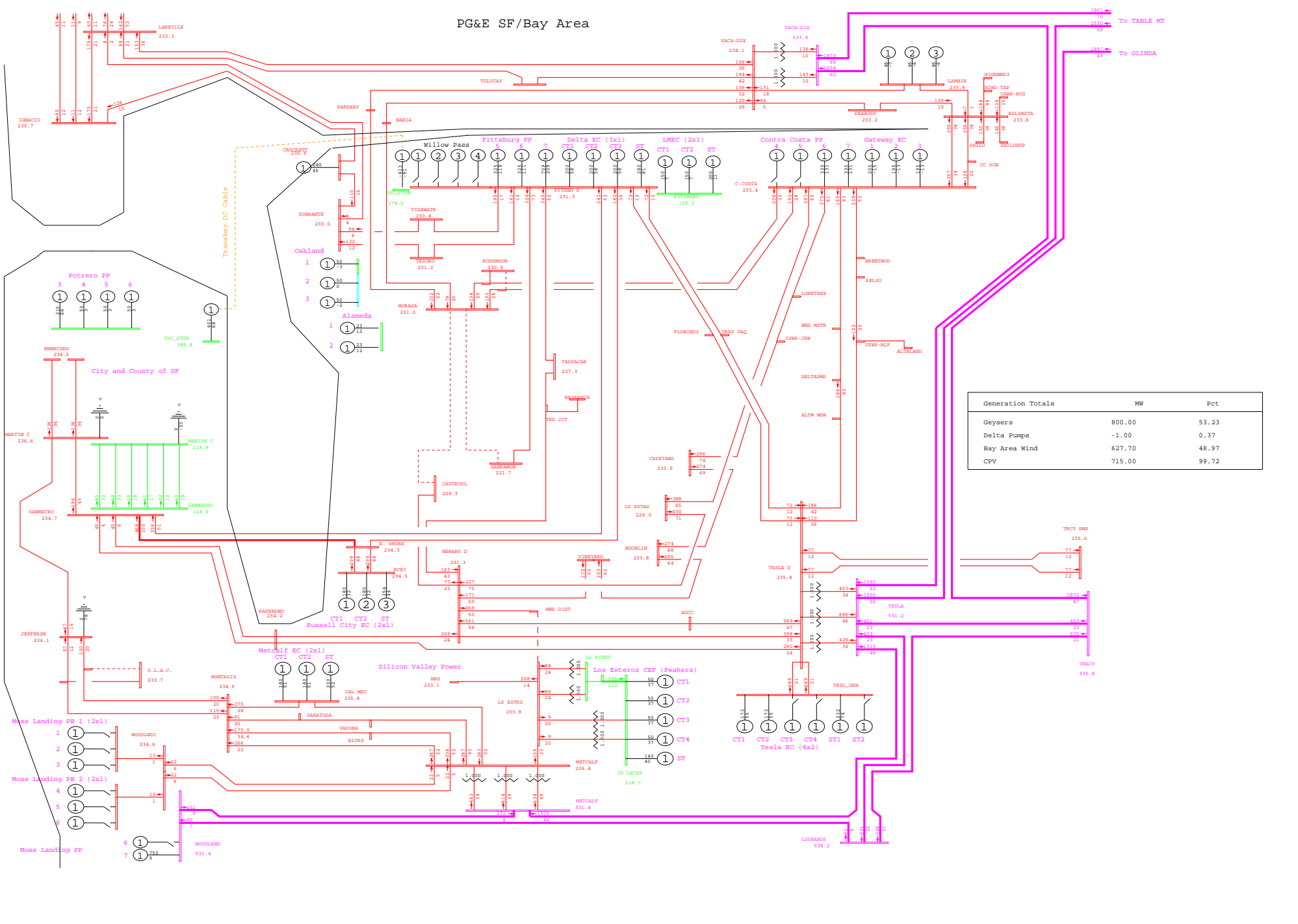
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:12 2008 wlopssv2-2013mrnt_pst_ptsb-488.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 PITTSBURG - TASSAJARA & PITTSBURG - SAN RAMON 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 488

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



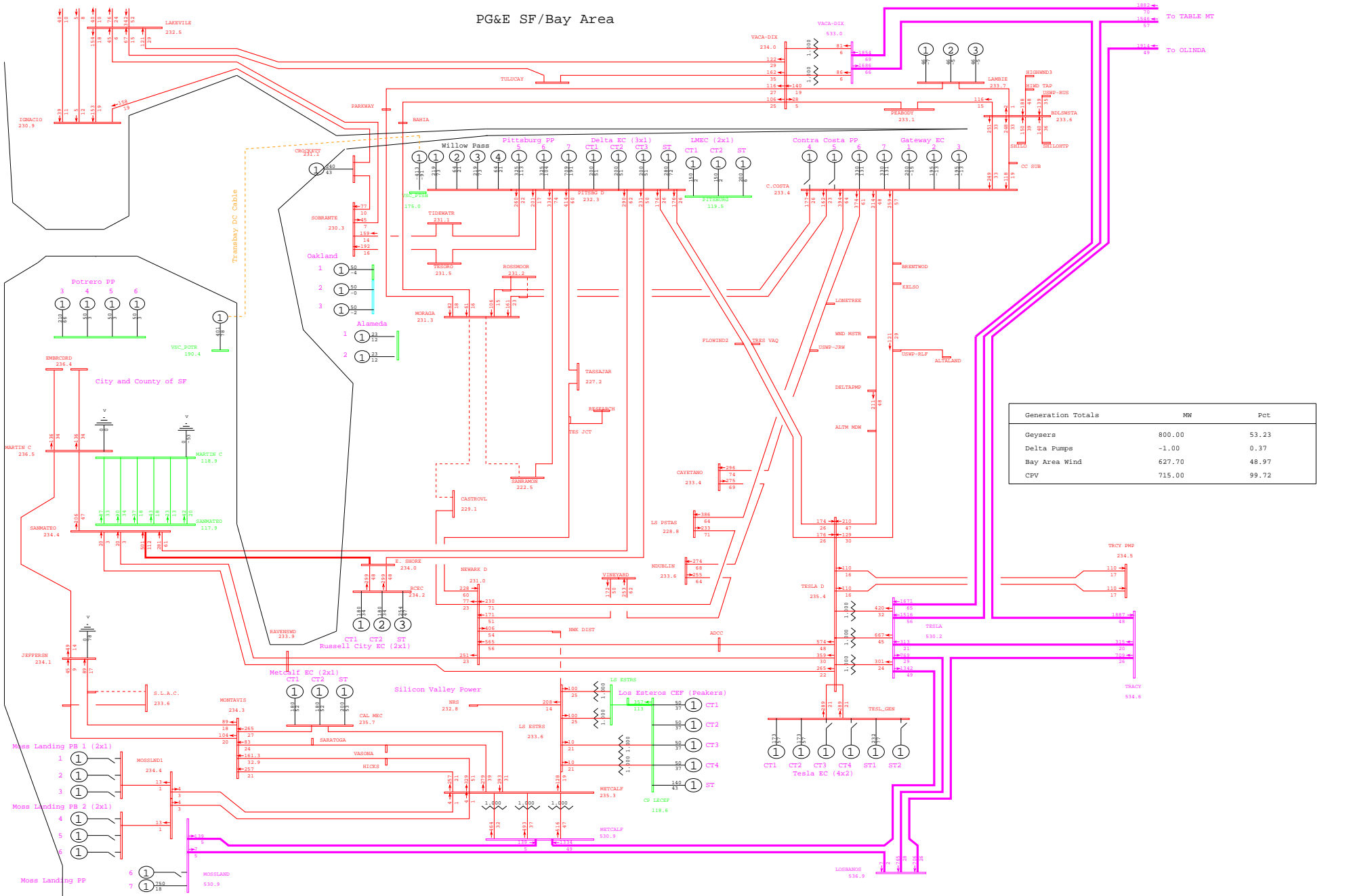
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:22 2008 wlopssv2-2013mrnt_pre_ptsb-490.sav

PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 MORAGA - SANRAMON & MORAGA - CASTROVALLY 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 490

MW/% rate
 bayarea_2013_PGE_v4.0r.w
 Rating = 2

PG&E SF/Bay Area



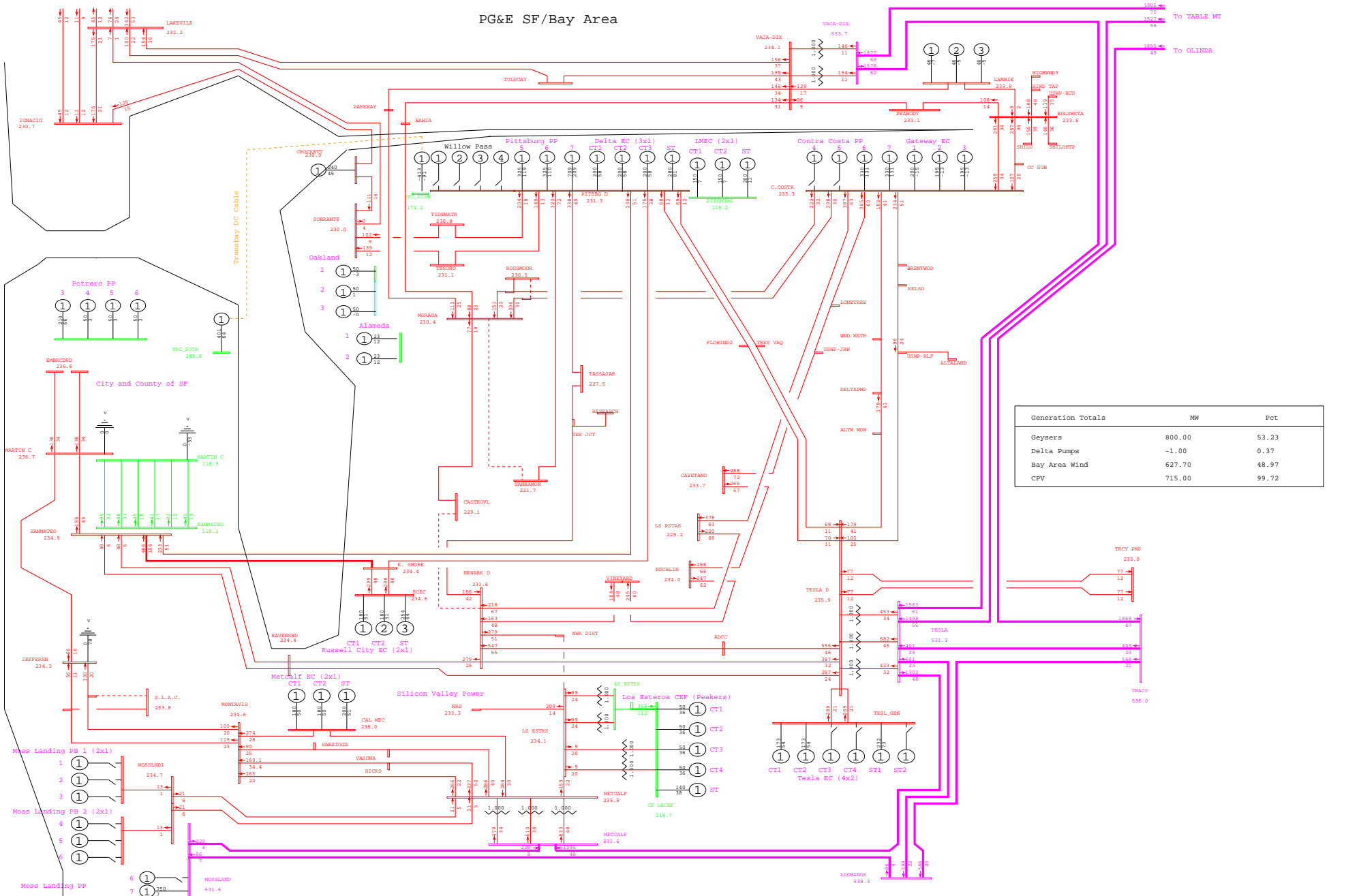
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:13 2008 wlopssv2-2013mrnt_pst_ptsb-490.sav




PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 MORAGA - SAN RAMON & MORAGA - CASTROVALLY 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 490
 MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area

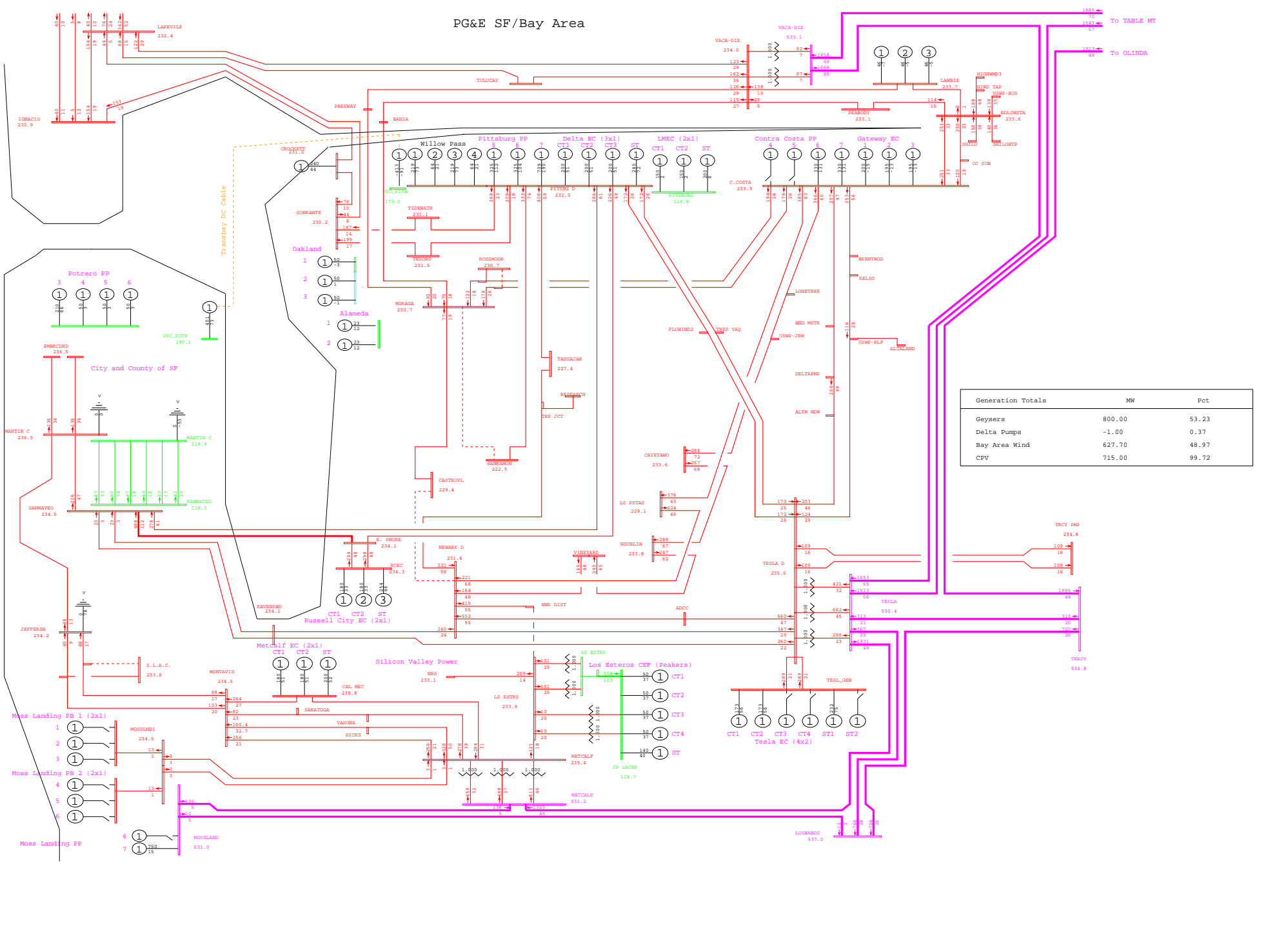


General Electric International, Inc. PSLF Program Fri Sep 26 20:53:23 2008 wlopssv2-2013mrnt_pre_ptsb-491.sav



 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 MORAGA - SANRAMON & CASTROVALLY - NEWARK 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 491
 MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



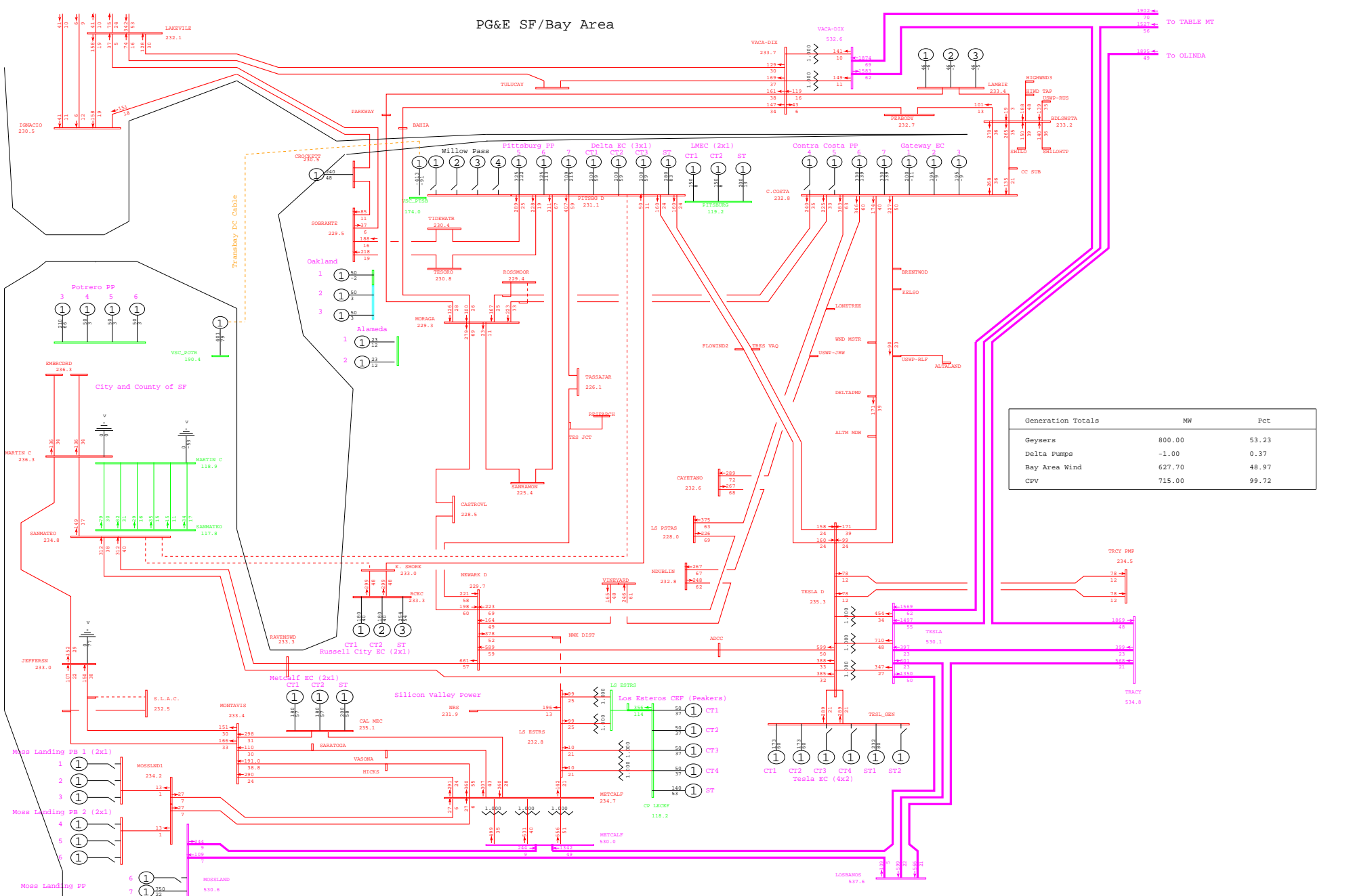
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:15 2008 wlopssv2-2013mrnt_pst_ptsb-491.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 MORAGA - SANRAMON & CASTROVALLY - NEWARK 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 491


MW/% rate
 bayarea_2013_PGE_v4.0r.w
 Rating = 2

PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

General Electric International, Inc. PSLF Program Fri Sep 26 20:53:24 2008 wlopssv2-2013mrnt_pre_ptsb-492.sav

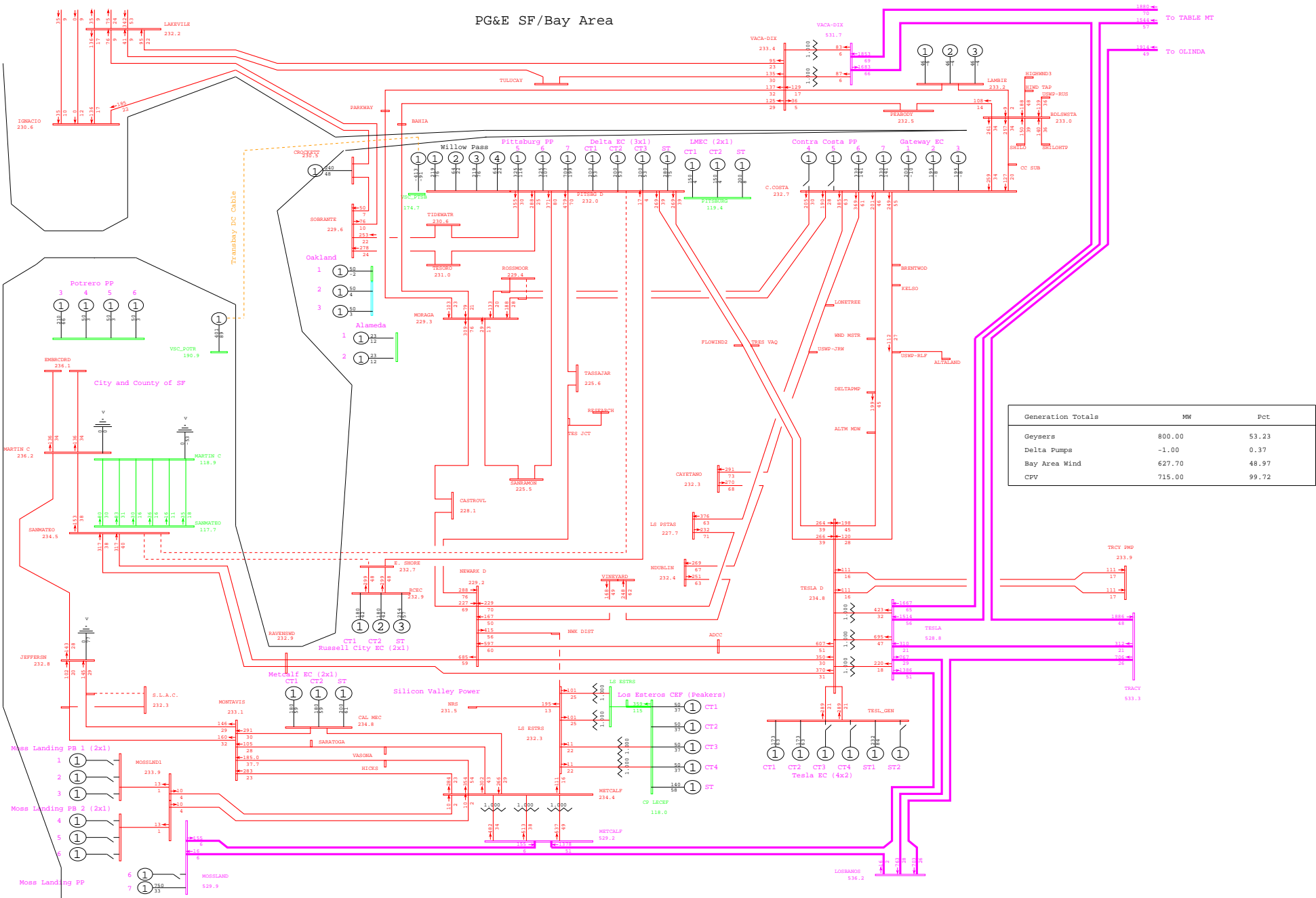


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

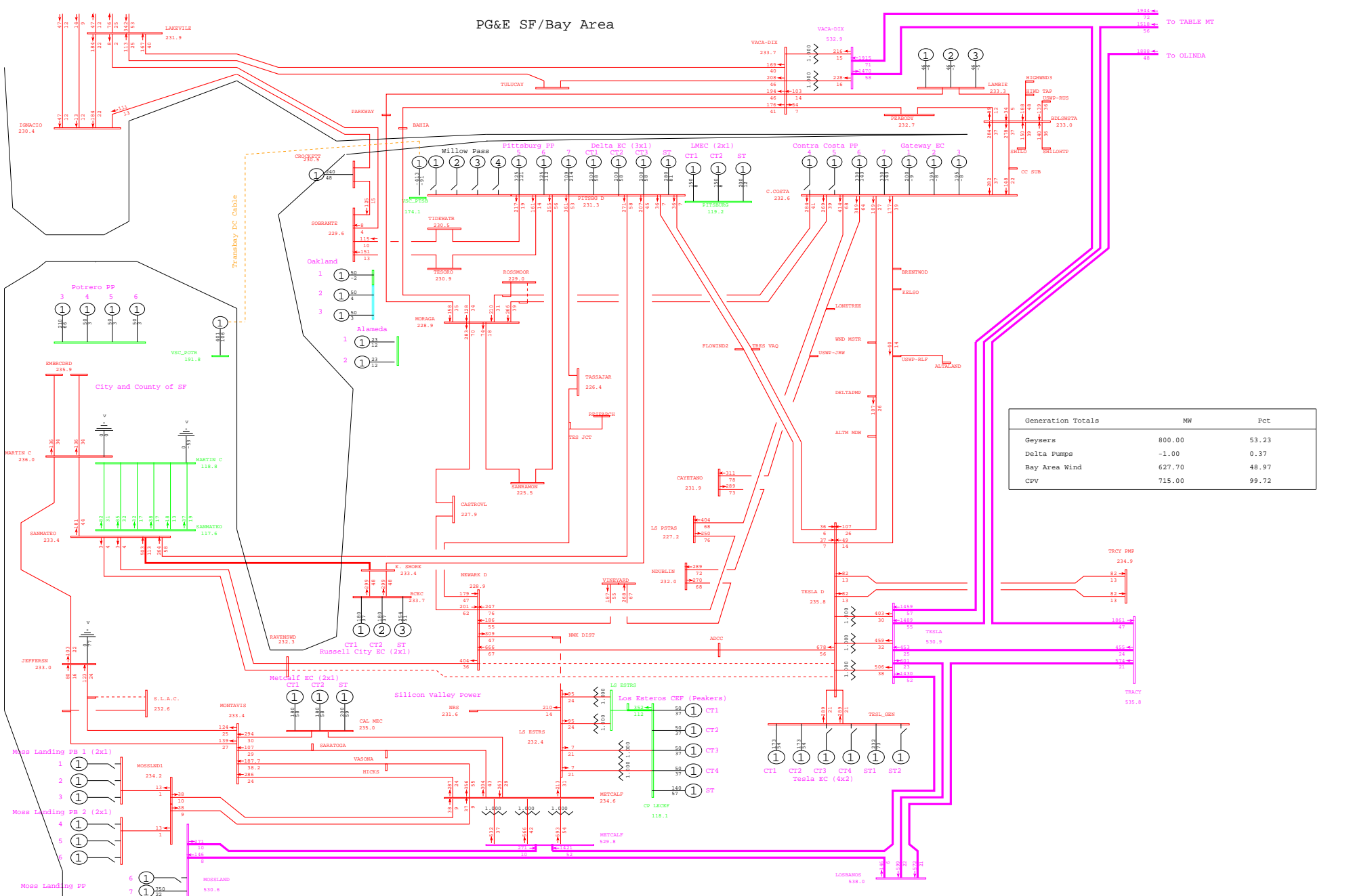
N-2 PITTSBURG - SAN MATEO & EAST SHORE - SAN MATEO 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 492

MW/% rate
 bayarea_2013_PGE_v4.0.rtf
 Rating = 2


PG&E SF/Bay Area



PG&E SF/Bay Area

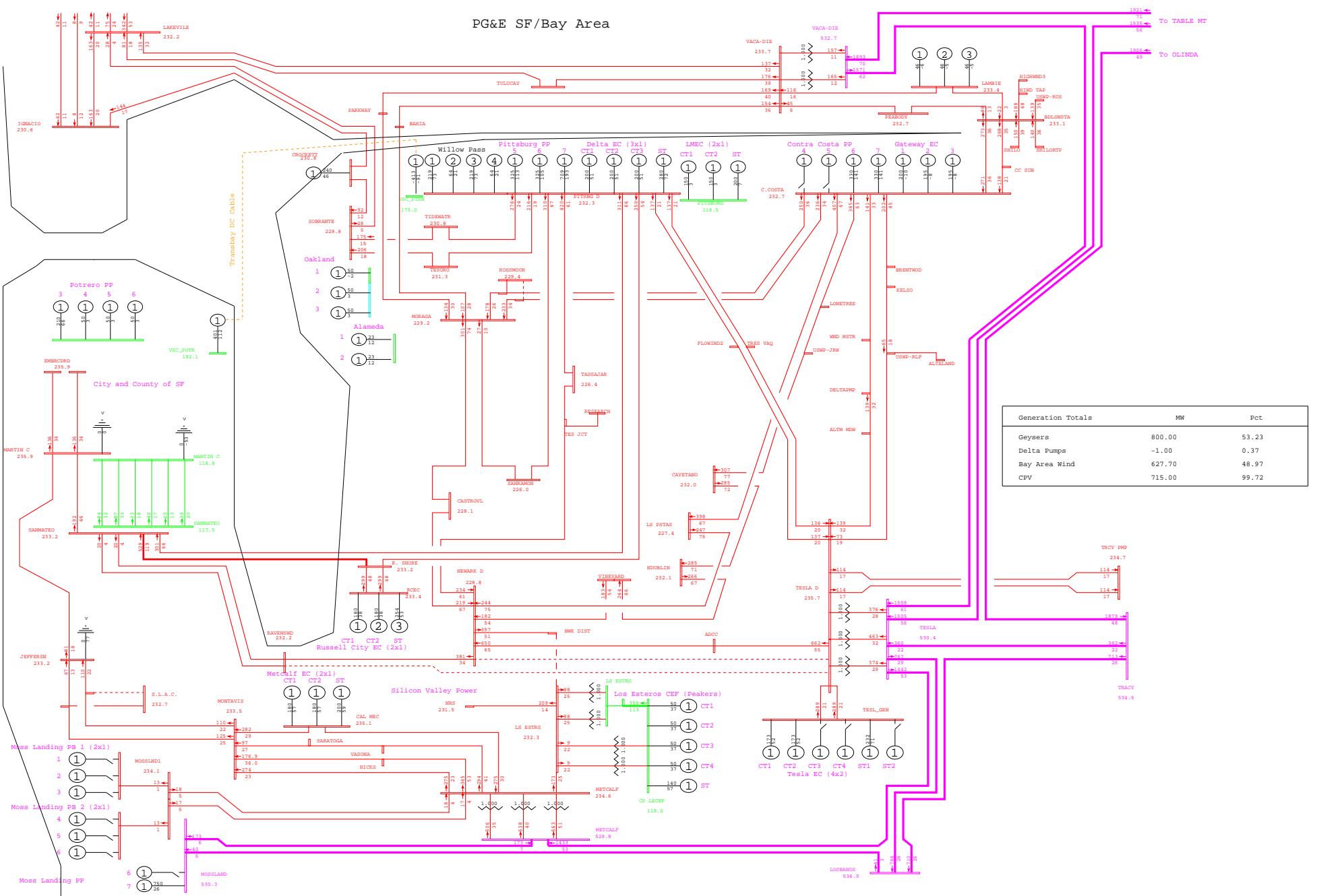


General Electric International, Inc. PSLF Program Fri Sep 26 20:53:25 2008 wlopssv2-2013mrnt_pre_ptsb-493.sav

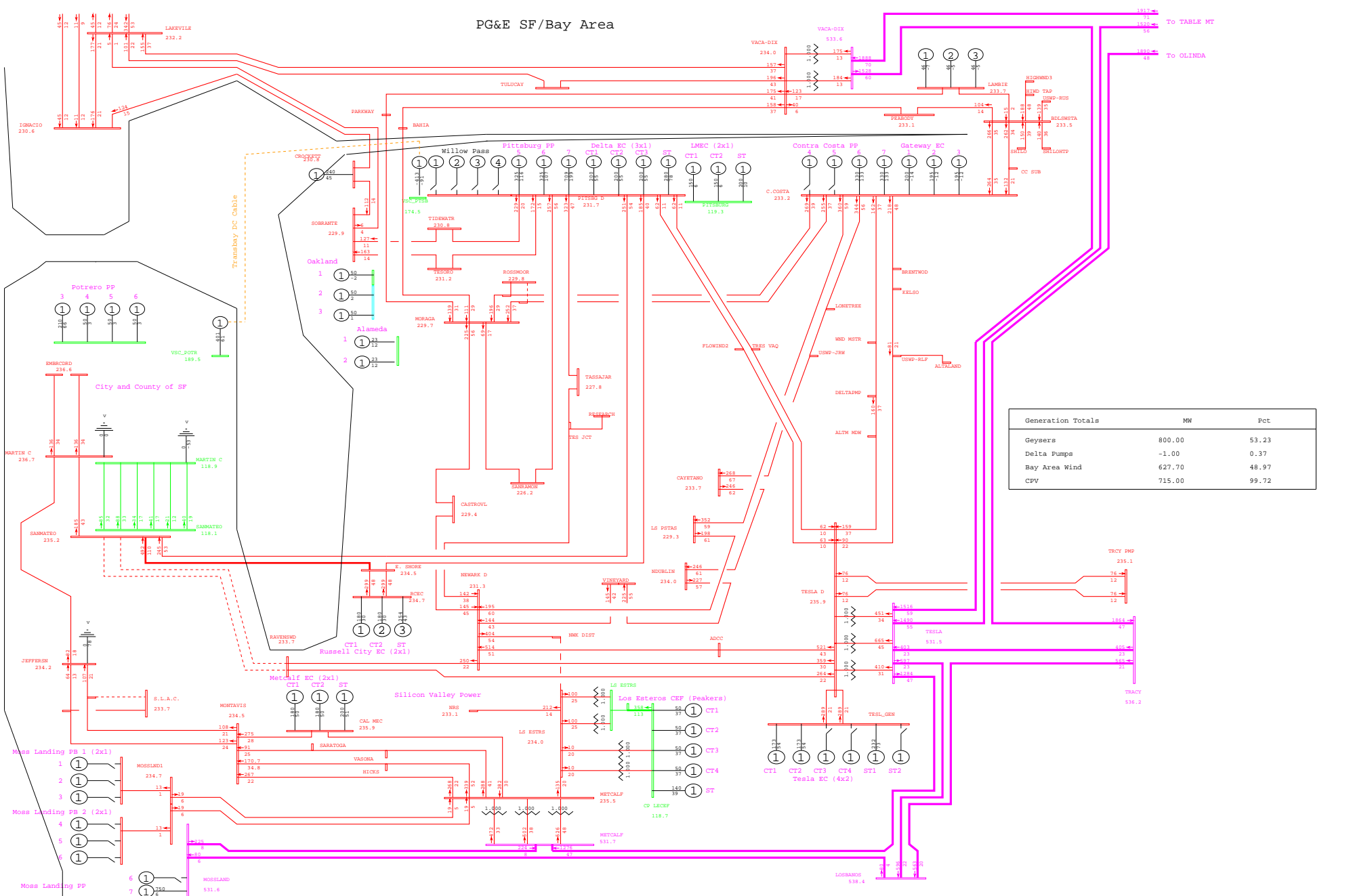

 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 TESLA - NEWARK & TESLA - RAVENSWOOD 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 493
 MW/% rate
 bayarea_2013_PGE_v4.drw
 Rating = 2

PG&E SF/Bay Area



PG&E SF/Bay Area



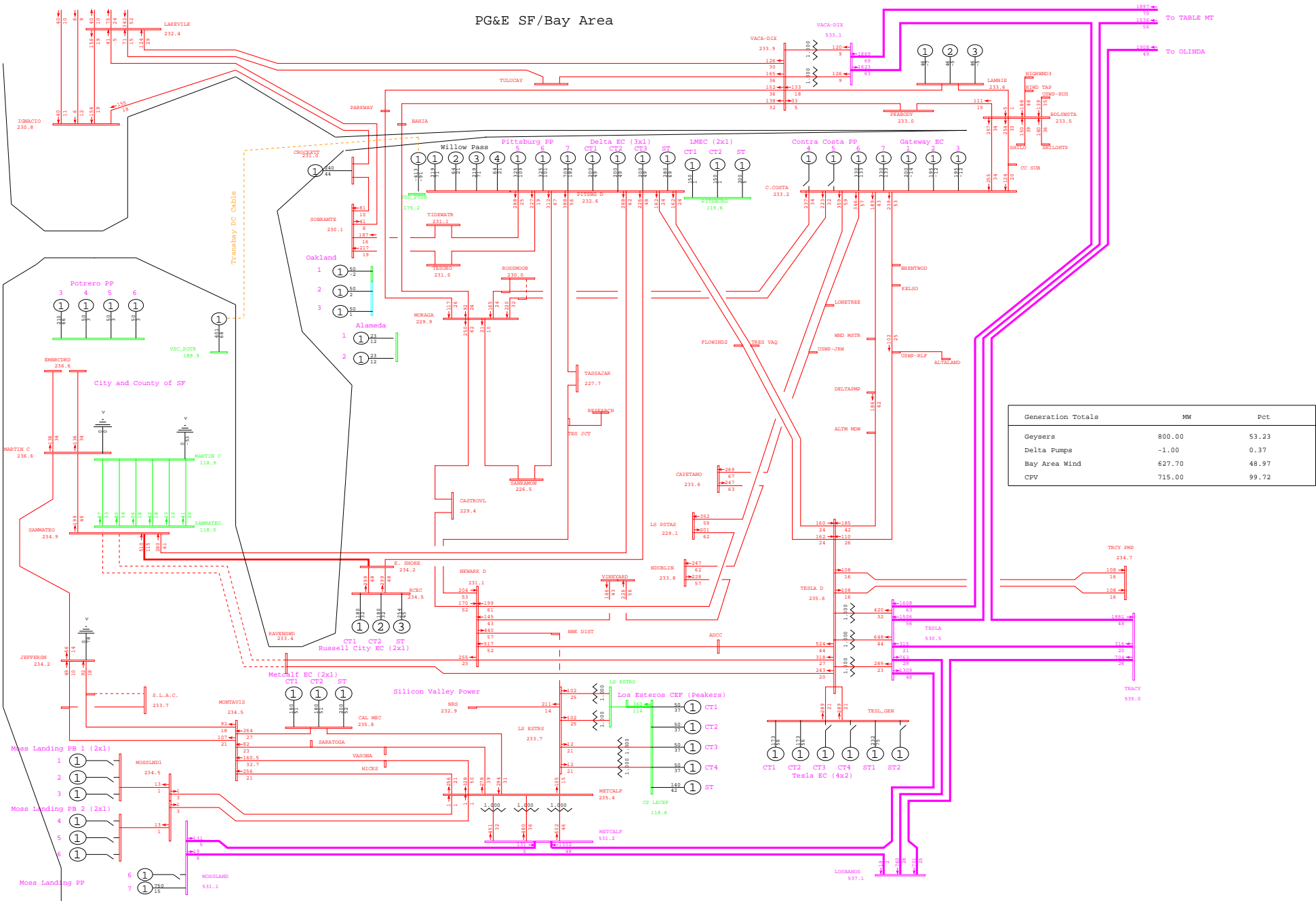
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:26 2008 wlopssv2-2013mrnt_pre_ptsb-494.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 RAVENSWOOD - SAN MATEO #1 & #2 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 494
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:50:18 2008 wlopssv2-2013mrnt_pst_ptsb-494.sav

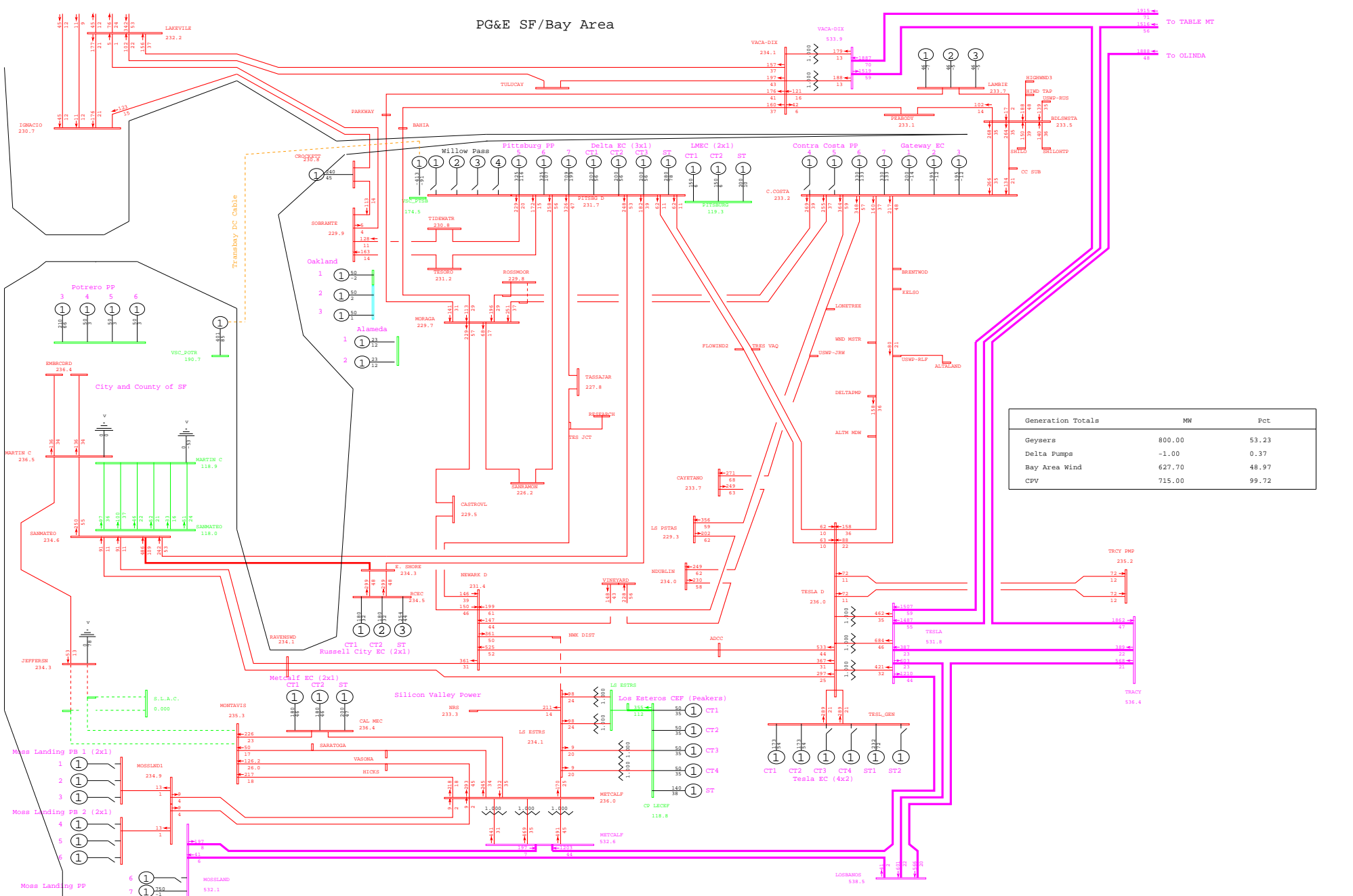


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 RAVENSWOOD - SAN MATEO #1 & #2 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 494

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:53:27 2008 wlopssv2-2013mrnt_pre_ptsb-495.sav

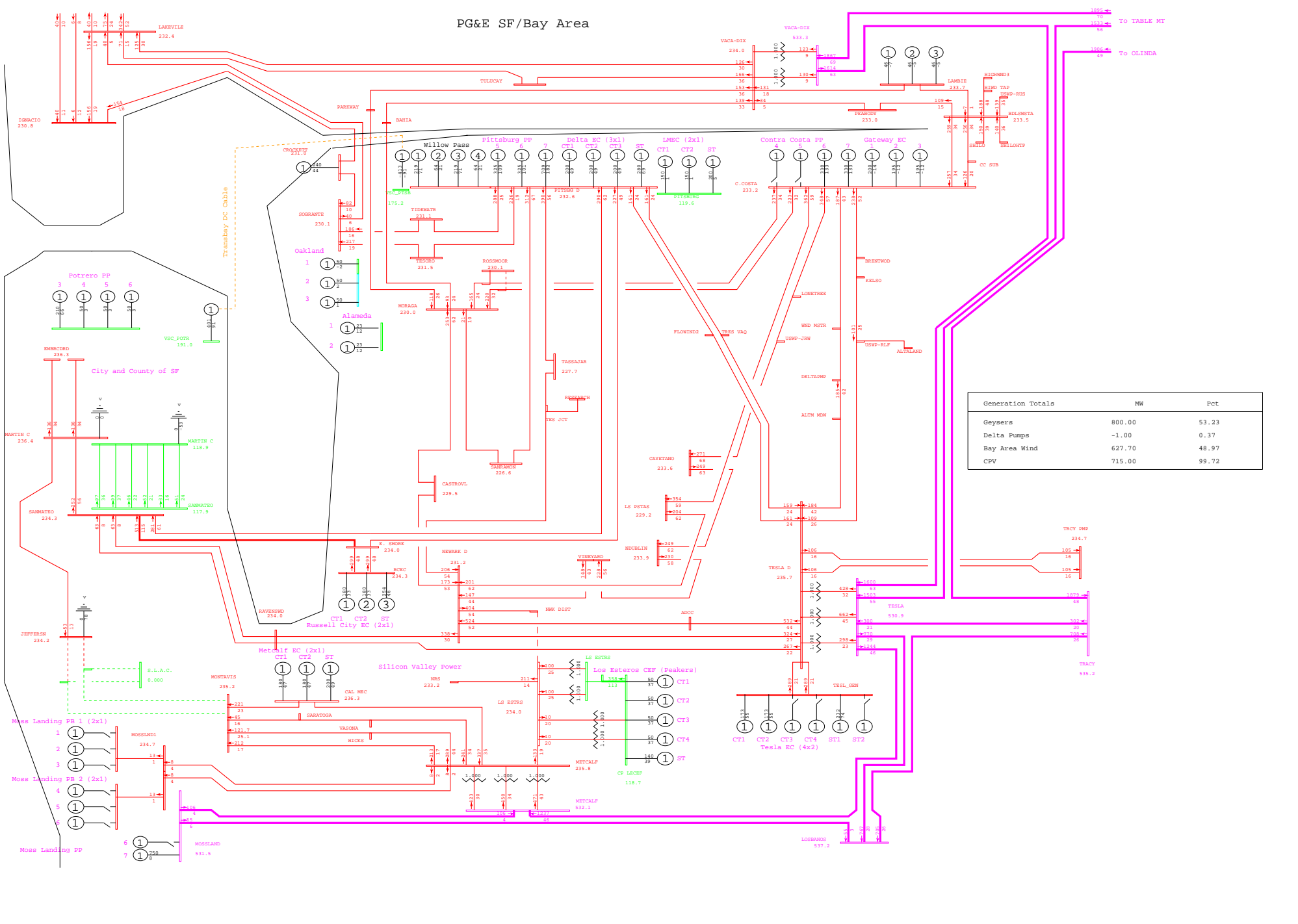


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 MONTAVISTA - JEFFERSON 230kV #1 & #2 LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 495

MW/% rate
 bayarea_2013_PGE_v4.0r.w
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:50:19 2008 wlopssv2-2013mrnt_pst_ptsb-495.sav

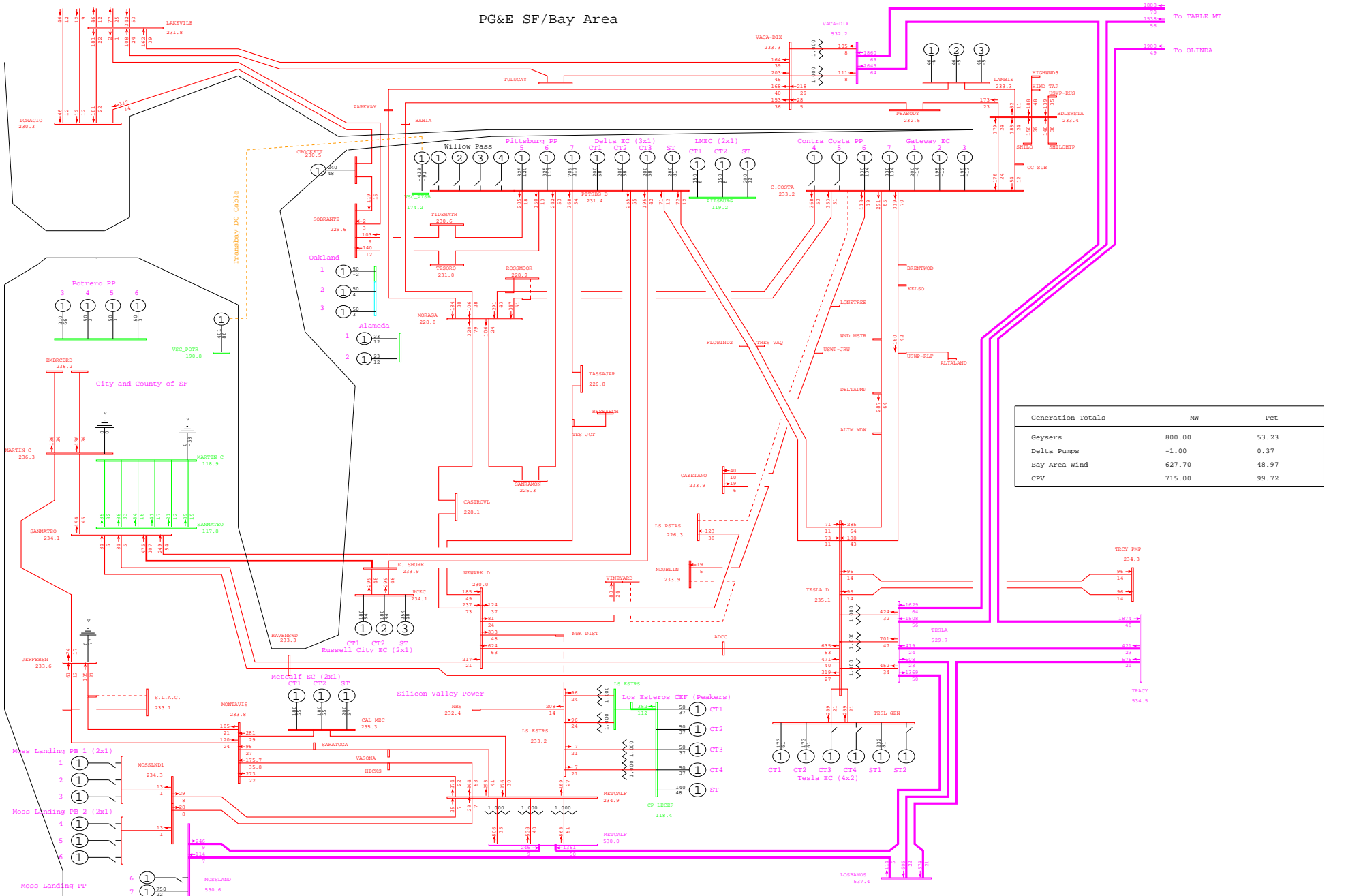


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 MONTAVISTA - JEFFERSON 230kV #1 & #2 LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 495

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



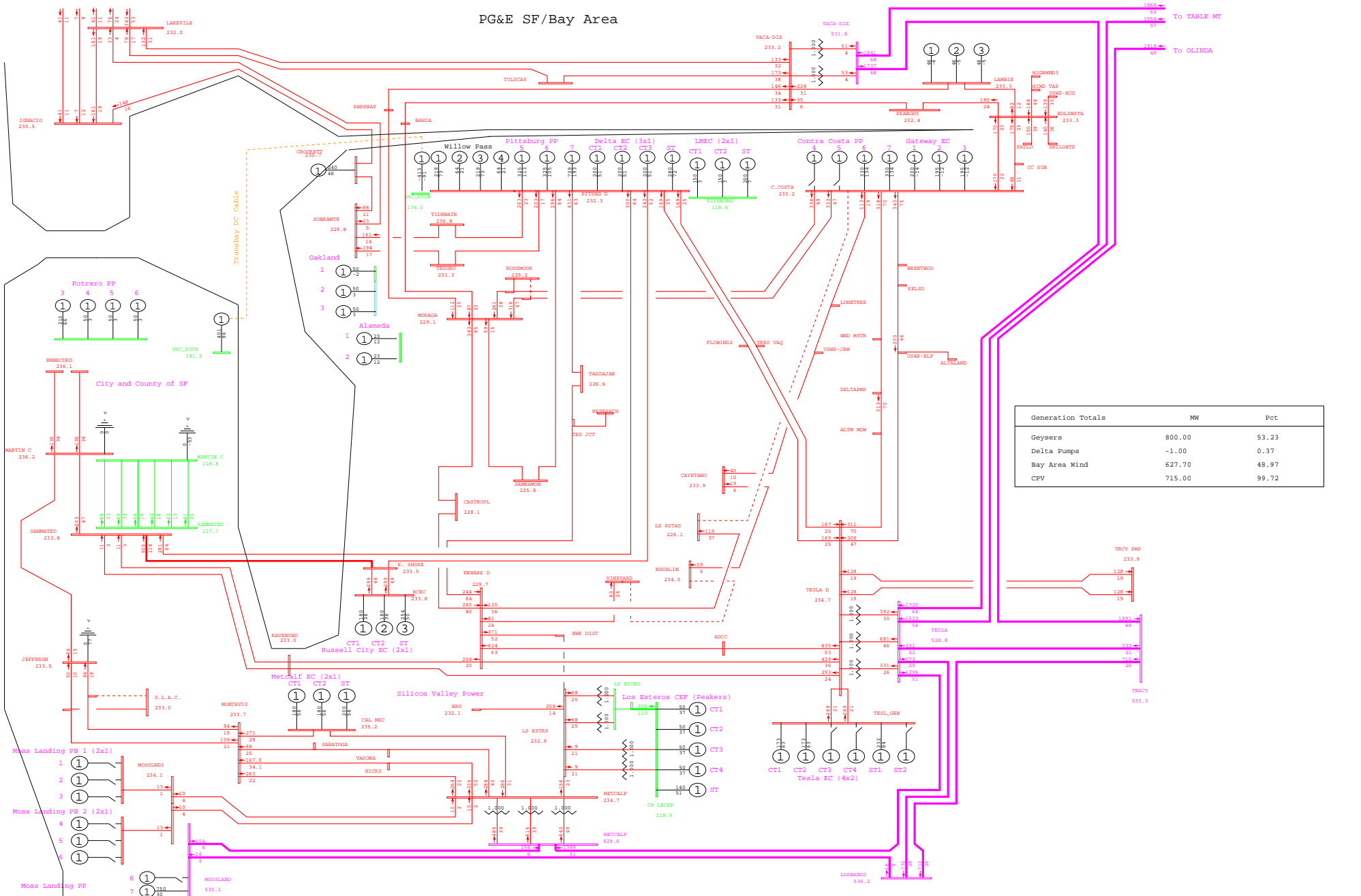
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:28 2008 wlopssv2-2013mrnt_pre_ptsb-496.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 NORTH DUBLIN - VINYARD & CONTRA COSTA - LOS PASITAS 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 496

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



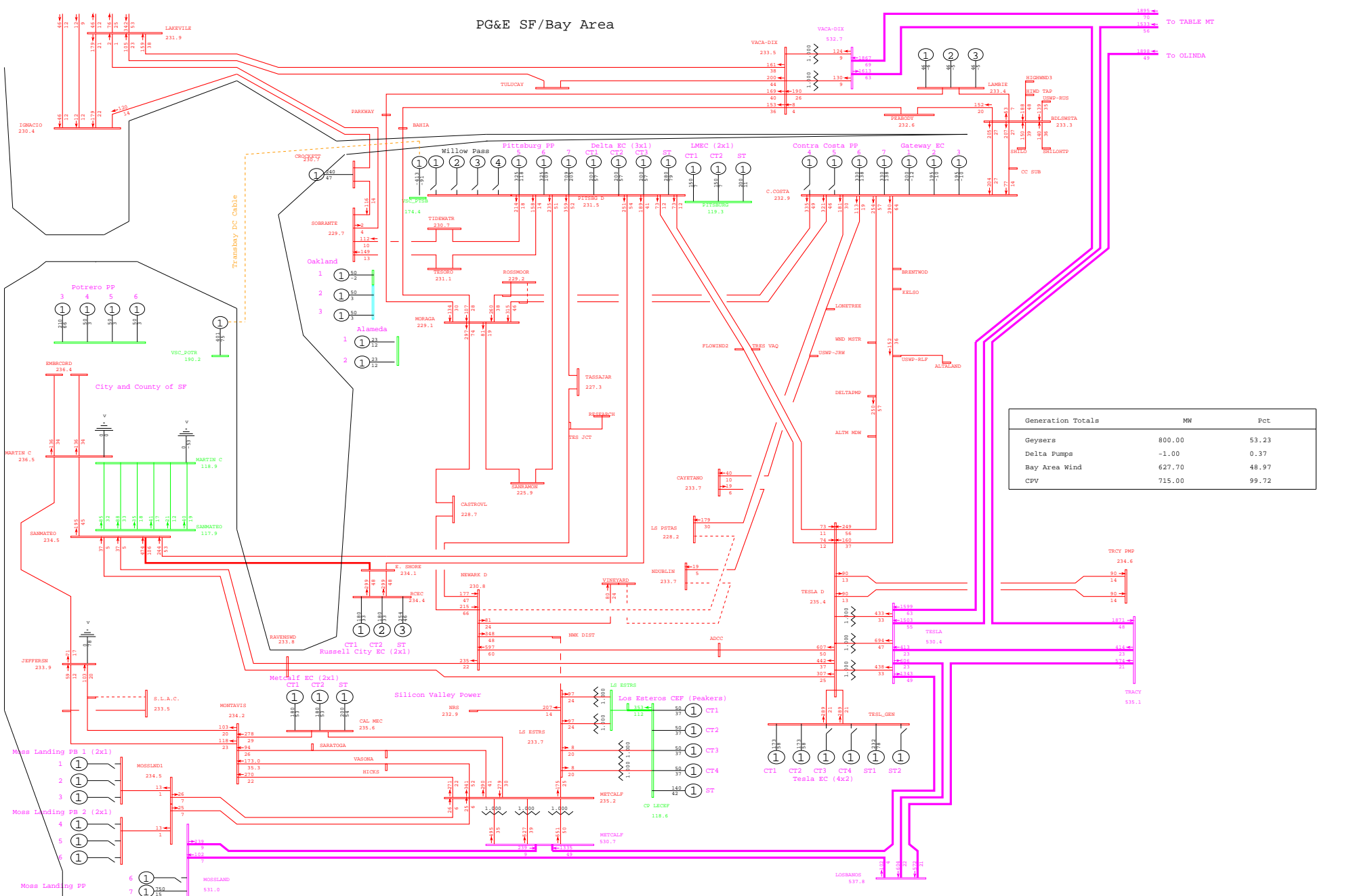
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:20 2008 wlopssv2-2013mrnt_pst_ptsb-496.sav



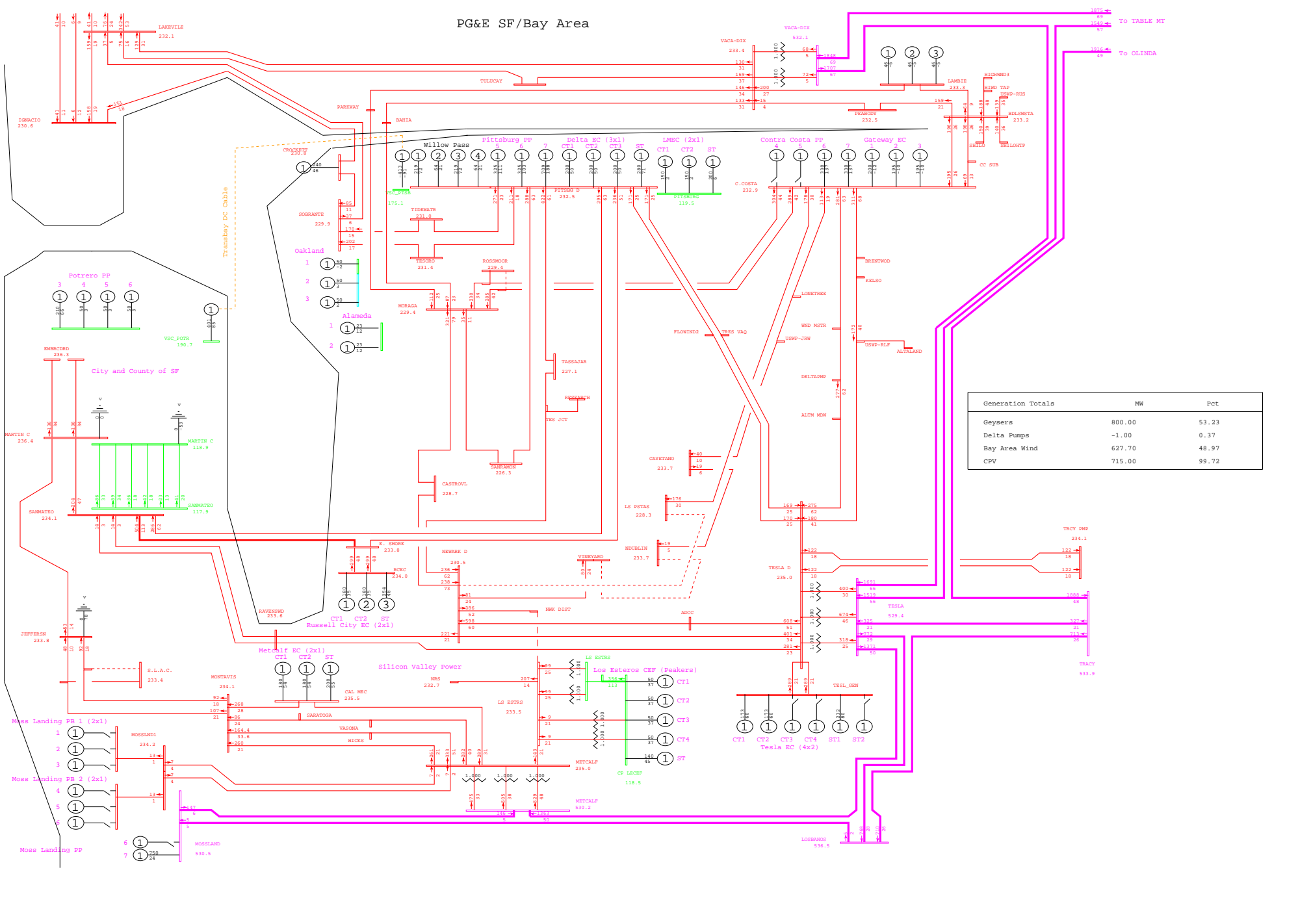
PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 NORTH DUBLIN - VINYARD & CONTRA COSTA - LOS PASITAS 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 496
 MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:50:21 2008 wlopssv2-2013mrnt_pst_ptsb-497.sav

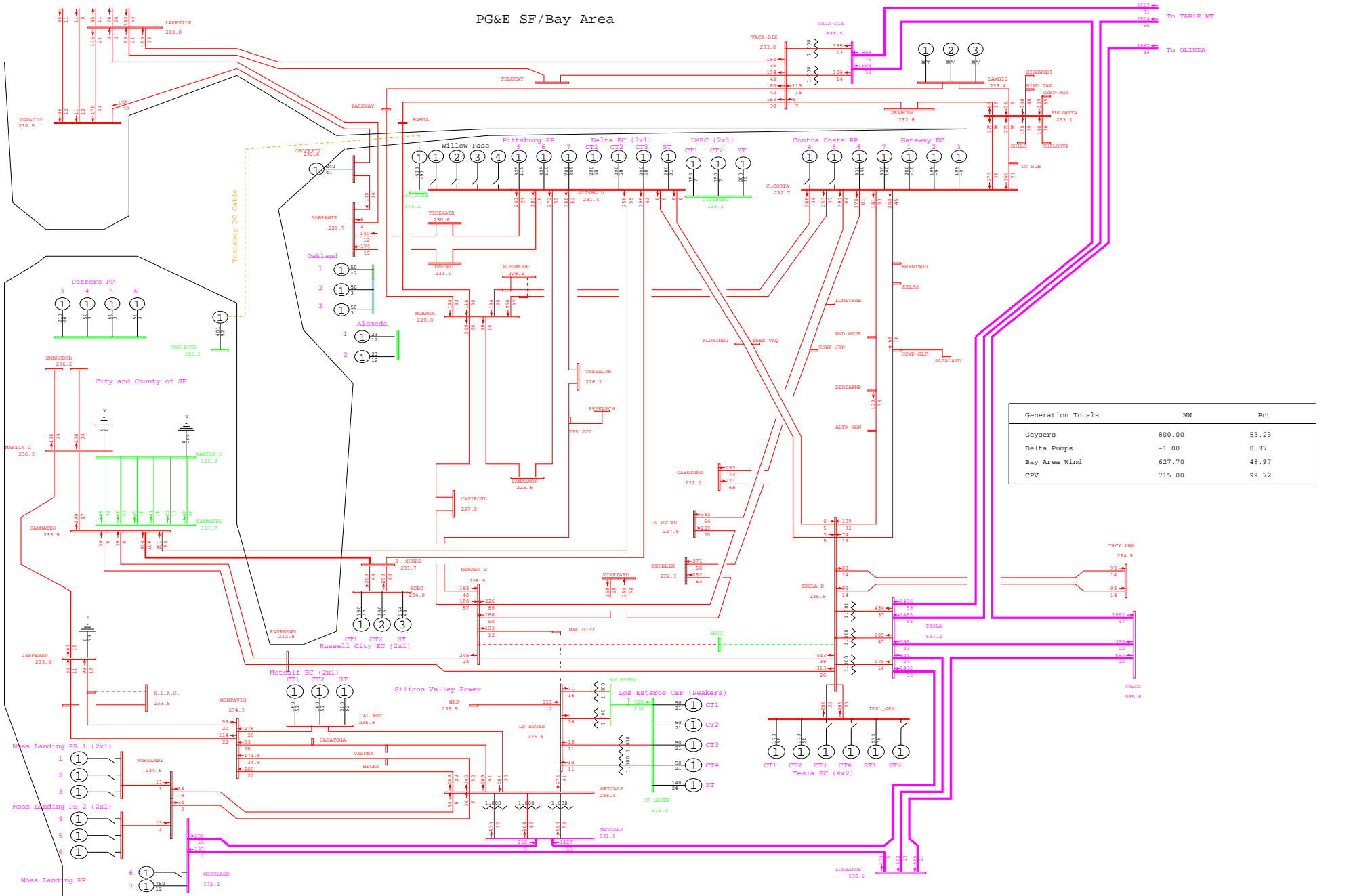


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 NORTH DUBLIN - VINYARD & LOS PASITAS - NEWARK 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 497

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



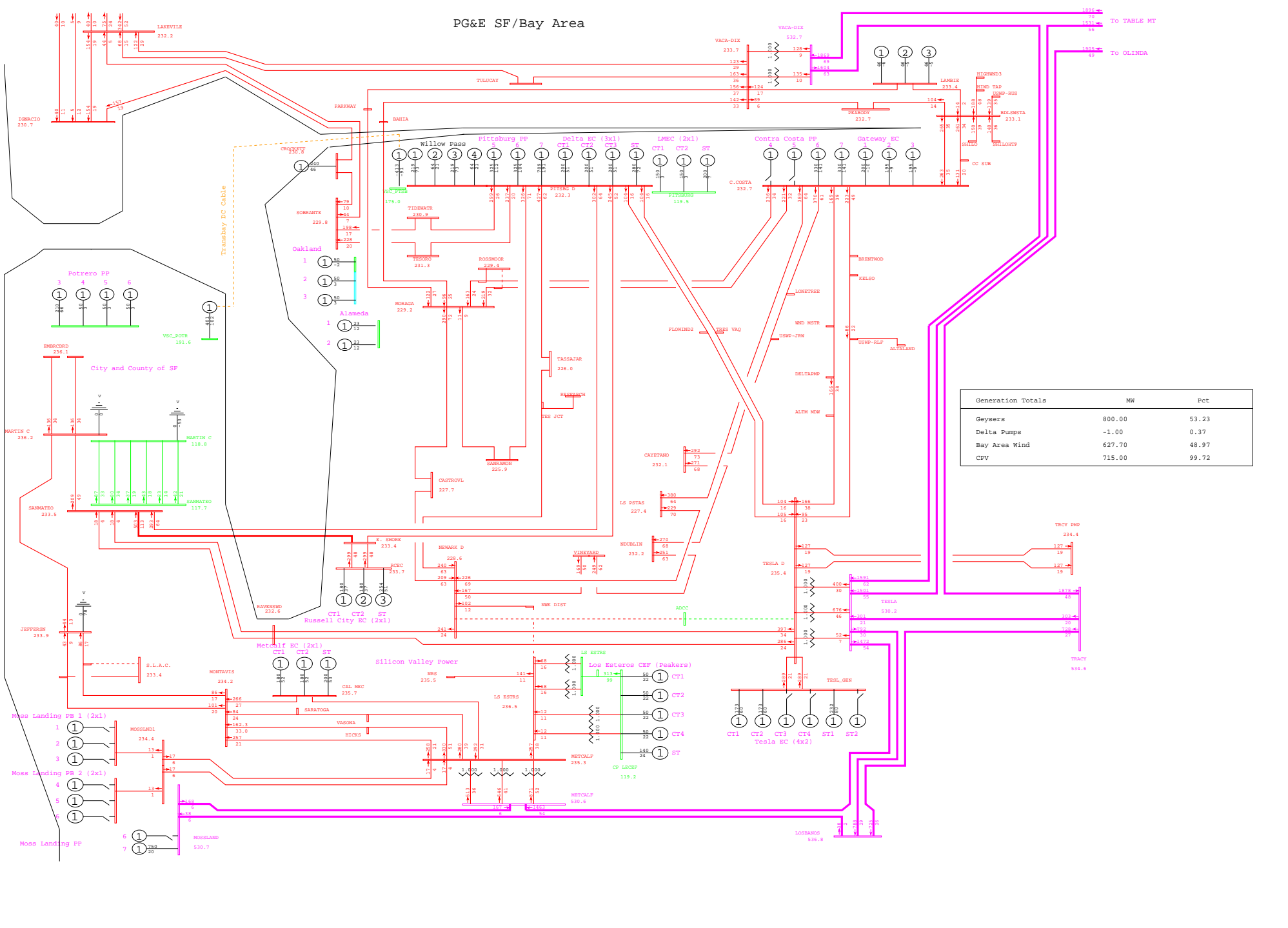
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:29 2008 wlopssv2-2013mrnt_pre_ptsb-498.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 TESLA - NEWARK #2 & NWK DIST - LOS ESTEROS 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 498
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



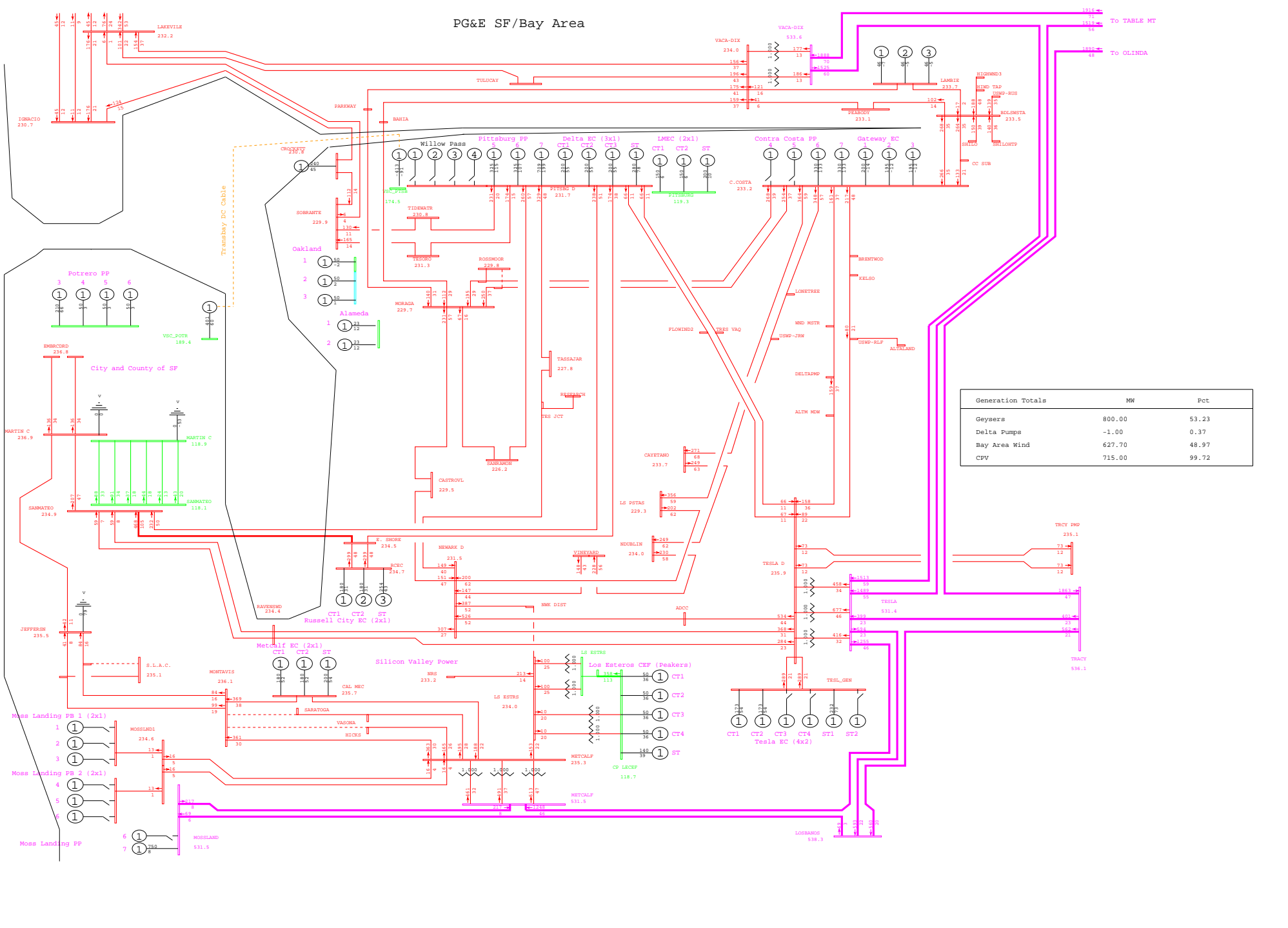
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:22 2008 wlopssv2-2013mrnt_pst_ptsb-498.sav




PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 TESLA - NEWARK #2 & NWK DIST - LOS ESTEROS 230KV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 498
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



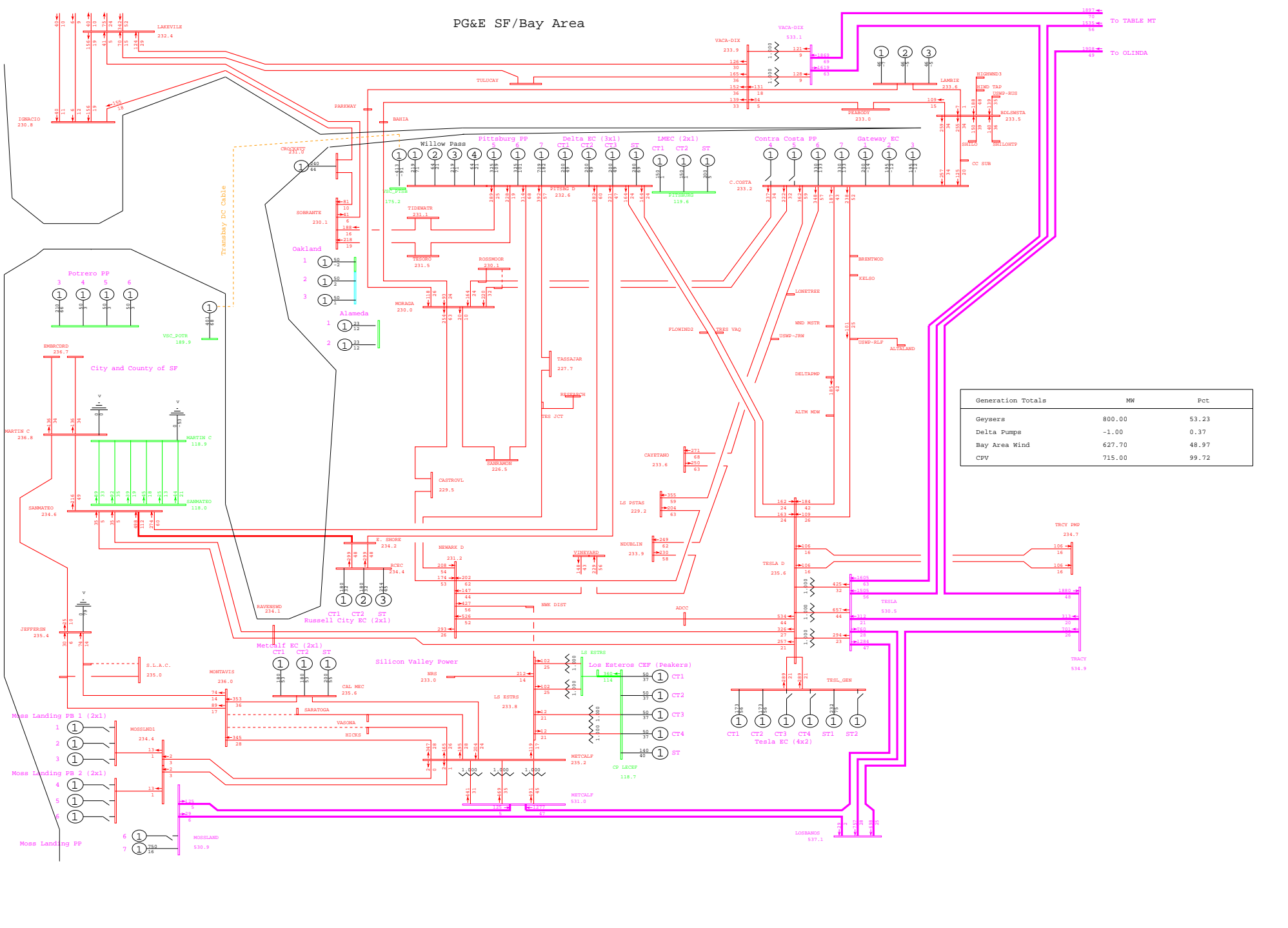
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:30 2008 wlopssv2-2013mrnt_pre_ptsb-499.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 MONTAVISTA - SARATOGA & MONTAVISTA - HICKS 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 499
 MW/% rate
 bayarea_2013_PGE_v4.0.rtf
 Rating = 2

PG&E SF/Bay Area



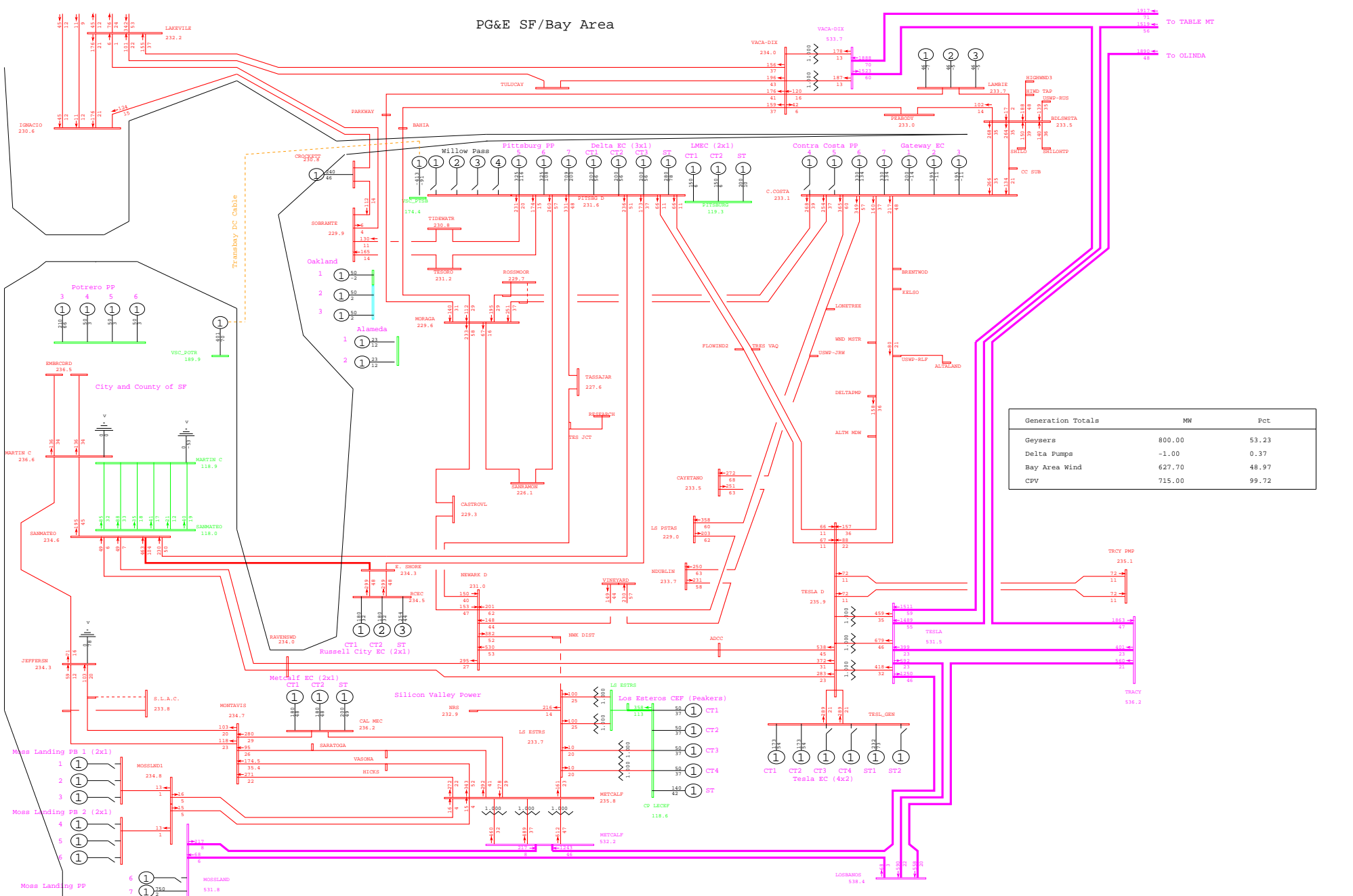
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:23 2008 wlopssv2-2013mrnt_pst_ptsb-499.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 MONTAVISTA - SARATOGA & MONTAVISTA - HICKS 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 499
 MW/% rate
 bayarea_2013_PGE_v4.0.rtf
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:42 2008 wlopssv2-2013mrnt_pre_ptsb-343.sav

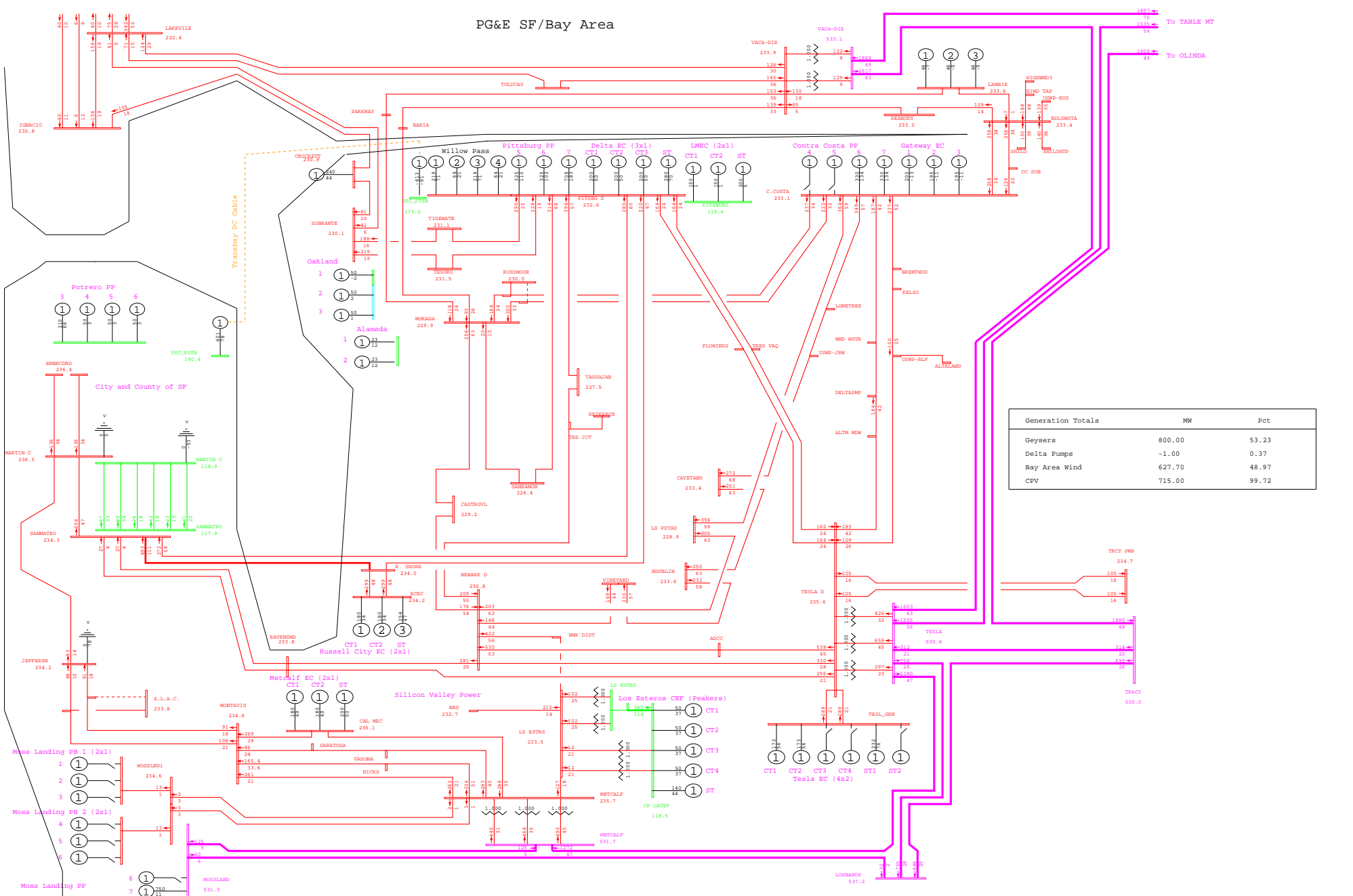


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 METCALF E - SWIFT 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 343

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

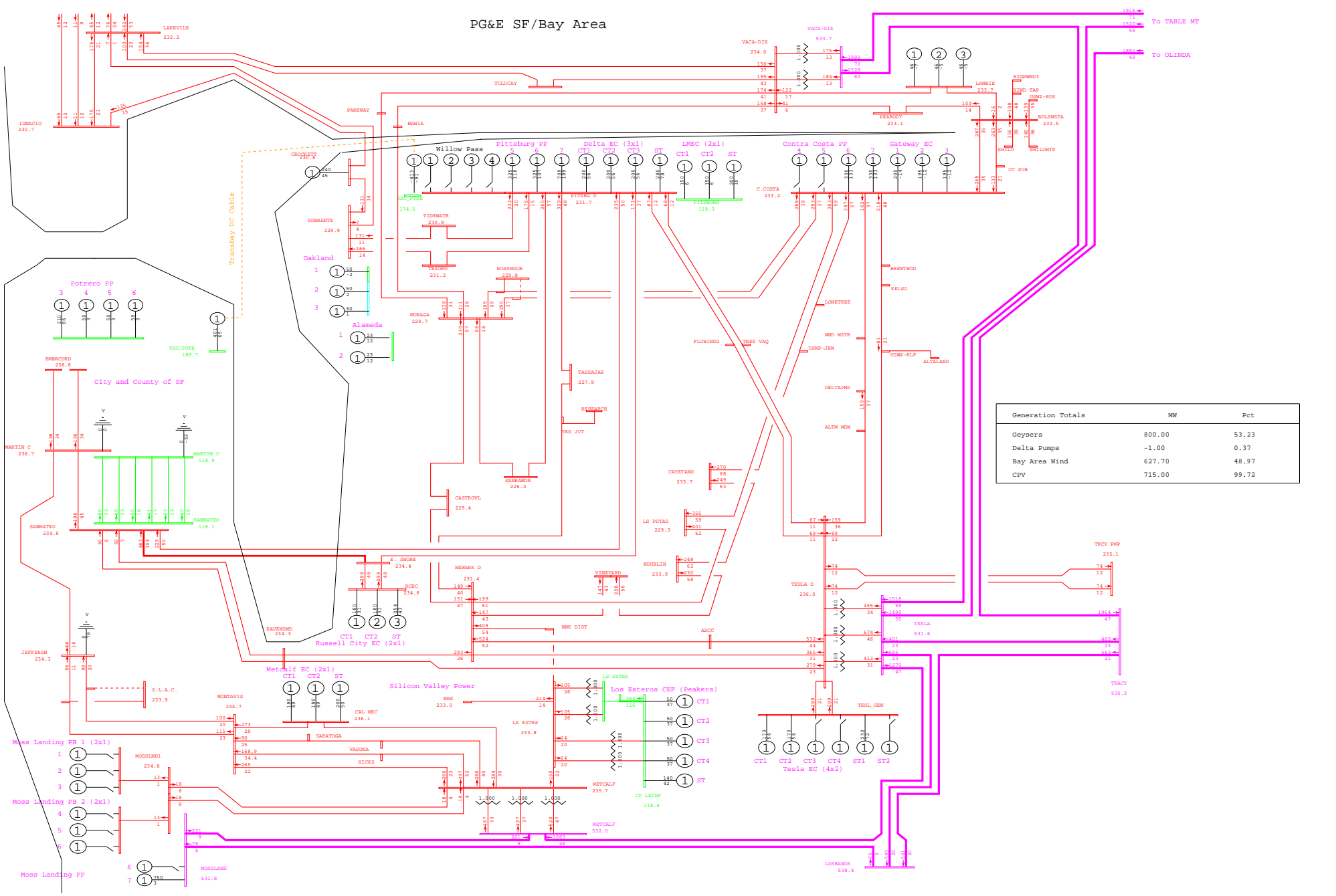
PG&E SF/Bay Area




Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:42 2008 wlopssv2-2013mrnt_pre_ptsb-346.sav

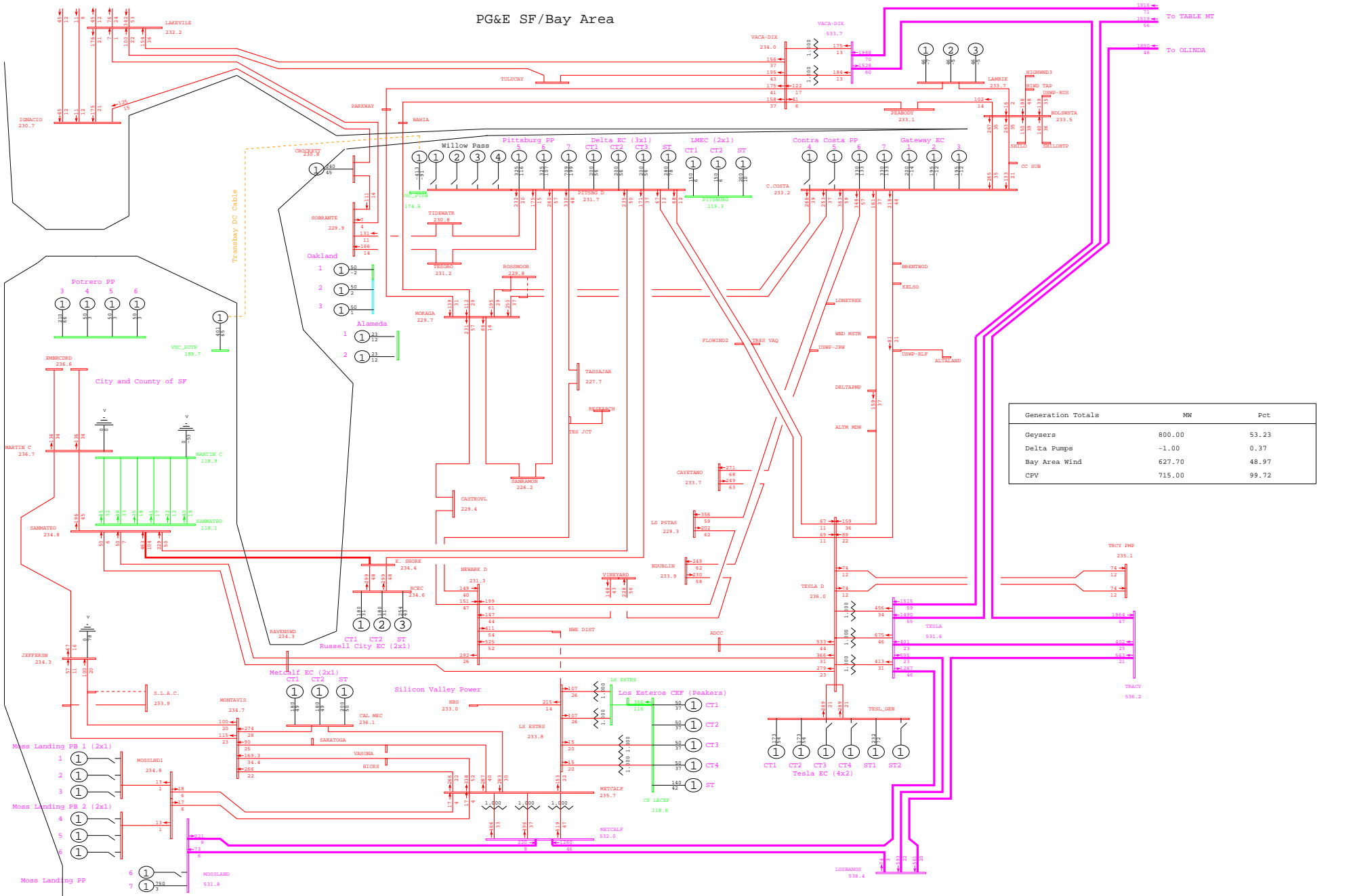


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-1 METCALF - EVERGREEN #1 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 346

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



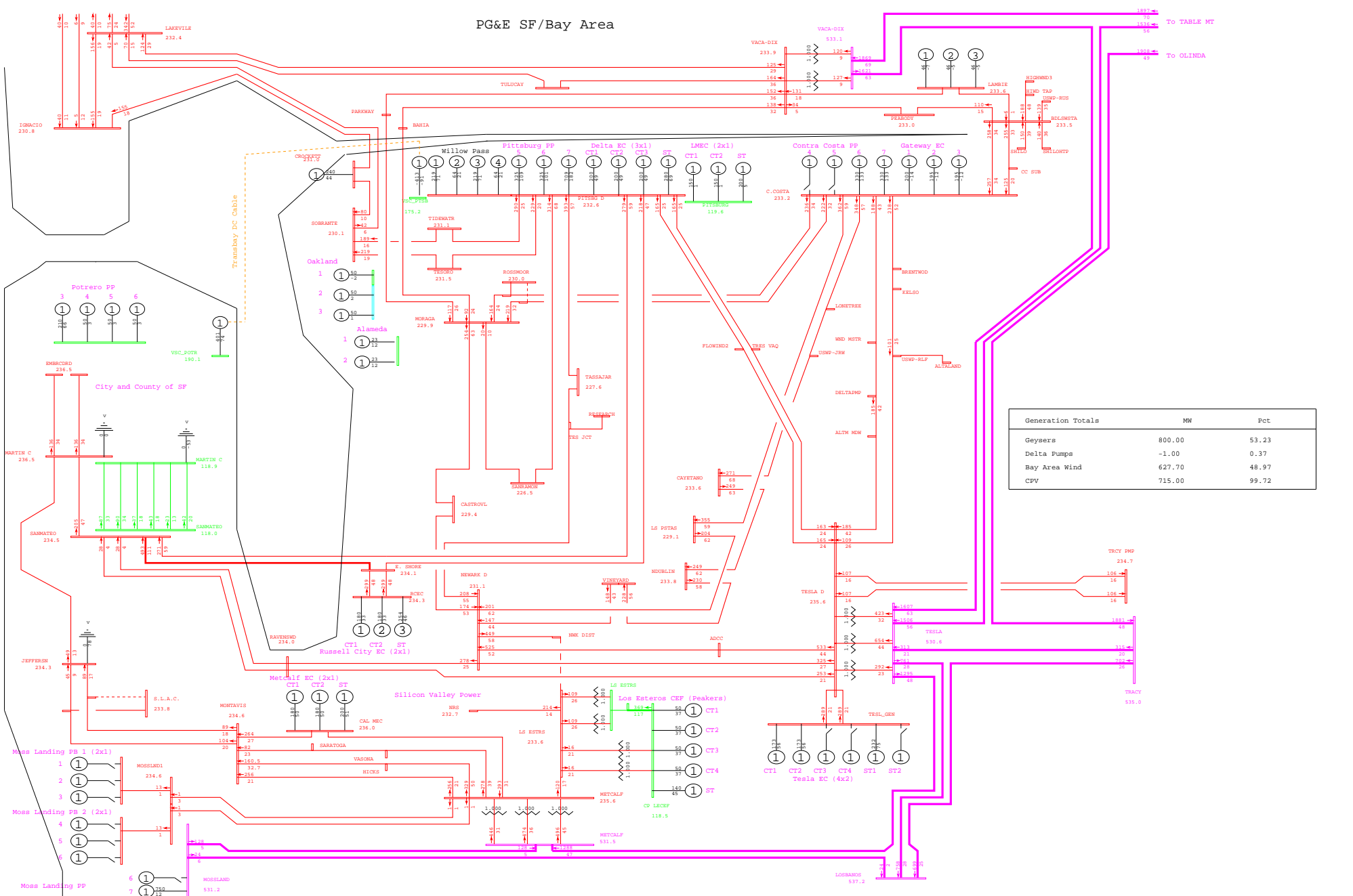
General Electric International, Inc. PSLF Program Fri Sep 26 20:52:44 2008 wlopssv2-2013mrnt_pre_ptsb-349.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 METCALF - EL PATIO(-IBM HR) #1 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 349

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



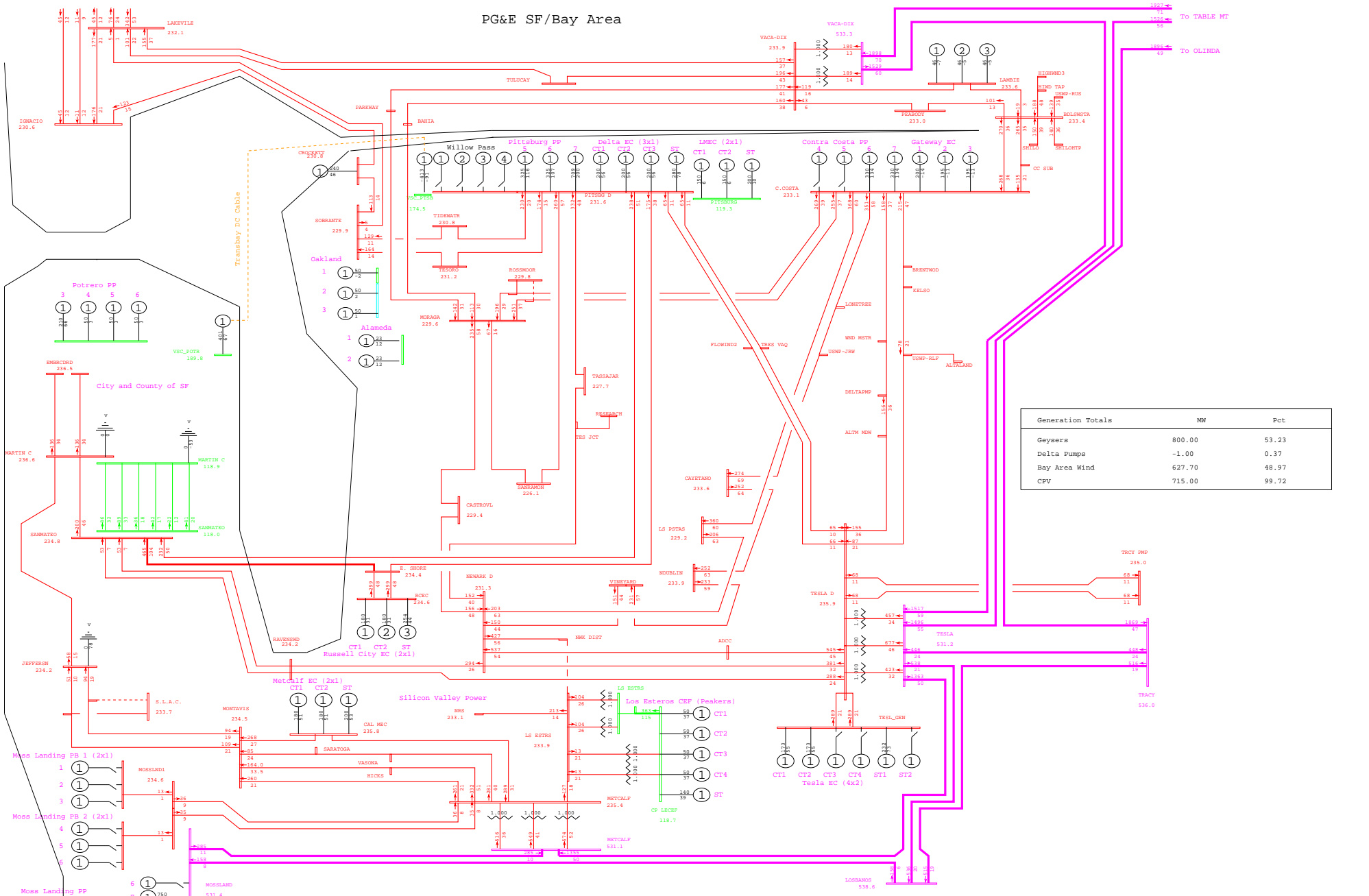
General Electric International, Inc. PSLF Program Fri Sep 26 20:49:33 2008 wlopssv2-2013mrnt_pst_ptsb-349.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 METCALF - EL PATIO(-IBM HR) #1 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 349
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



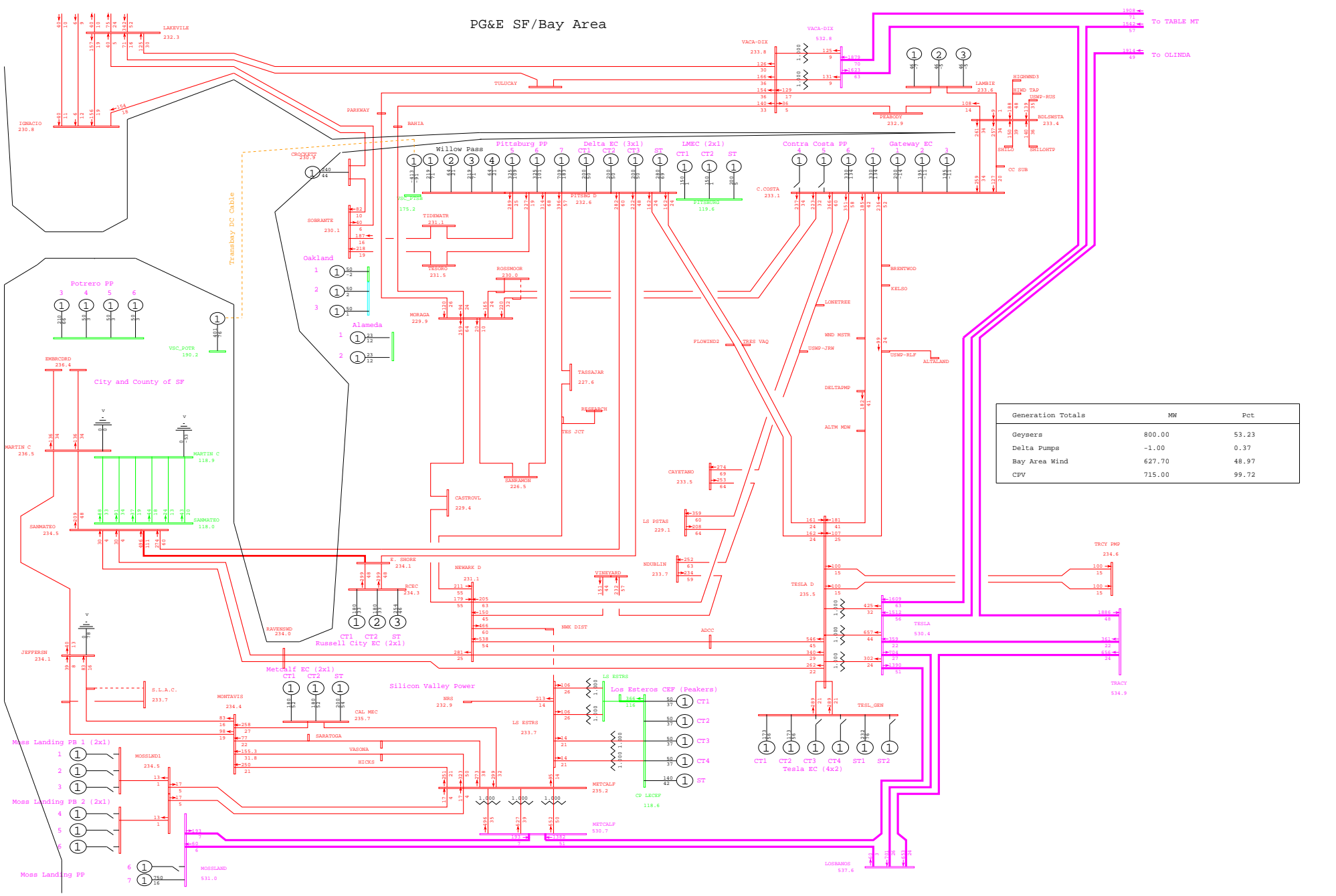
General Electric International, Inc. PSLF Program Fri Sep 26 20:52:44 2008 wlopssv2-2013mrnt_pre_ptsb-354.sav



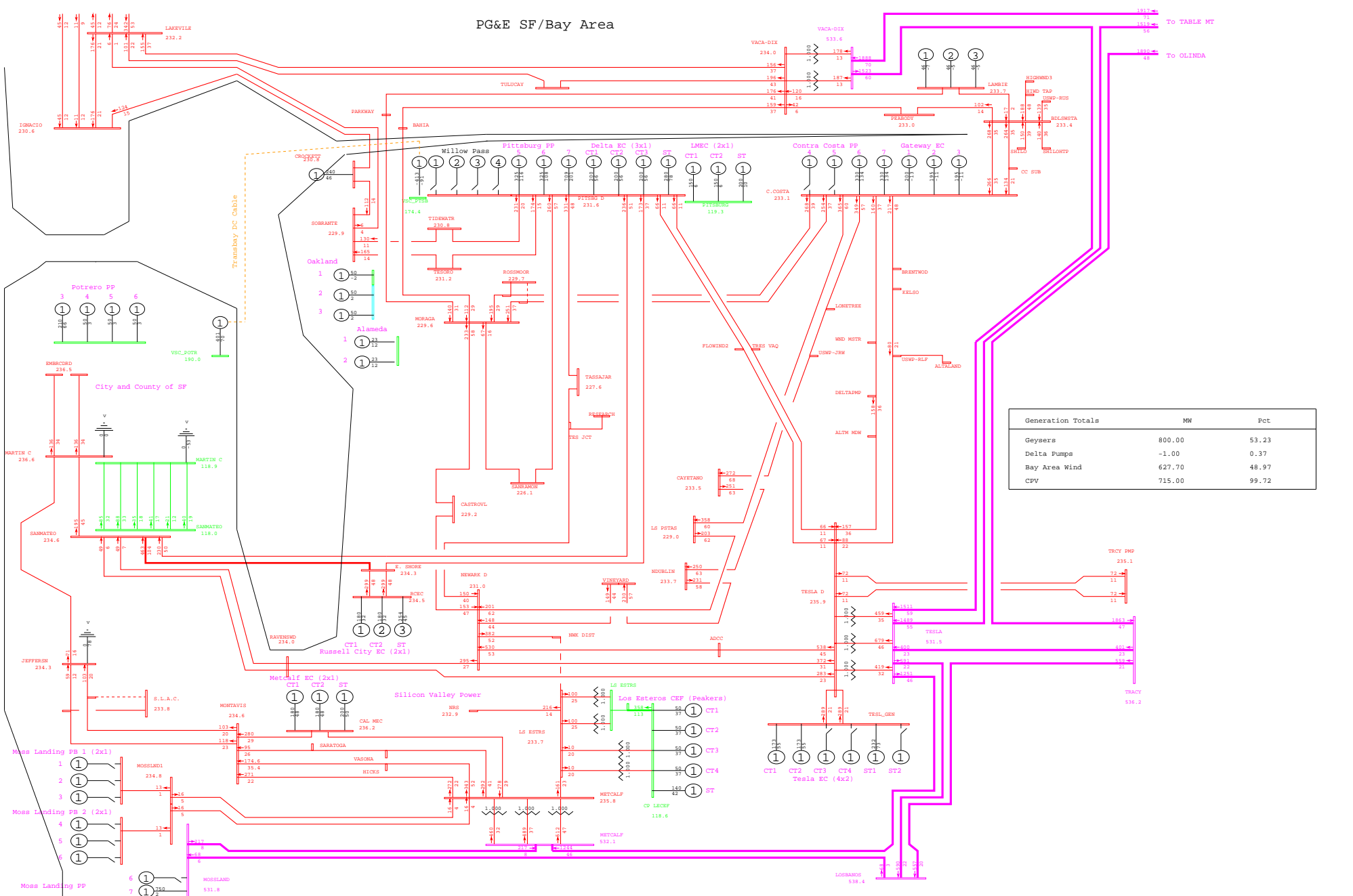
PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 GILROY - LLAGAS 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 354
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

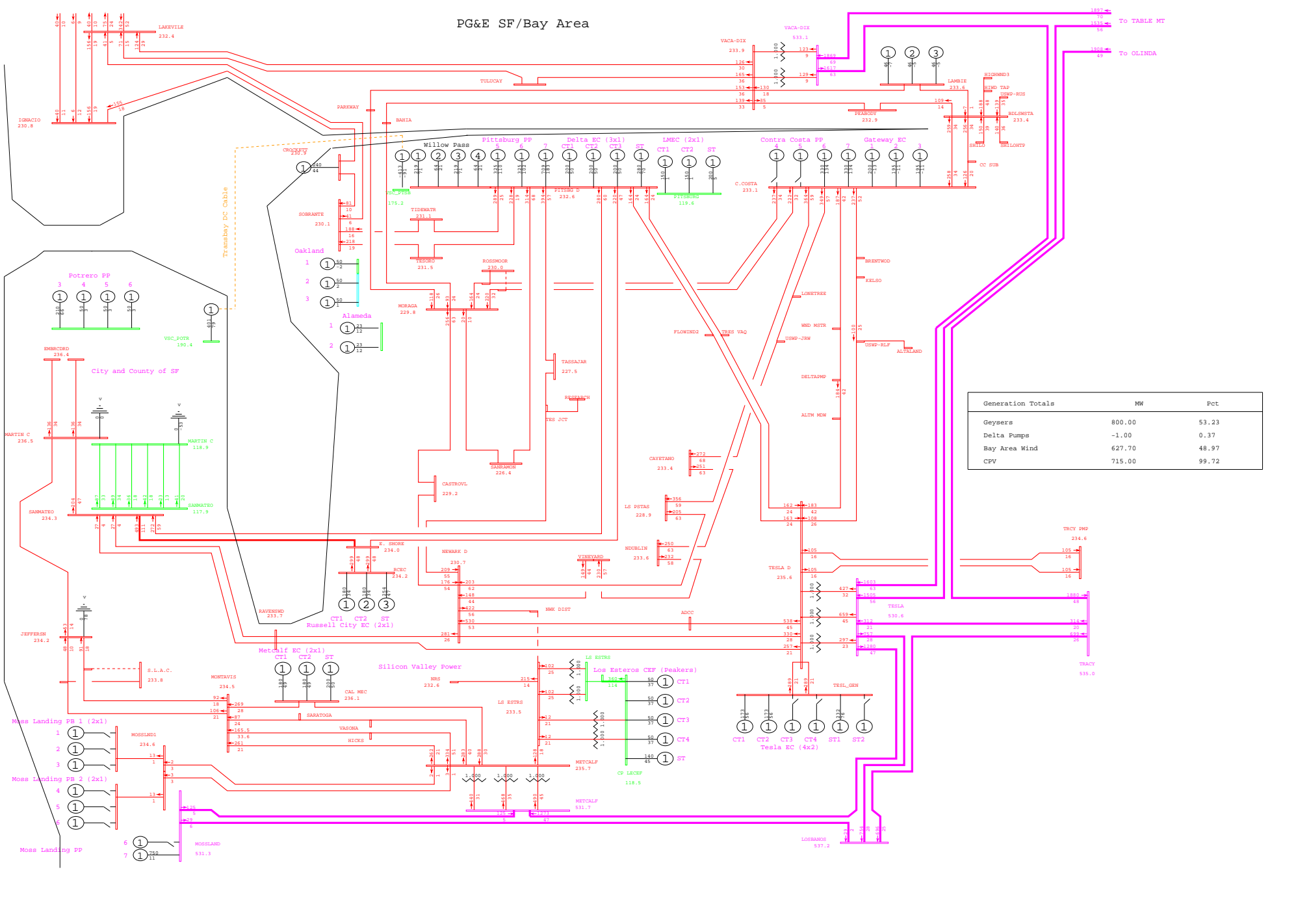
PG&E SF/Bay Area



PG&E SF/Bay Area



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:35 2008 wlopssv2-2013mrnt_pst_ptsb-355.sav

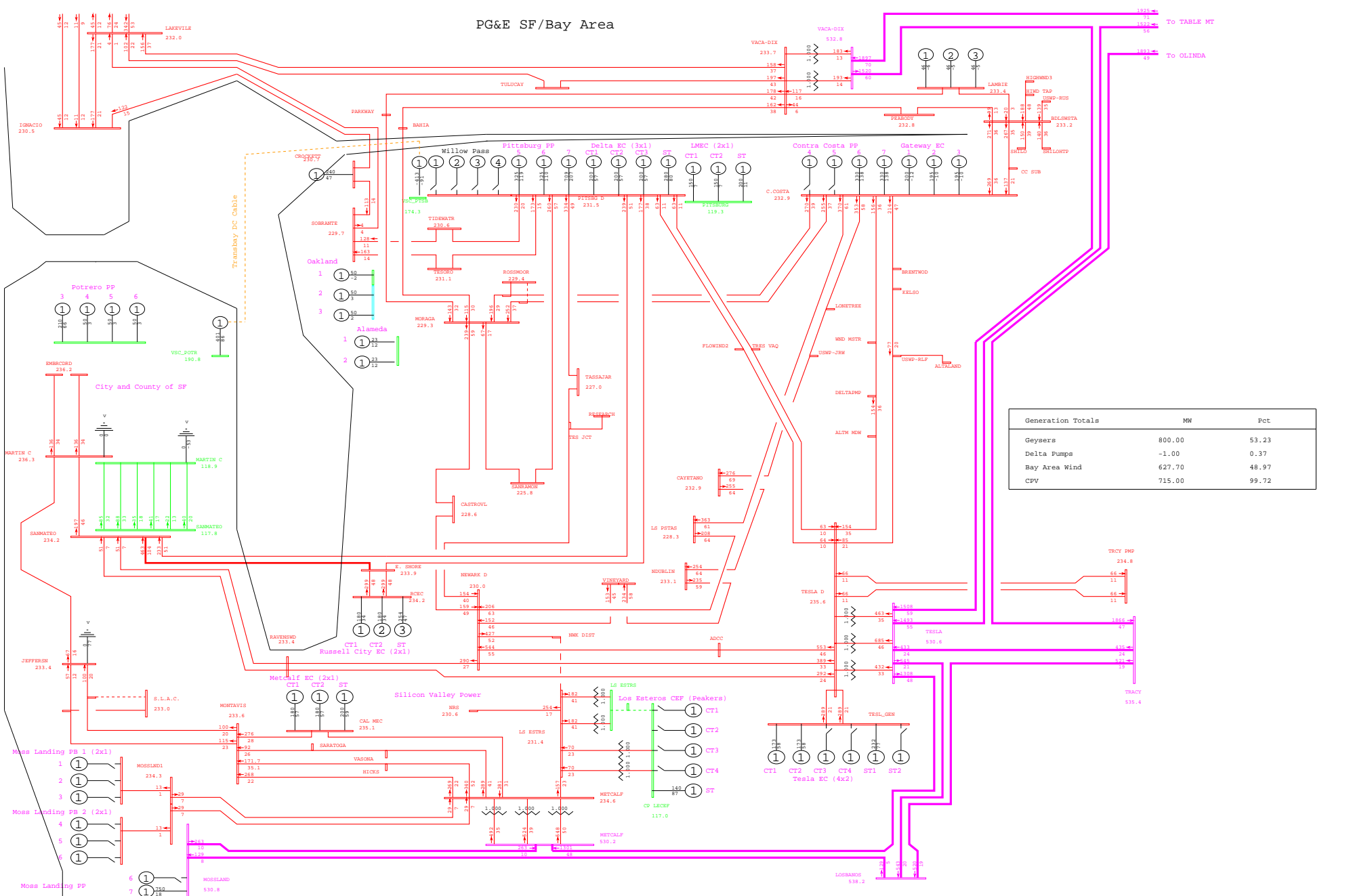


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-1 METCALF E - PIERCY 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 355

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:46 2008 wlopssv2-2013mrnt_pre_ptsb-359.sav

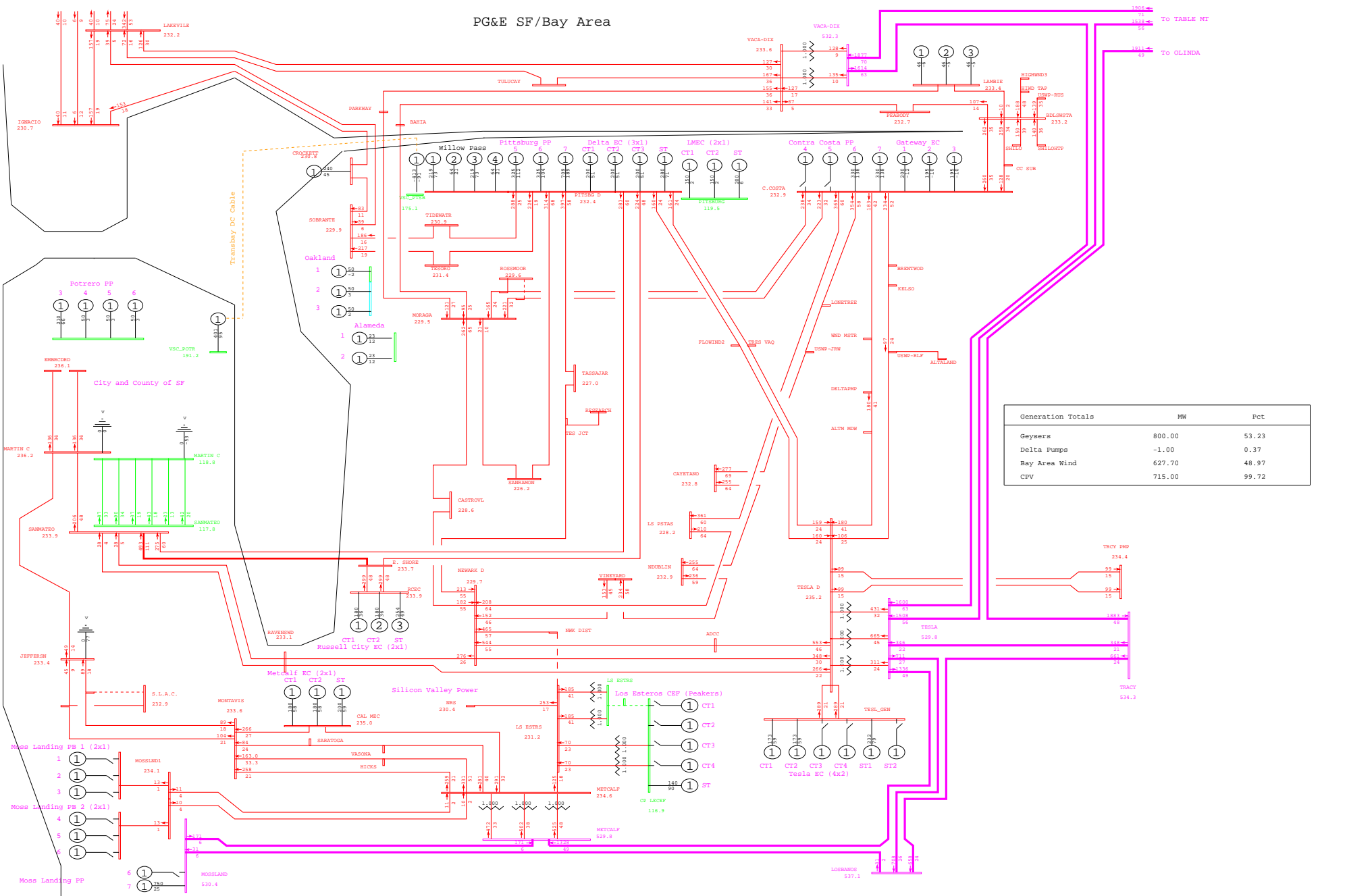


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

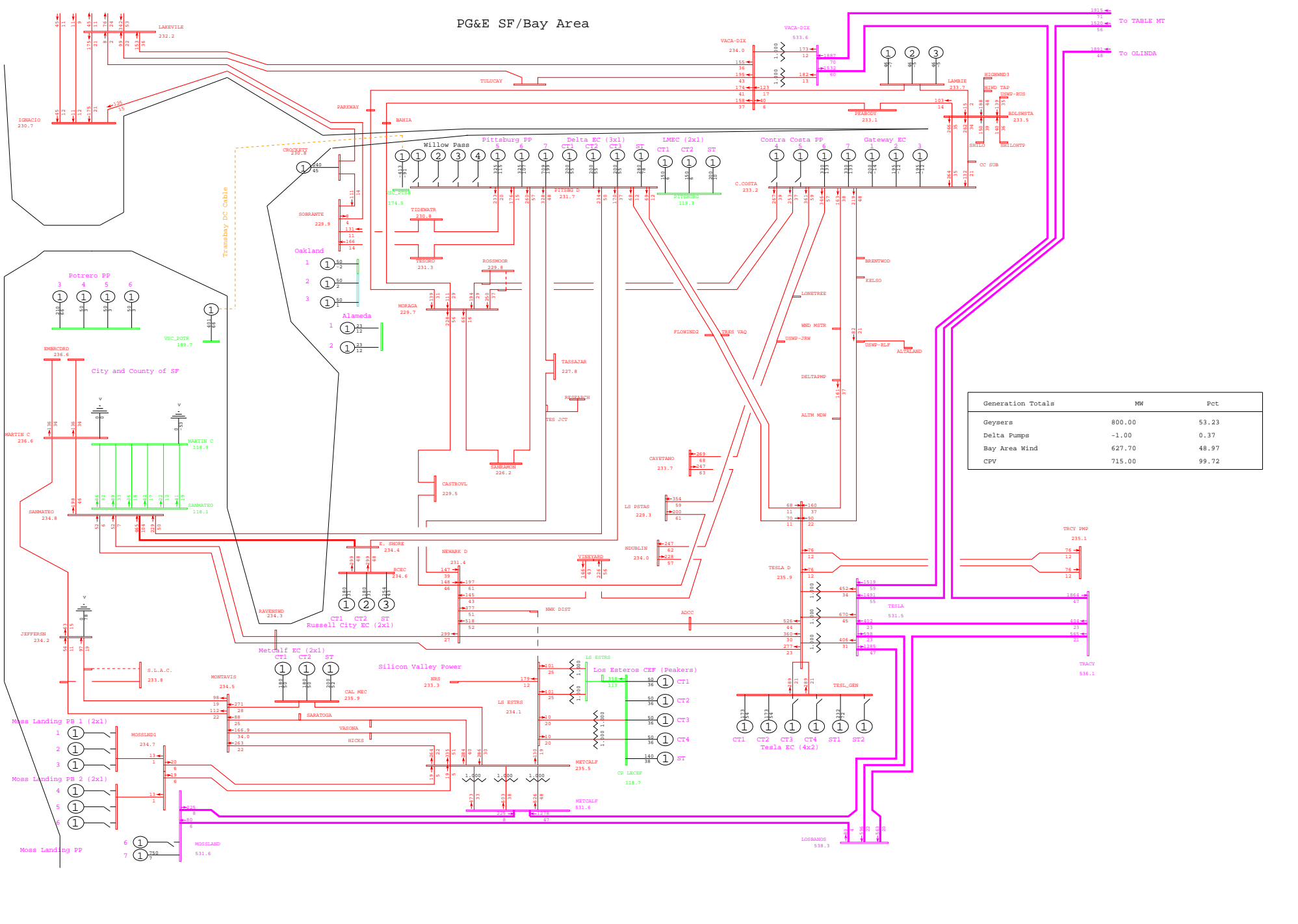
N-1 NORTECH - CP LECEP 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 359

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



PG&E SF/Bay Area



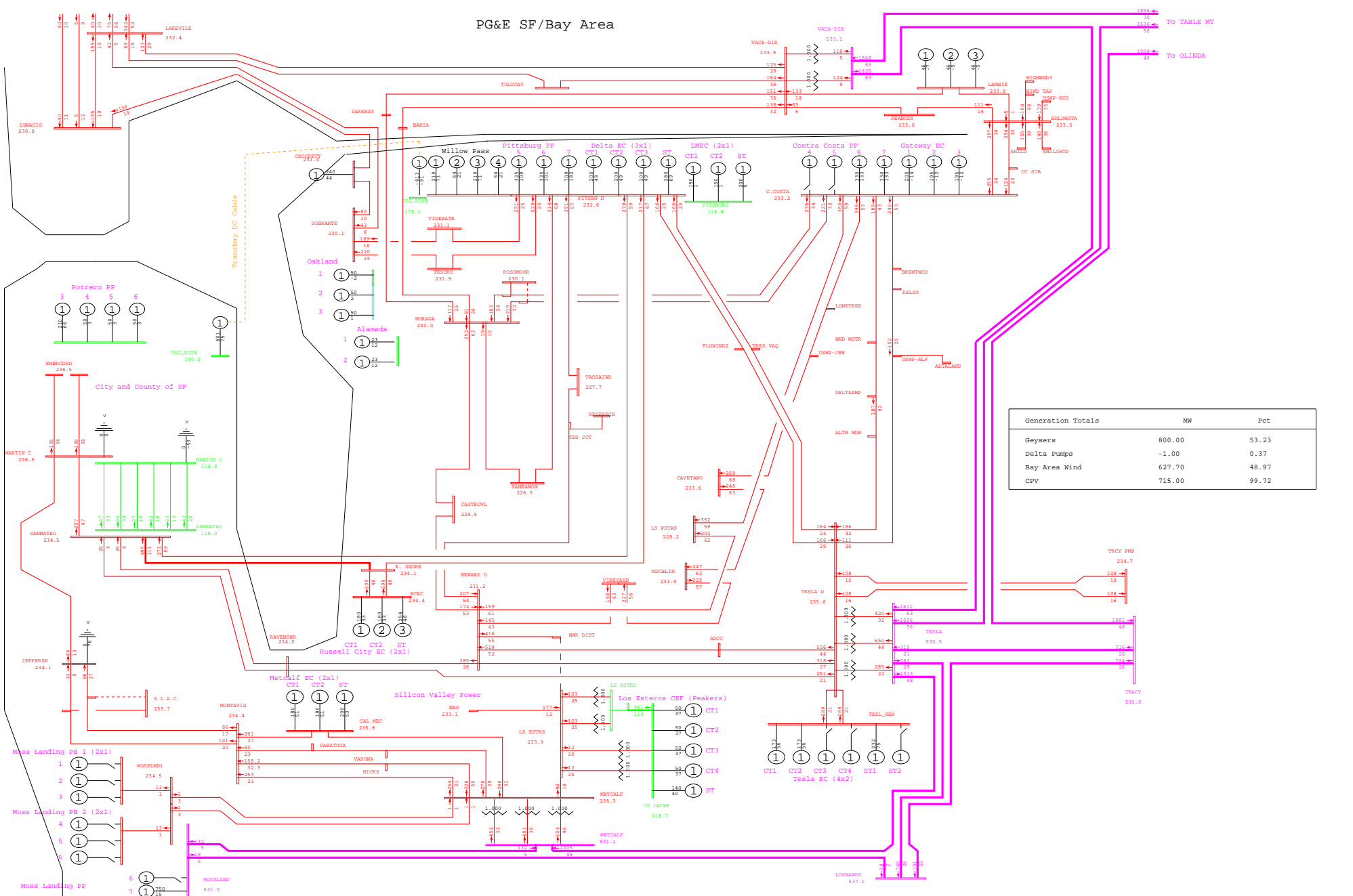
General Electric International, Inc. PSLF Program Fri Sep 26 20:52:47 2008 wlopssv2-2013mrnt_pre_ptsb-361.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 CSC KIFER - DVR PP 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 361
 MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:37 2008 wlopssv2-2013mrnt_pst_ptsb-361.sav

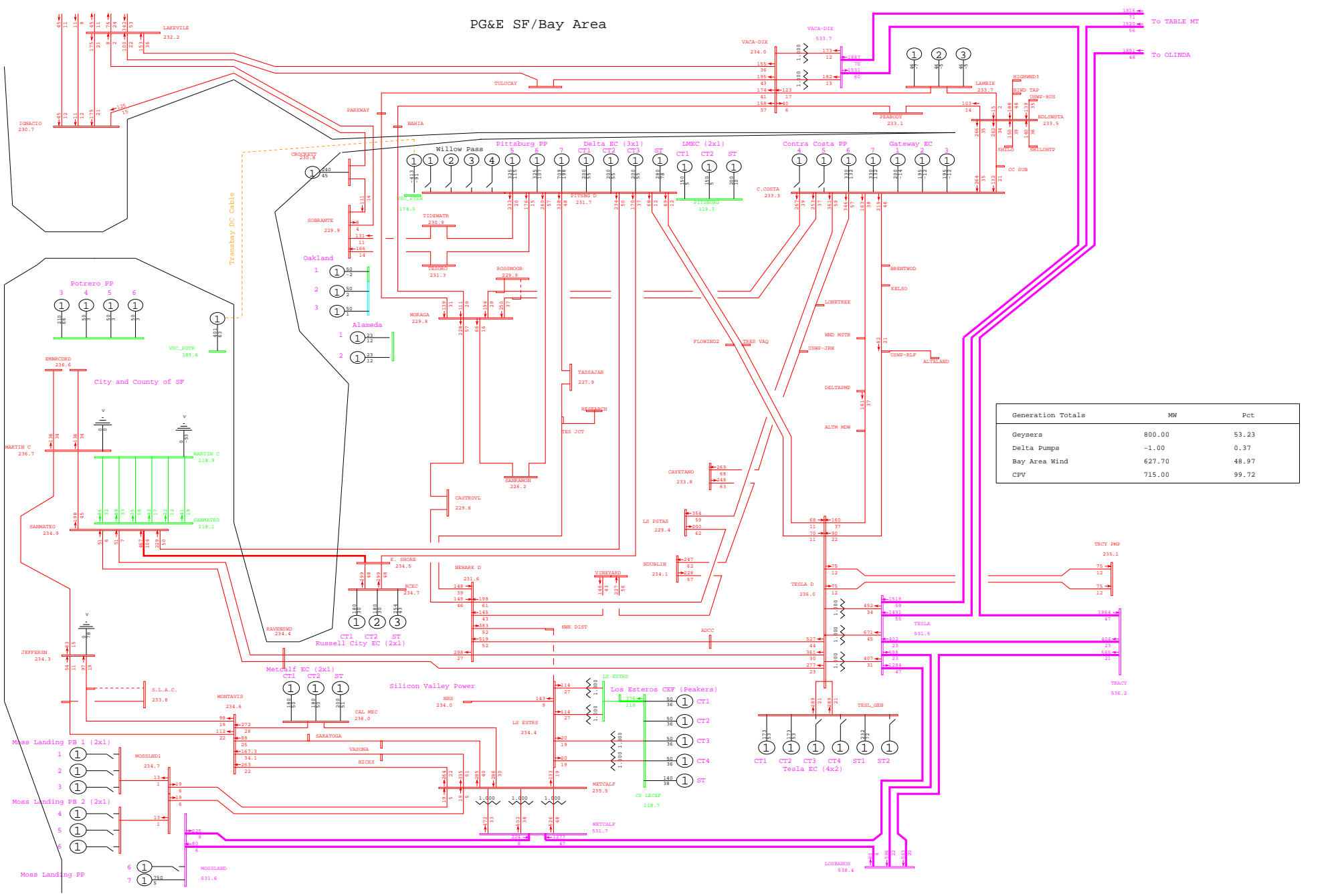


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 CSC KIFER - DVR PP 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 361

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:49 2008 wlopssv2-2013mrnt_pre_ptsb-362.sav

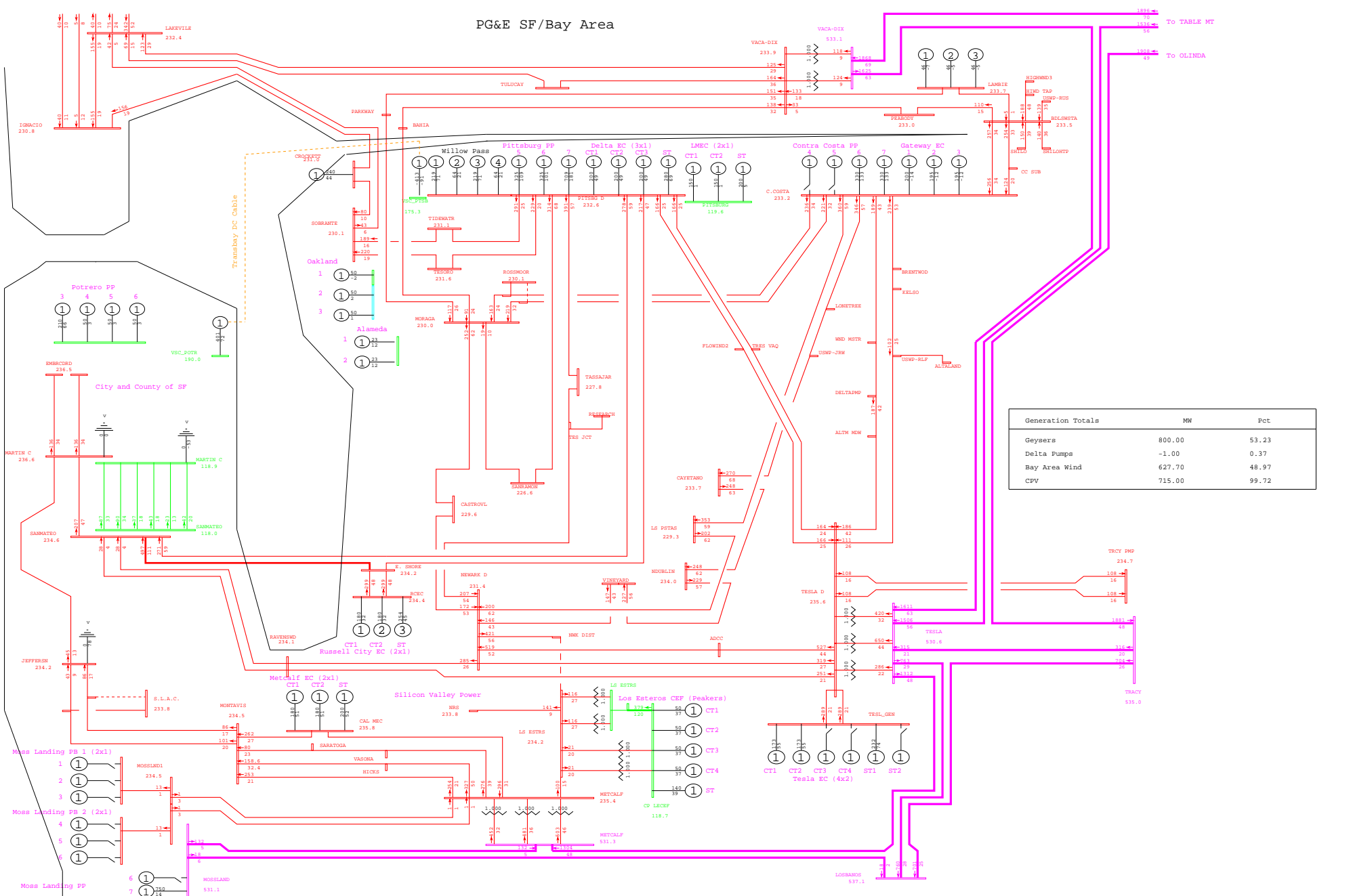


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 CSC NORTHERN - SCOTT #1 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 362

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:38 2008 wlopssv2-2013mrnt_pst_ptsb-362.sav

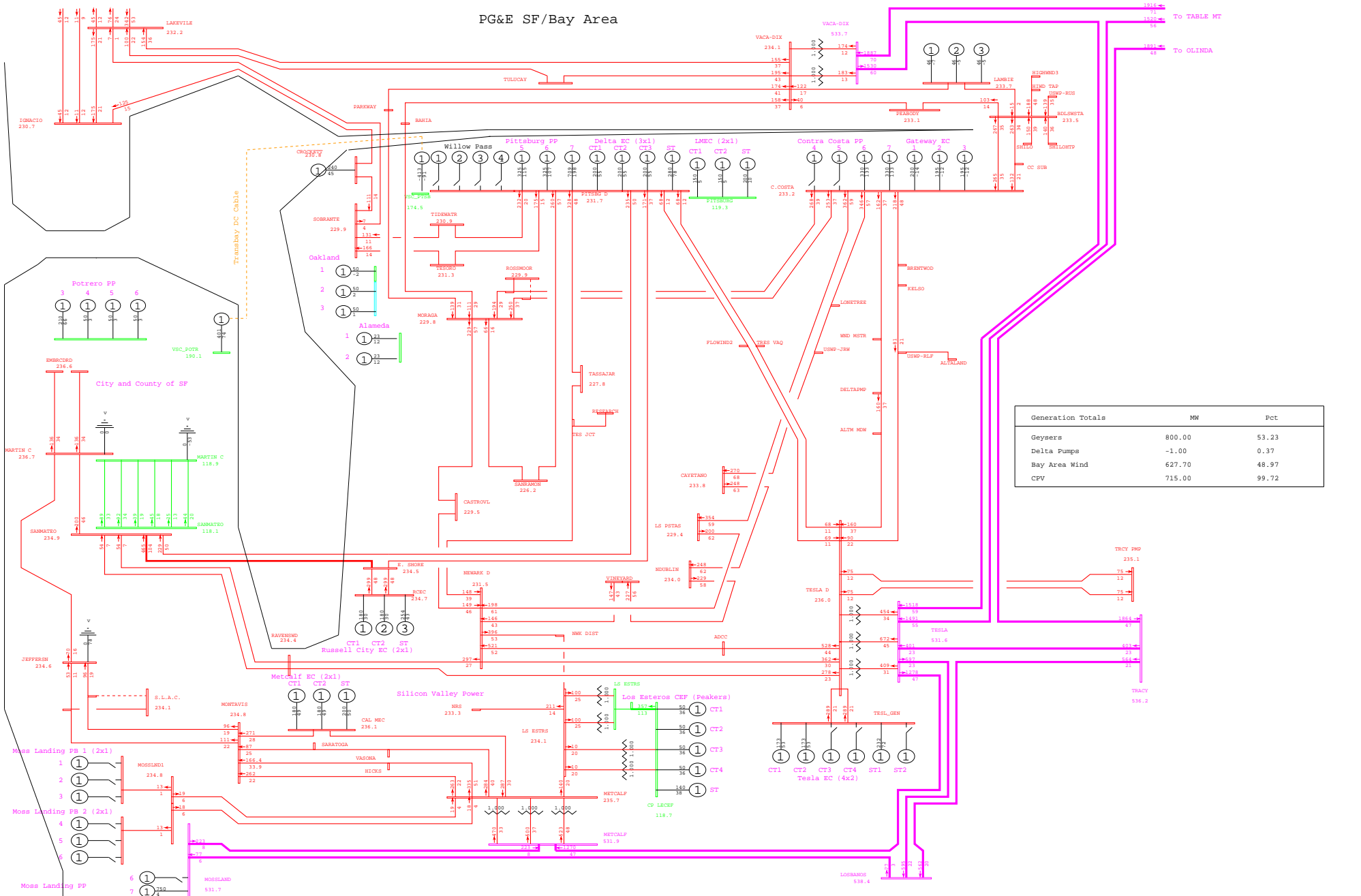


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

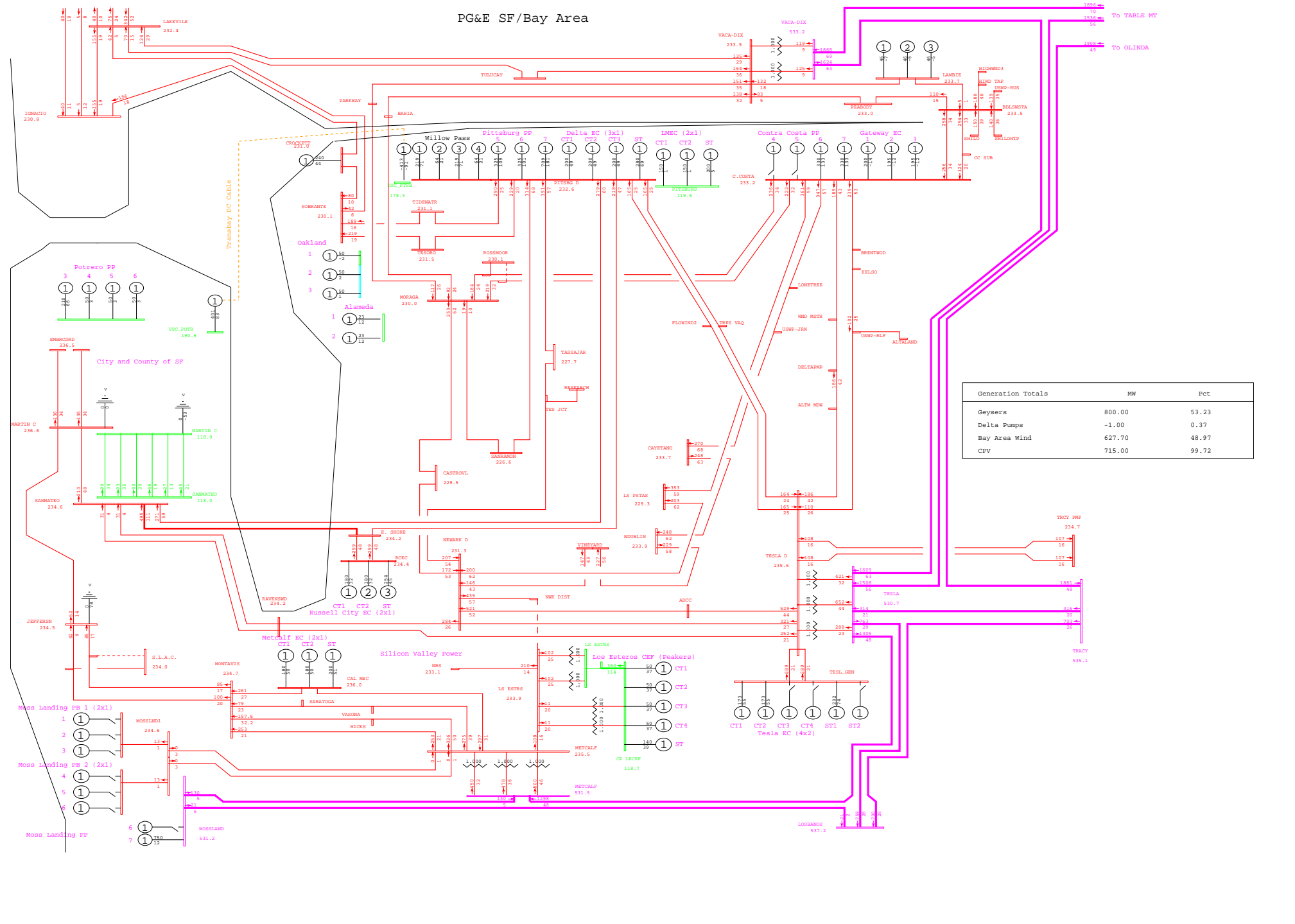
N-1 CSC NORTHERN - SCOTT #1 115kV LINE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 362

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:39 2008 wlopssv2-2013mrnt_pst_ptsb-379.sav

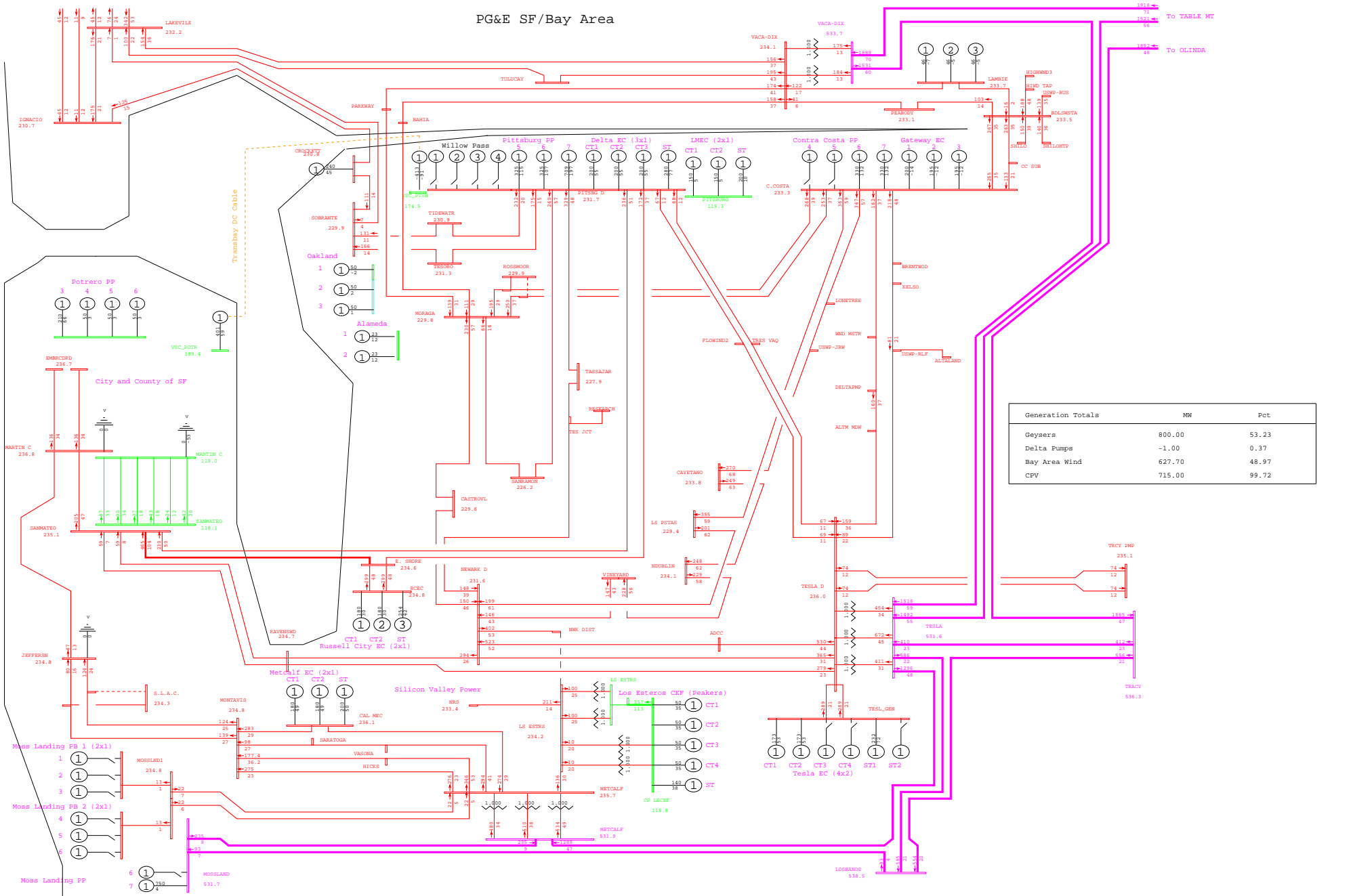


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 HALF MOON BAY - HILLSDALE JCT 60kV LINE
wlopssv2.pfp, STEADY STATE, CASE NUMBER 379

MW/% rate
bayarea_2013_PGE_v4.0.rtf
Rating = 2

PG&E SF/Bay Area



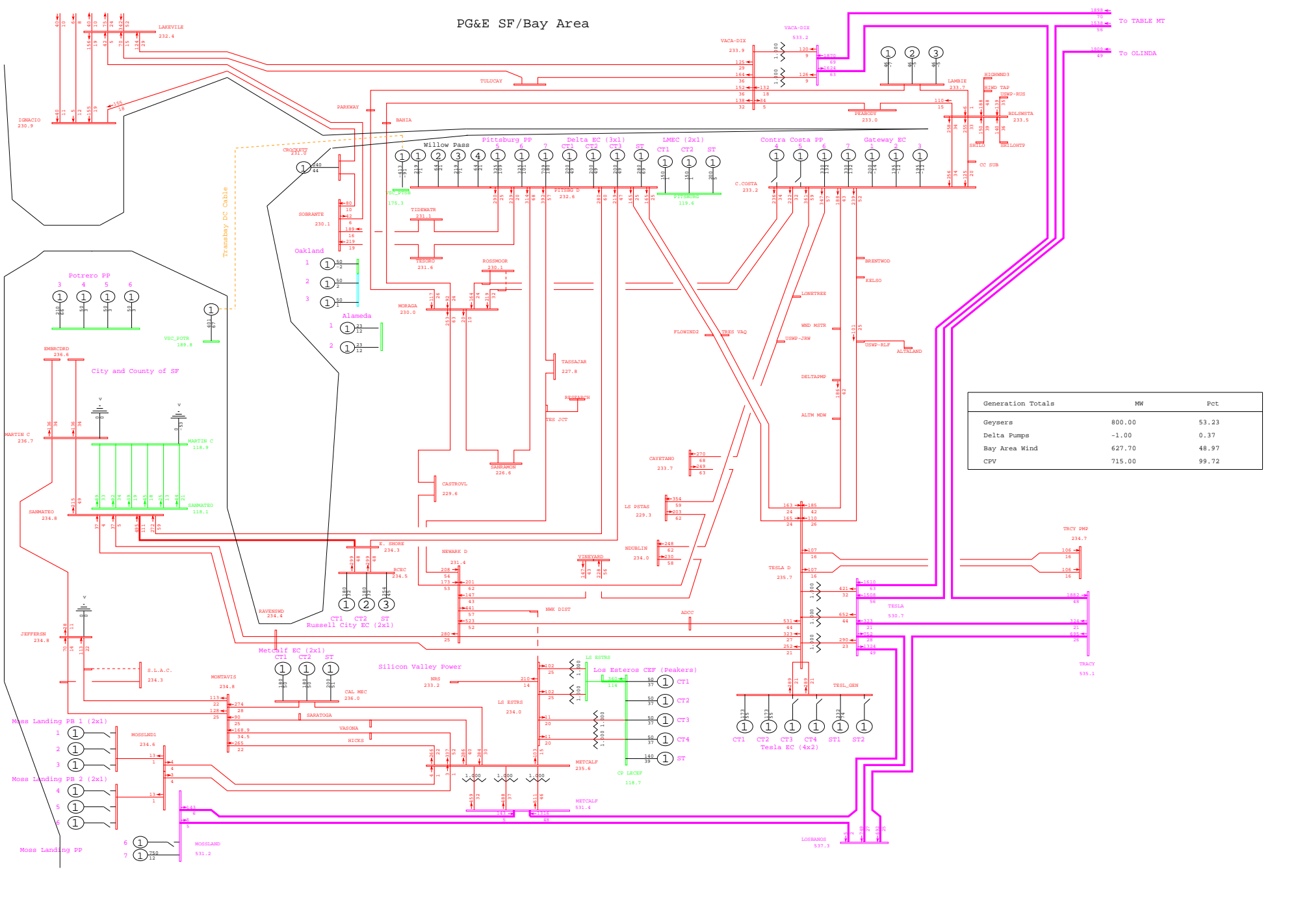
General Electric International, Inc. PSLF Program Fri Sep 26 20:52:51 2008 wlopssv2-2013mrnt_pre_ptsb-384.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 COOLEY LANDING - STANDFORD 60kV LINE (CLY LNDG-SRI)
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 384
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



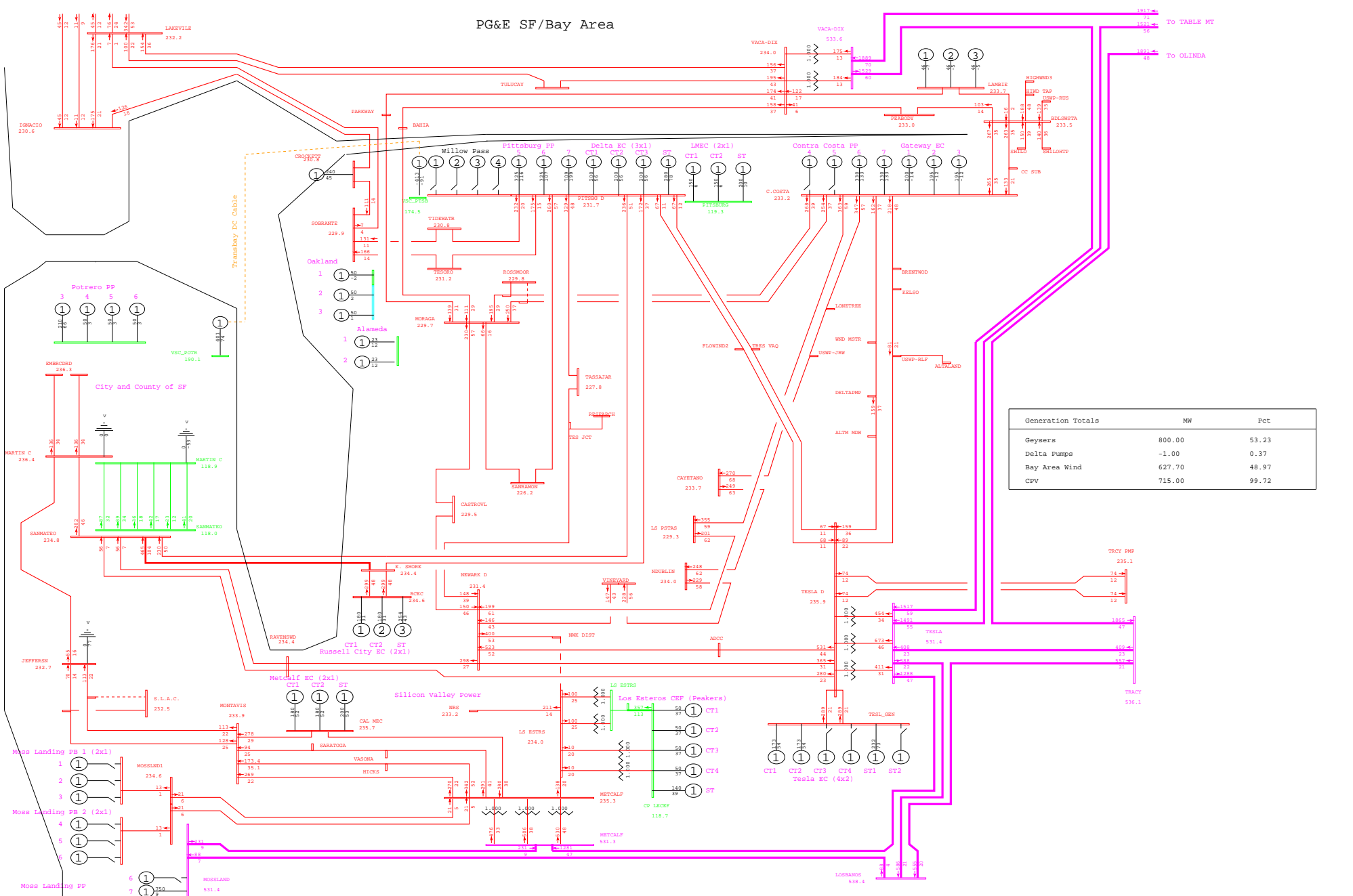
General Electric International, Inc. PSLF Program Fri Sep 26 20:49:39 2008 wlopssv2-2013mrnt_pst_ptsb-384.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 COOLEY LANDING - STANDFORD 60kV LINE (CLY LNDG-SRI)
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 384
 MW/% rate
 bayarea_2013_PGE_v4.0.rtf
 Rating = 2

PG&E SF/Bay Area



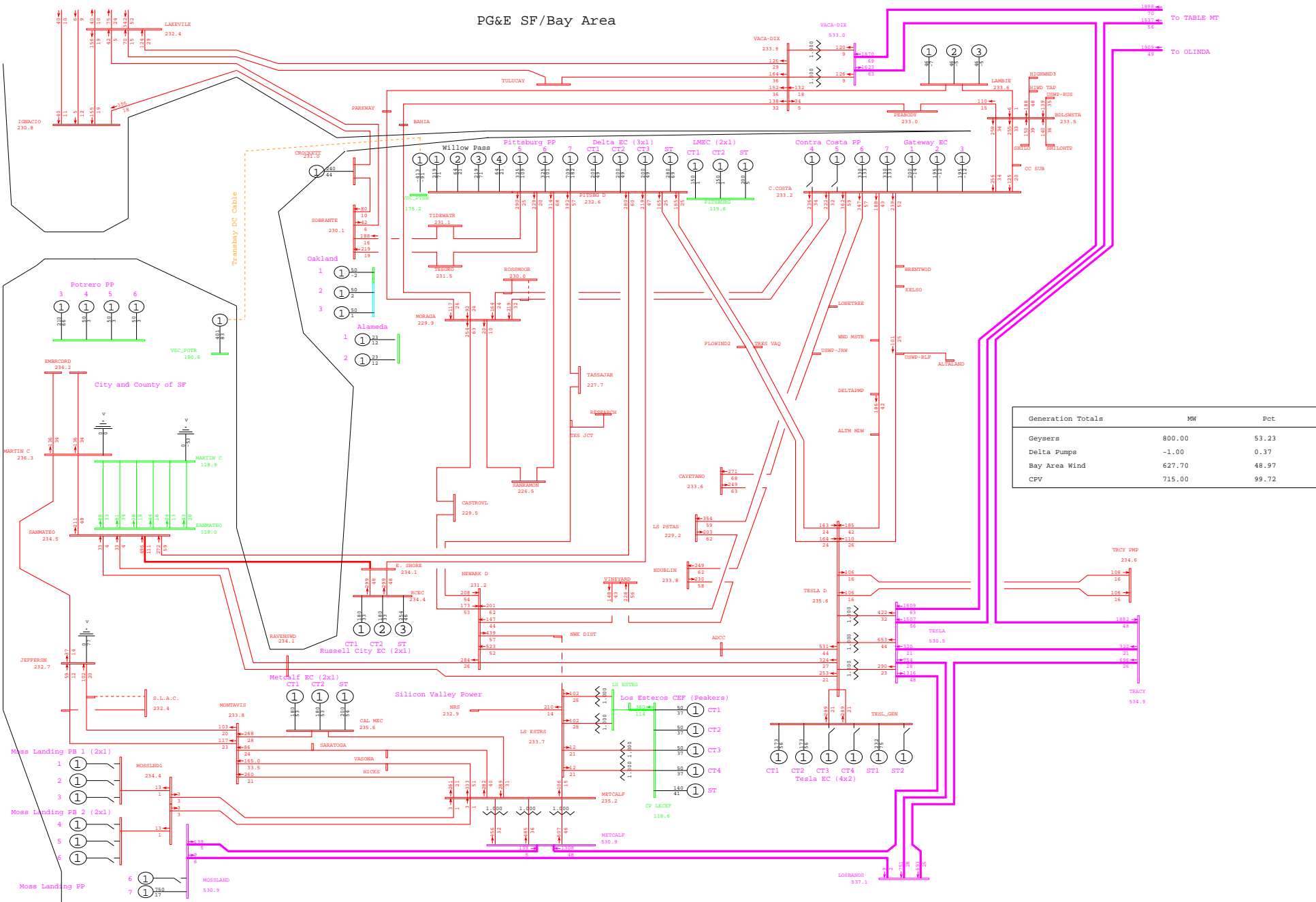
General Electric International, Inc. PSLF Program Fri Sep 26 20:52:52 2008 wlopssv2-2013mrnt_pre_ptsb-389.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 COOLEY LANDING - STANDFORD 60kV LINE (SRI-MENLO)
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 389
 MW/% rate
 bayarea_2013_PGE_v4.cfw
 Rating = 2

PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

General Electric International, Inc. PSLF Program Fri Sep 26 20:49:40 2008 wlopssv2-2013mrnt_pst_ptsb-389.sav

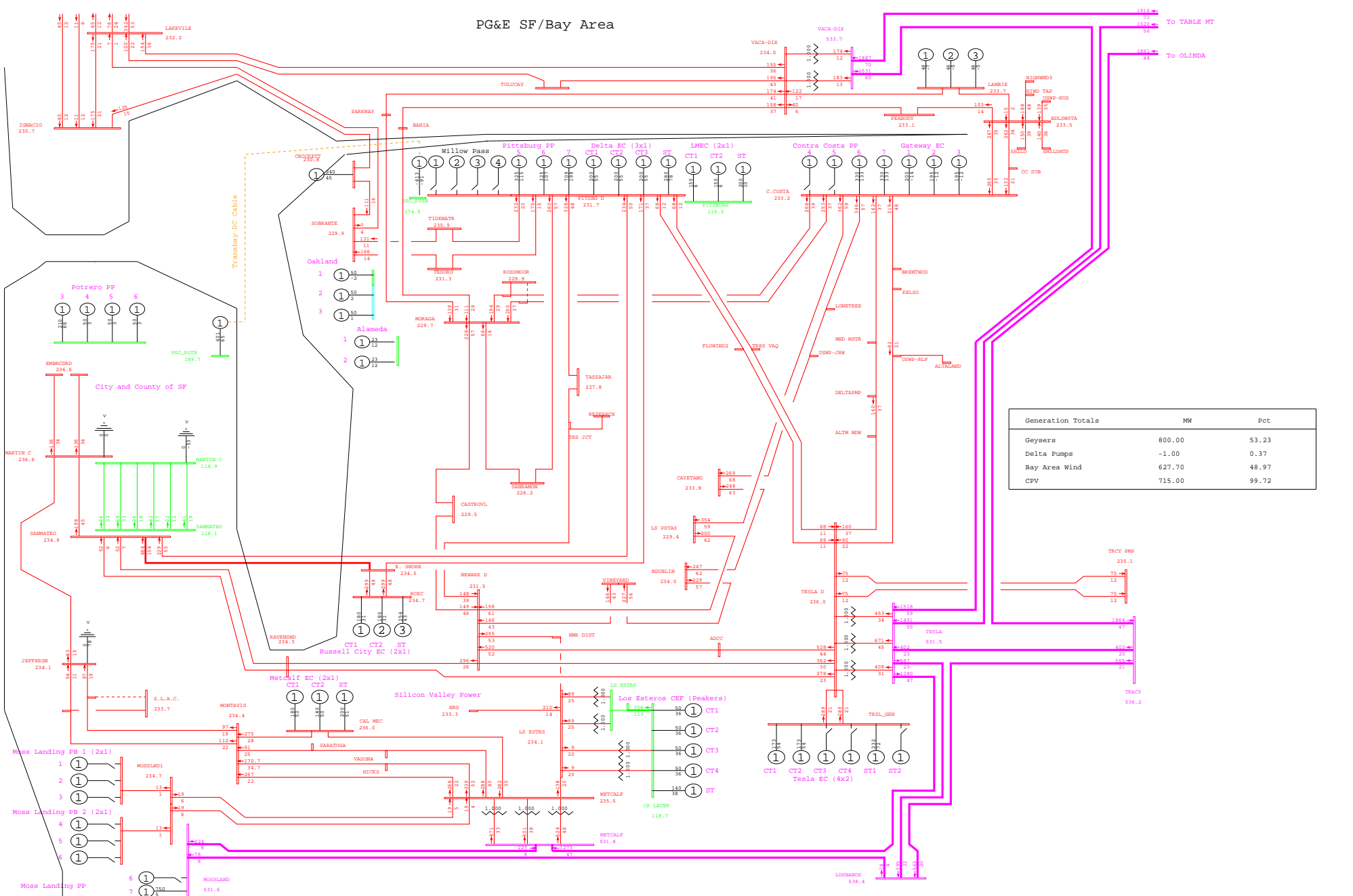


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

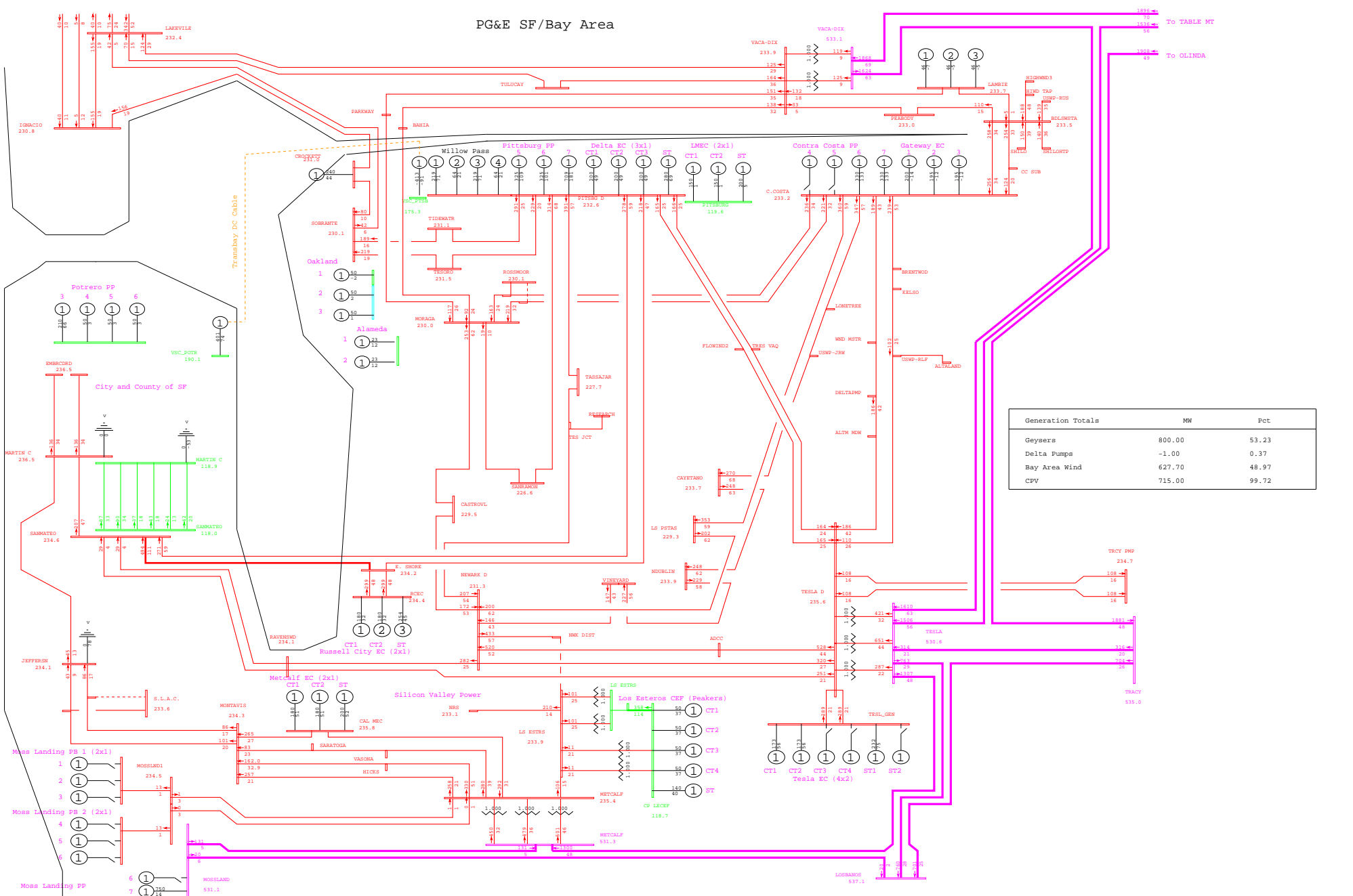
N-1 COOLEY LANDING - STANDFORD 60kV LINE (SRI-MENLO)
wlopssv2.pfp, STEADY STATE, CASE NUMBER 389

MW/% rate
bayarea_2013_PGE_v4.0.rtf
Rating = 2

PG&E SF/Bay Area



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:42 2008 wlopssv2-2013mrnt_pst_ptsb-403.sav

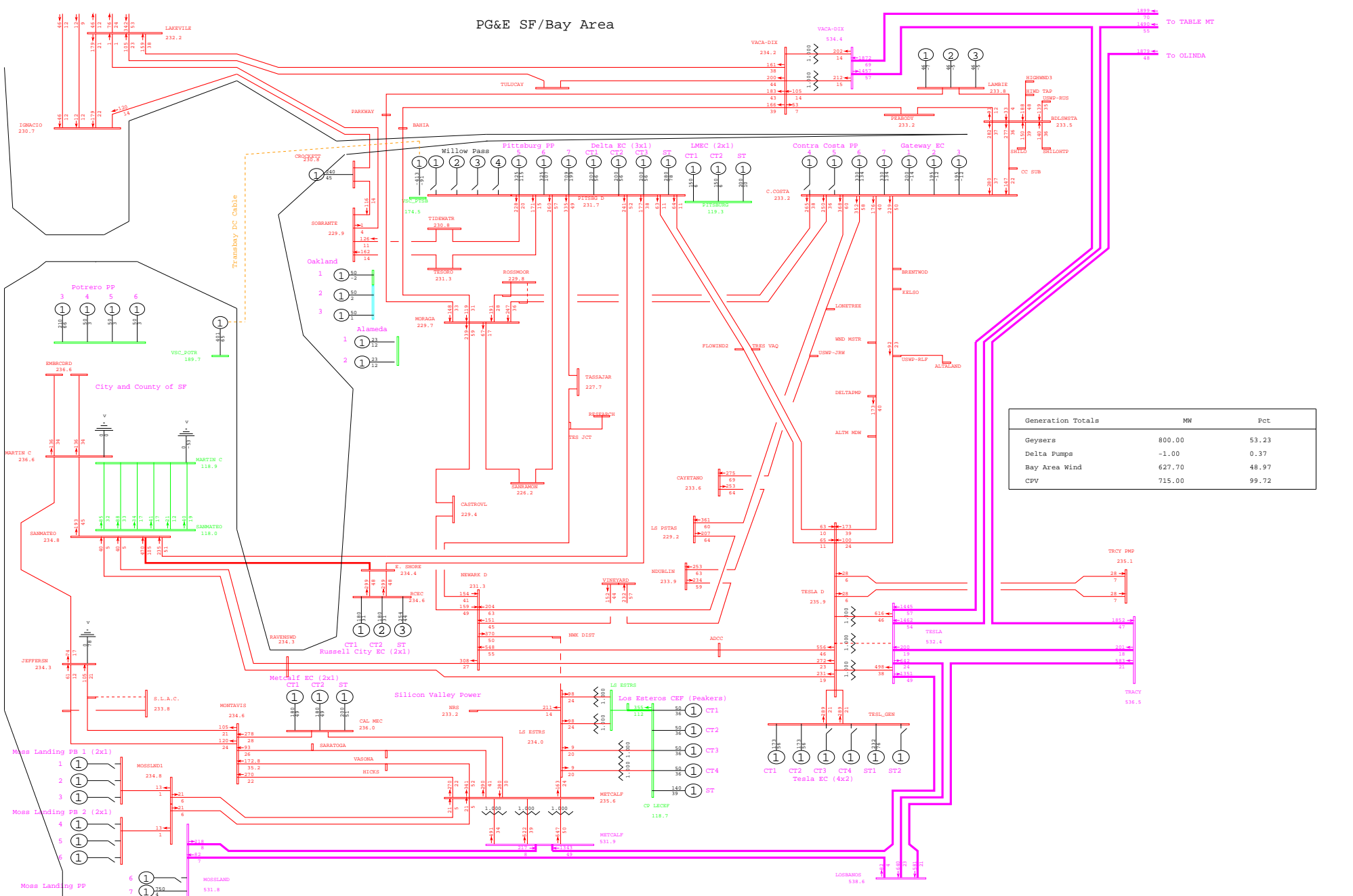


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-1 EVERGREEN - SENTER - ALMADEN 60kV LINE (Xfr. Almaden)
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 403

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



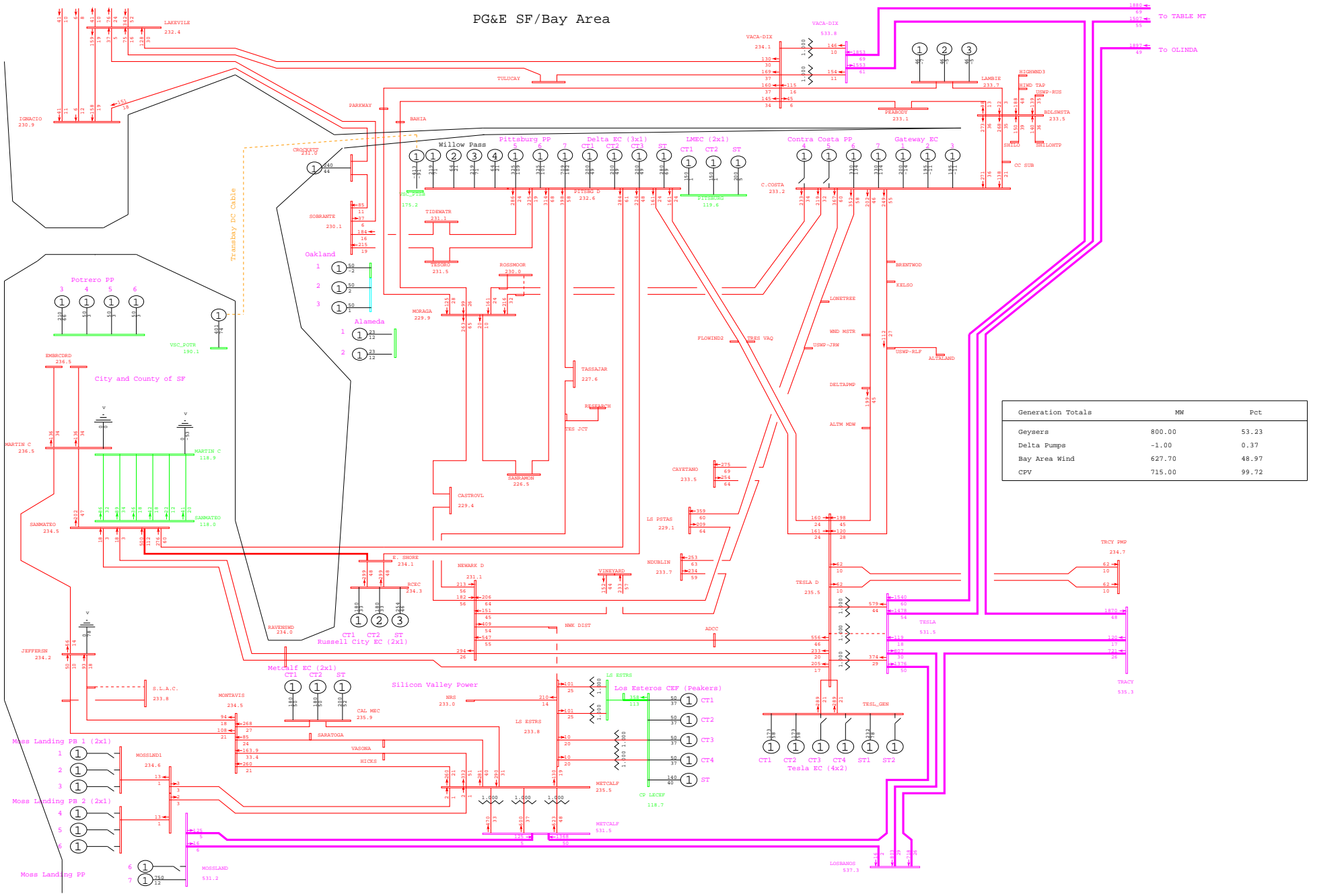
General Electric International, Inc. PSLF Program Fri Sep 26 20:52:54 2008 wlopssv2-2013mrnt_pre_ptsb-406.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 TESLA 500/230kV #2 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 406
 MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

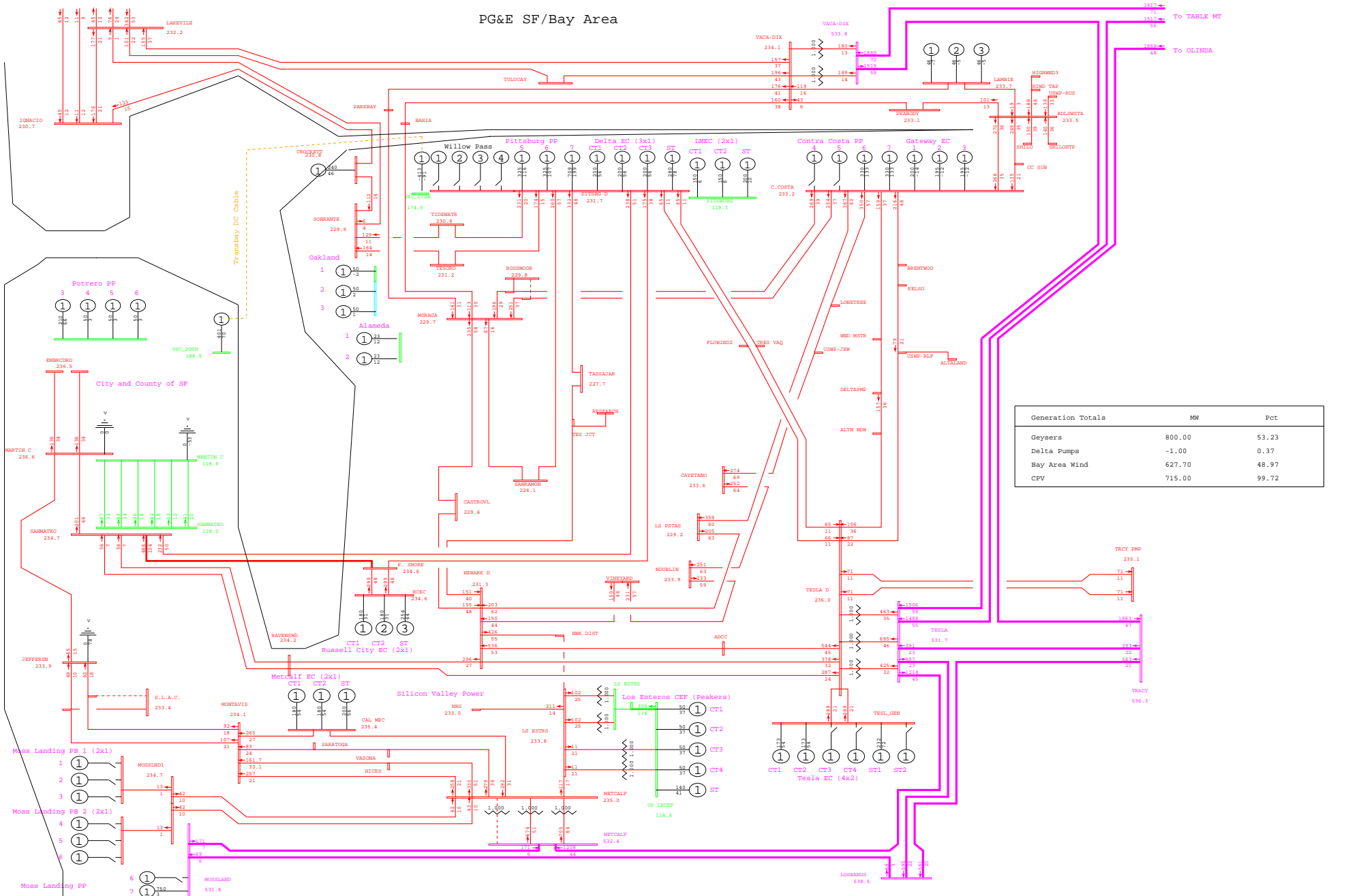
PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:55 2008 wlopssv2-2013mrnt_pre_ptsb-409.sav

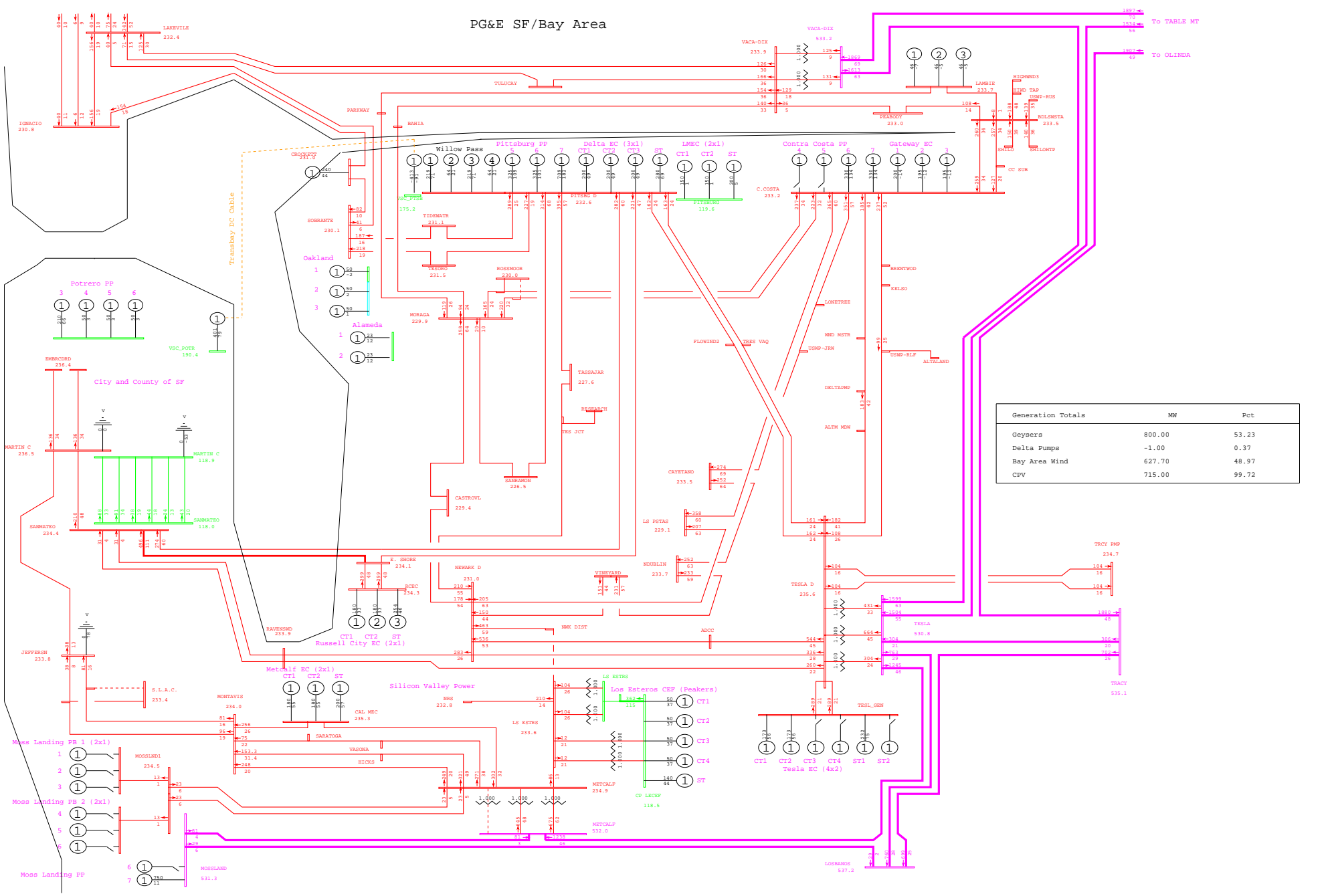


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 METOCALF 500/230kV #11 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 409

MW/% rate
 bayarea_2013_PGE_v4.cdw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:44 2008 wlopssv2-2013mrnt_pst_ptsb-409.sav

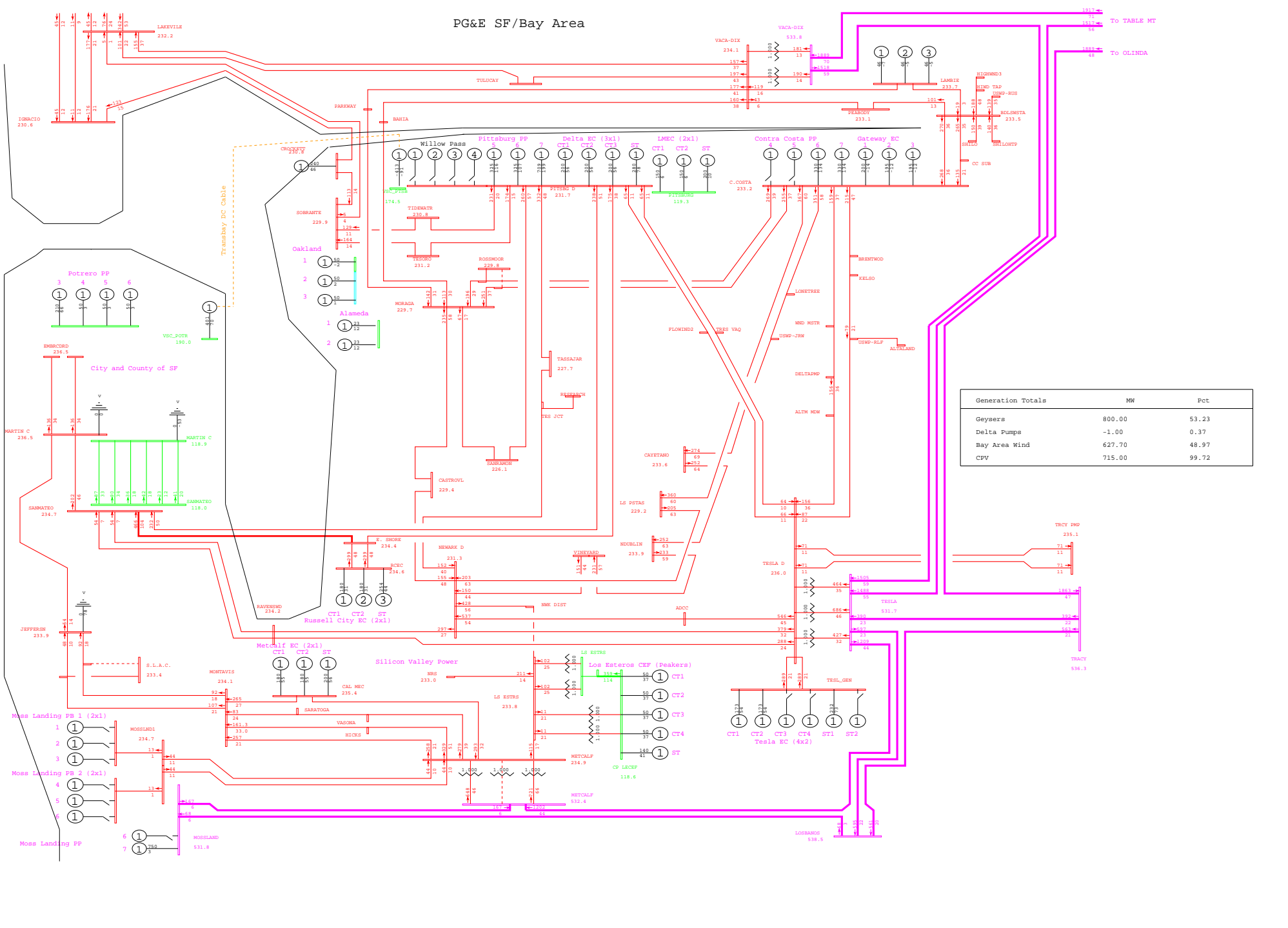


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 METCALF 500/230kV #11 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 409

MW/% rate
 bayarea_2013_PGE_v4.cdw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:56 2008 wlopssv2-2013mrnt_pre_ptsb-410.sav

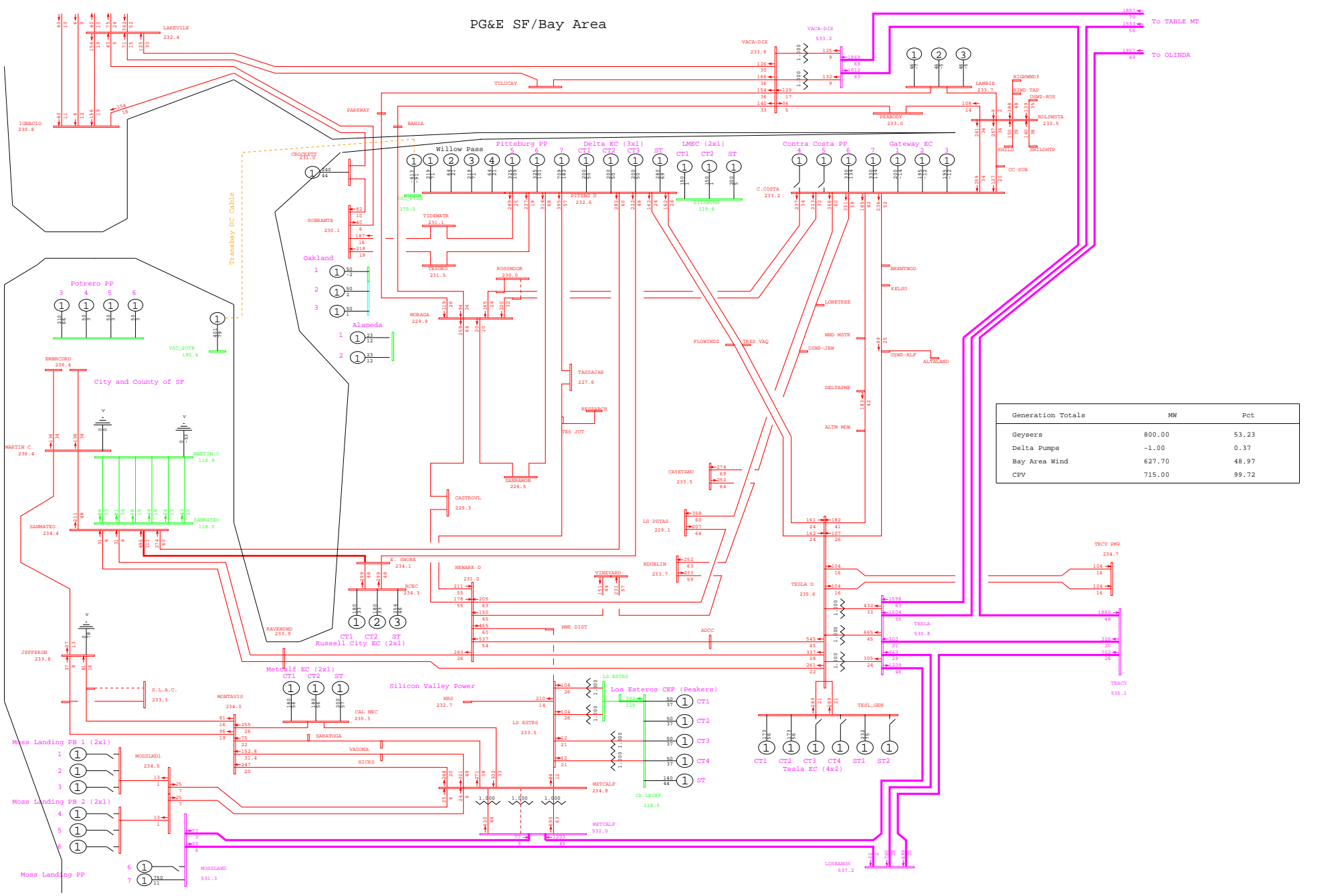


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 METCALF 500/230kV #12 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 410

MW/% rate
 bayarea_2013_PGE_v4.0.rvw
 Rating = 2

PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

General Electric International, Inc. PSLF Program Fri Sep 26 20:49:45 2008 wlopssv2-2013mrnt_pst_ptsb-410.sav

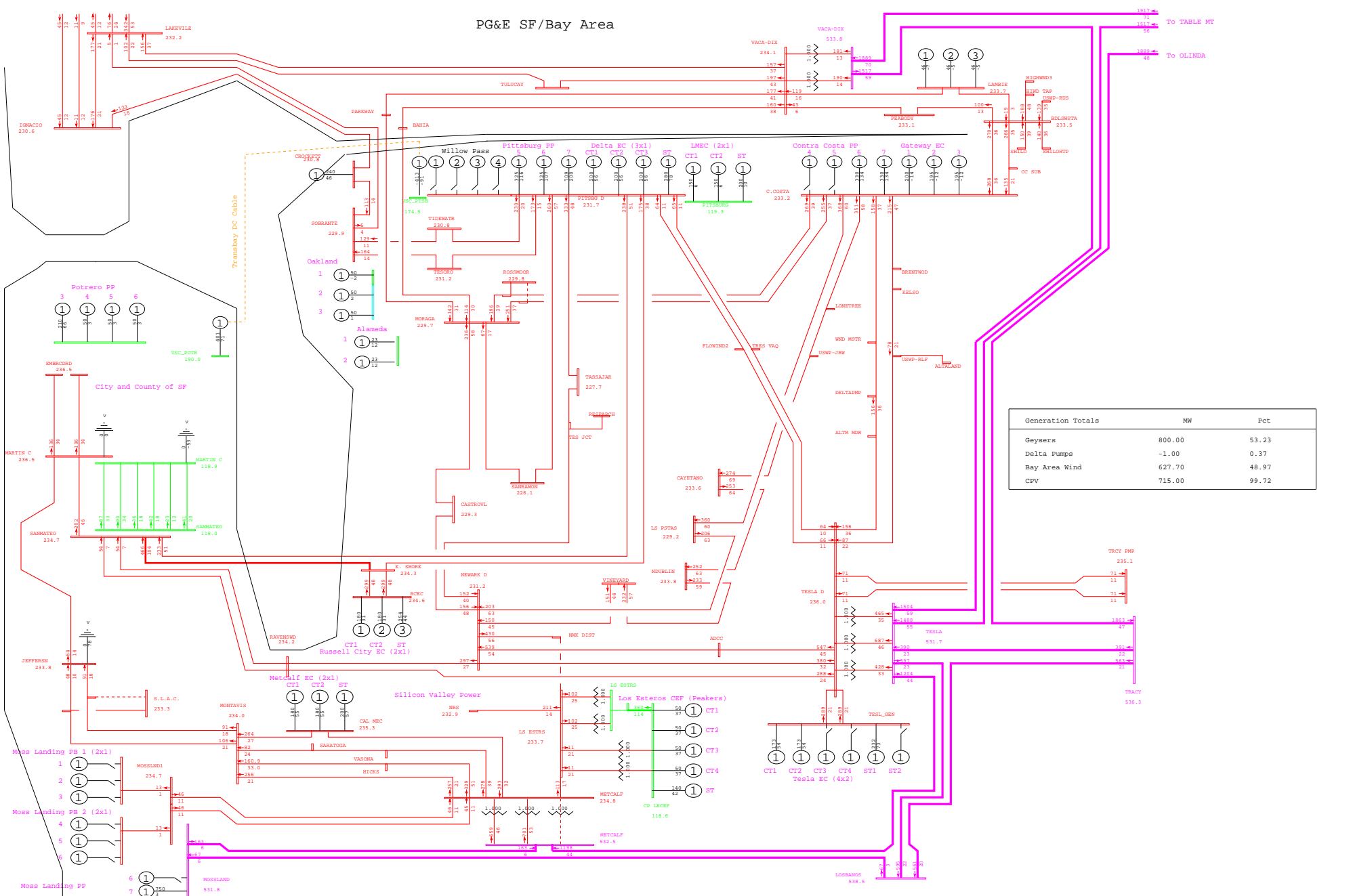


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 METCALF 500/230kV #12 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 410

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:57 2008 wlopssv2-2013mrnt_pre_ptsb-411.sav

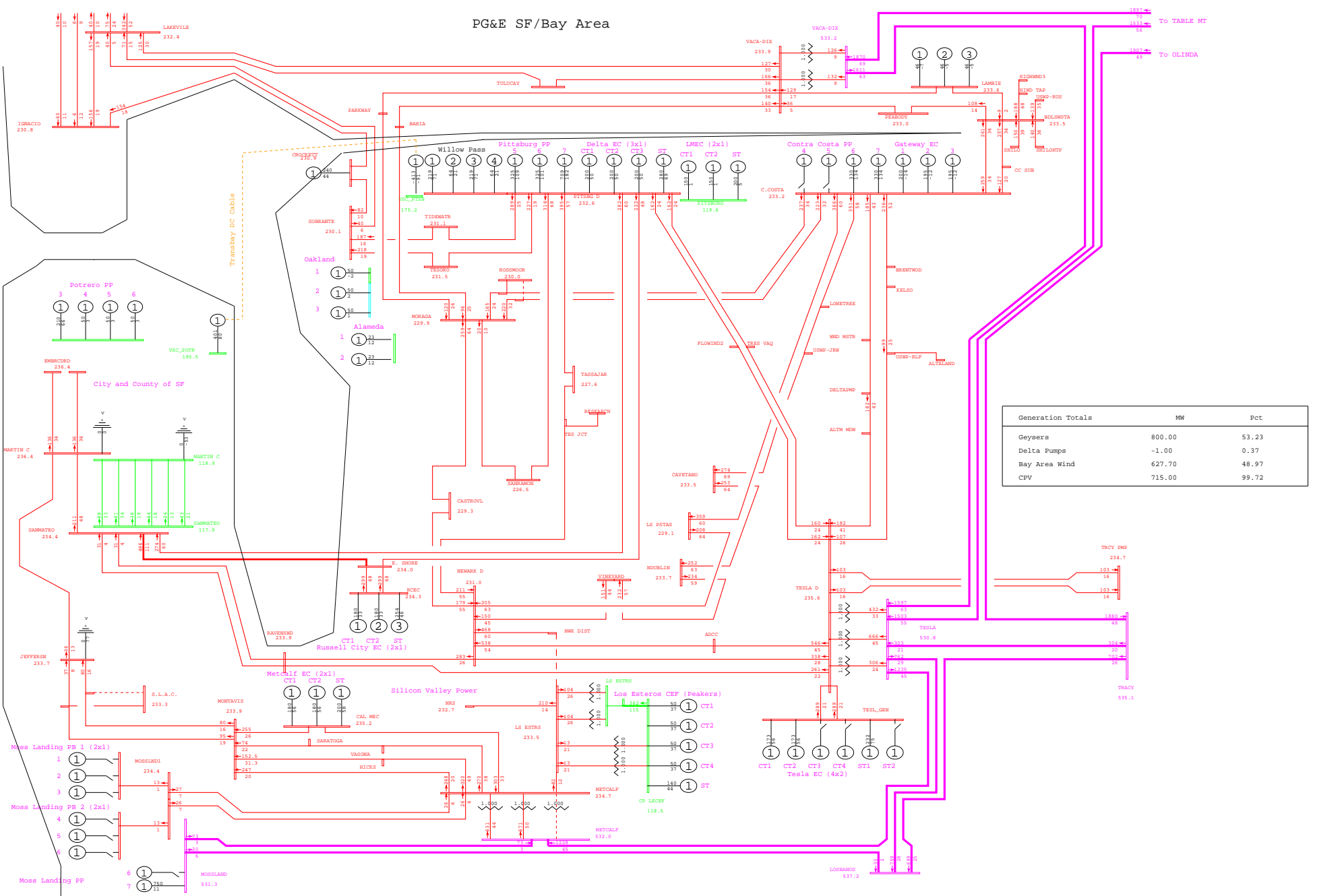


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 METCALF 500/230kV #13 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 411

MW/% rate
 bayarea_2013_PGE_v4.0.rtf
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:46 2008 wlopssv2-2013mrnt_pst_ptsb-411.sav

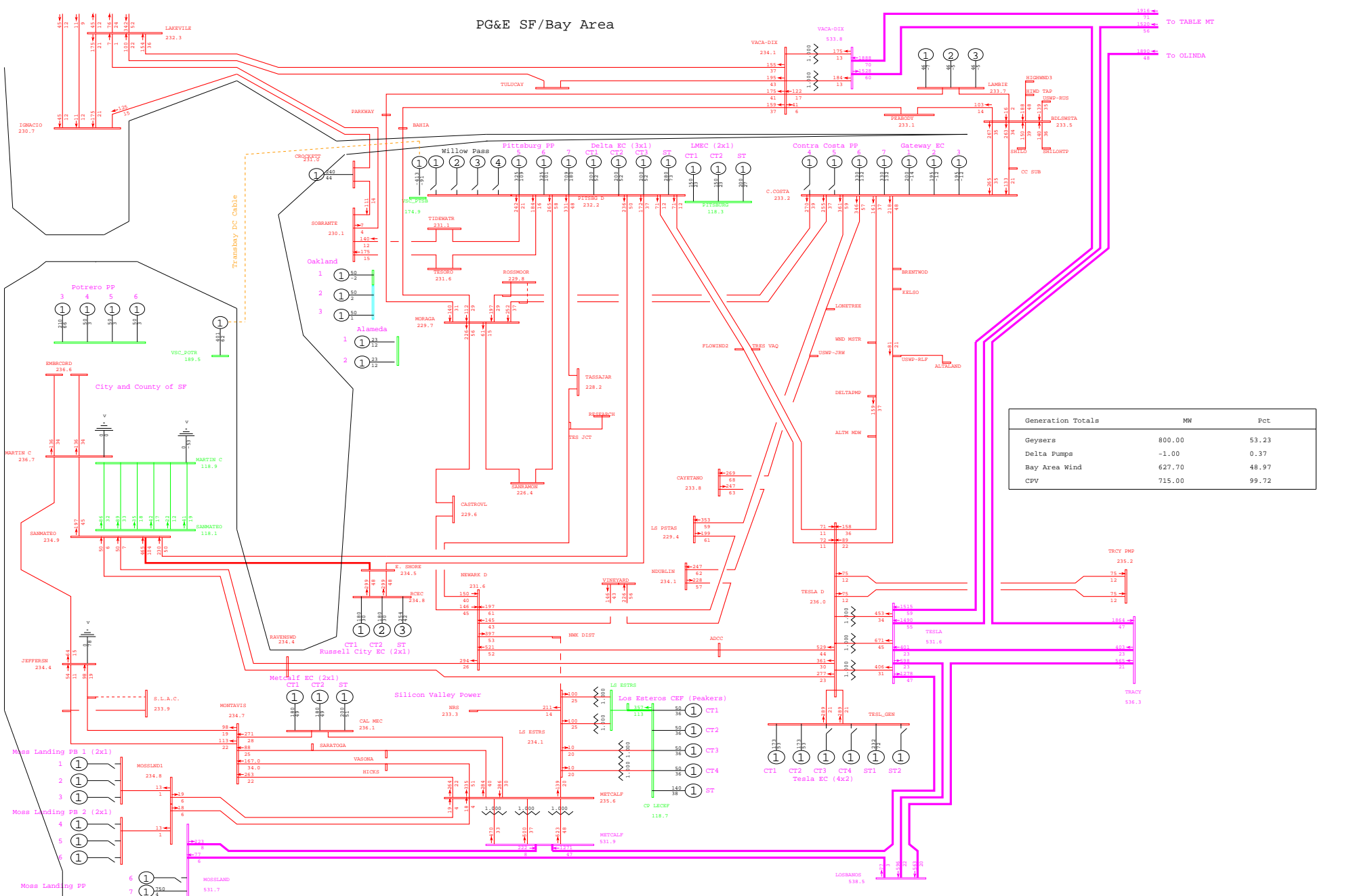


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


T-1 METOCALF 500/230kV #13 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 411

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:58 2008 wlopssv2-2013mrnt_pre_ptsb-418.sav

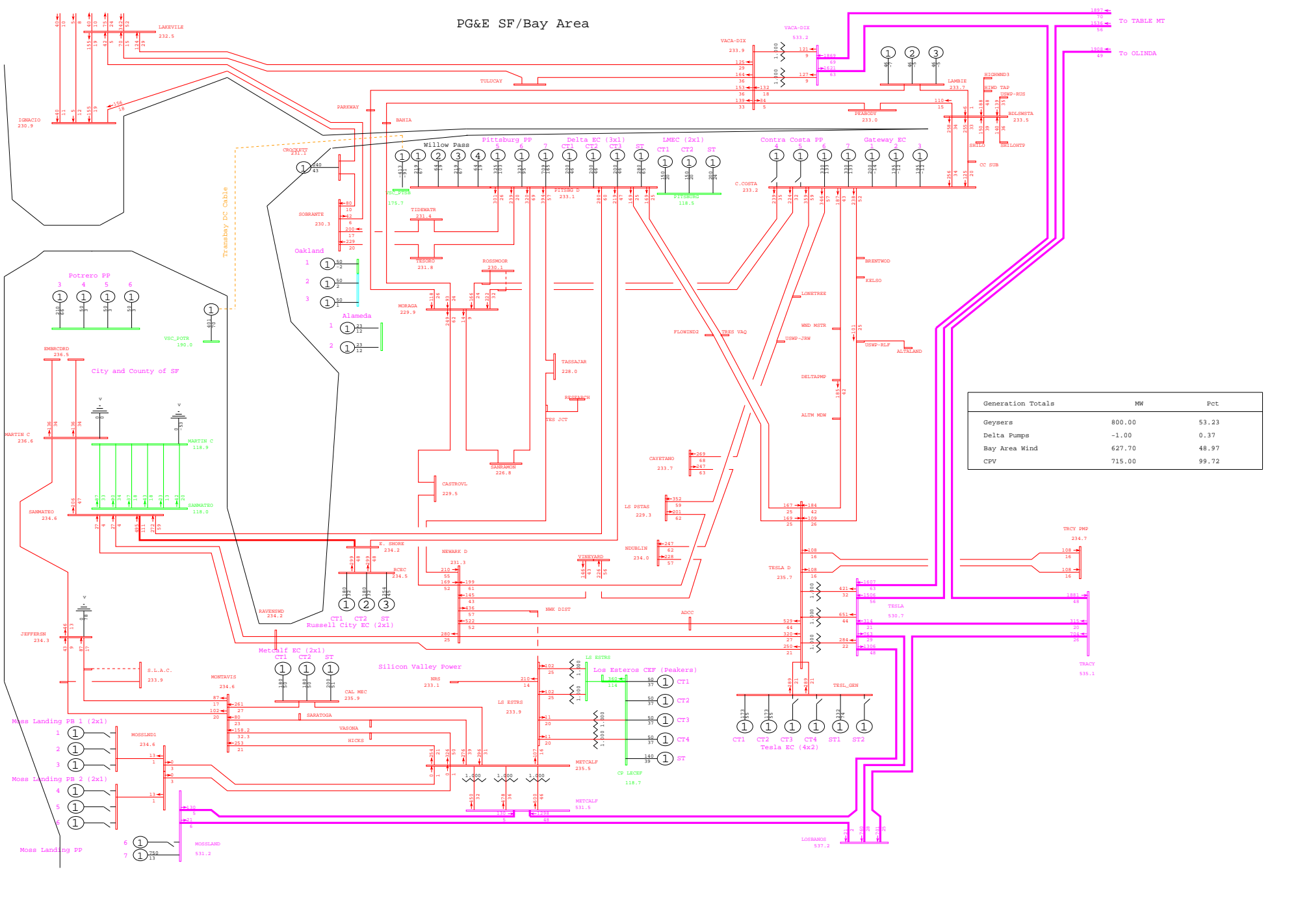


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 PITTSBURG 230/115kV #12 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 418

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



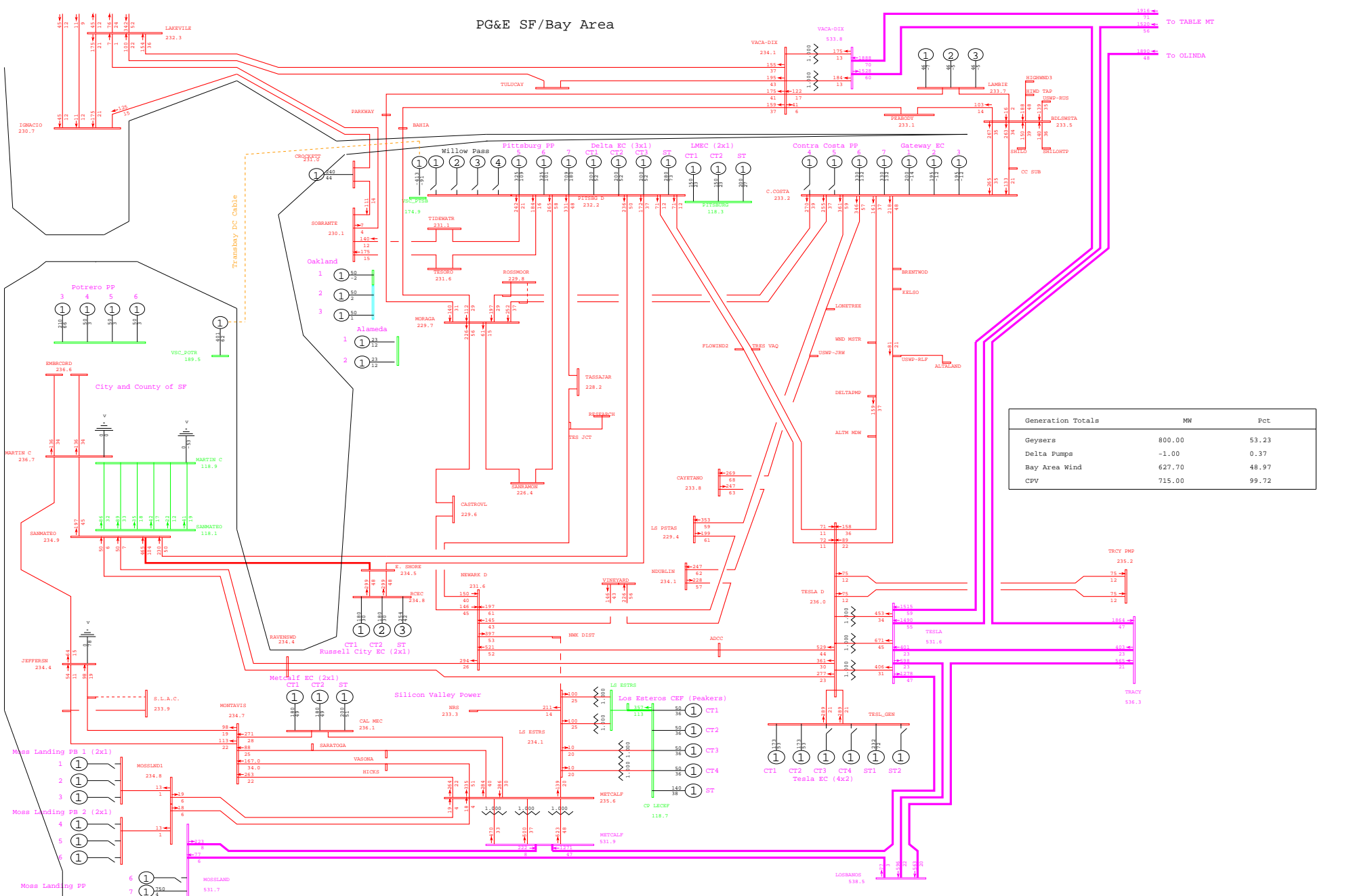
General Electric International, Inc. PSLF Program Fri Sep 26 20:49:47 2008 wlopssv2-2013mrnt_pst_ptsb-418.sav




PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 PITTSBURG 230/115kV #12 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 418
 MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:52:59 2008 wlopssv2-2013mrnt_pre_ptsb-419.sav

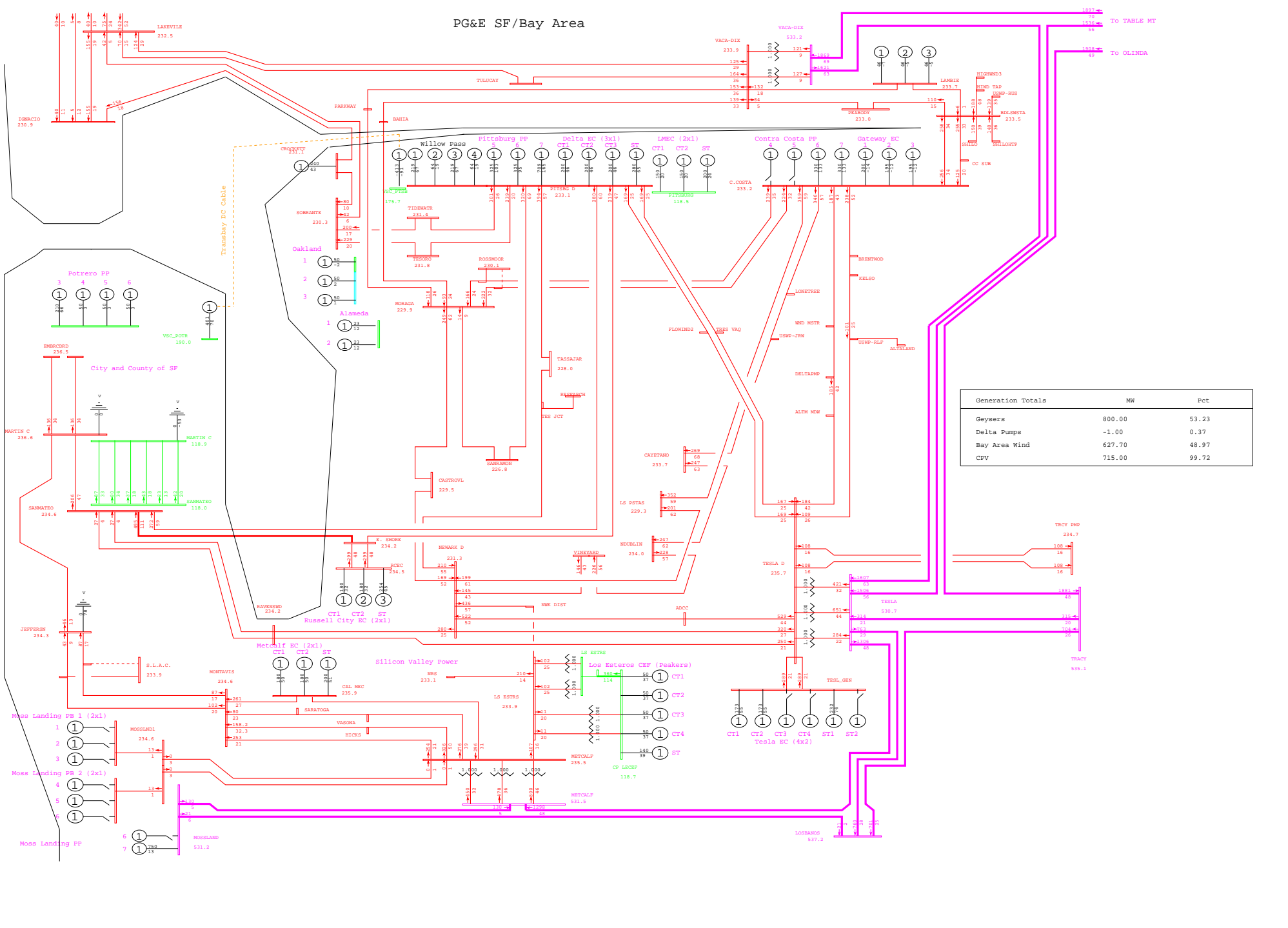


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 PITTSBURG 230/115kV #13 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 419

MW/% rate
 bayarea_2013_PGE_v4.0.rtf
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:48 2008 wlopssv2-2013mrnt_pst_ptsb-419.sav

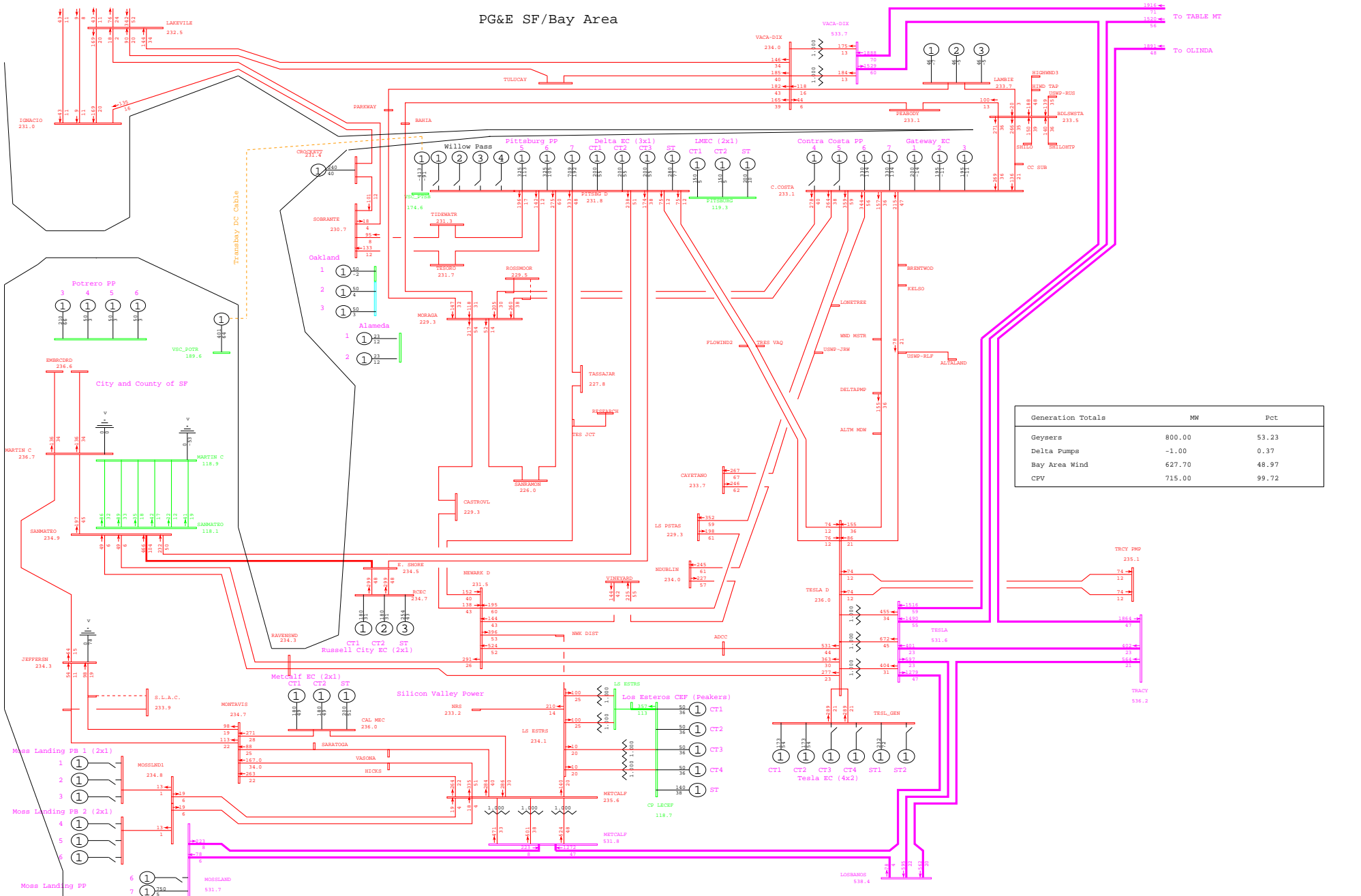


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 PITTSBURG 230/115kV #13 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 419

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:53:00 2008 wlopssv2-2013mrnt_pre_ptsb-420.sav

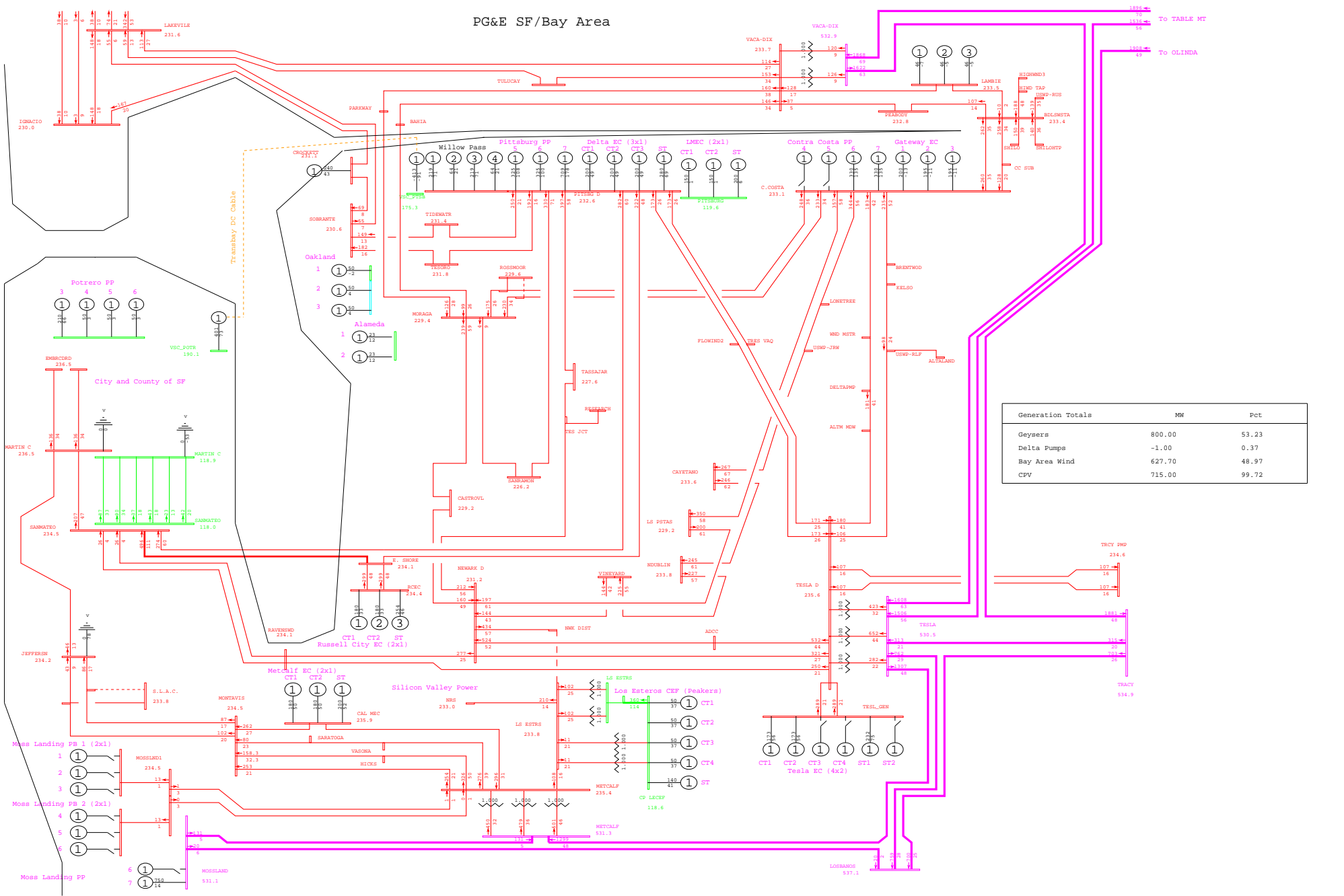


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 SOBRIANTE 230/115kV #1 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 420

MW/% rate
 bayarea_2013_PGE_v4.0rzw
 Rating = 2

PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

General Electric International, Inc. PSLF Program Fri Sep 26 20:49:49 2008 wlopssv2-2013mrnt_pst_ptsb-420.sav

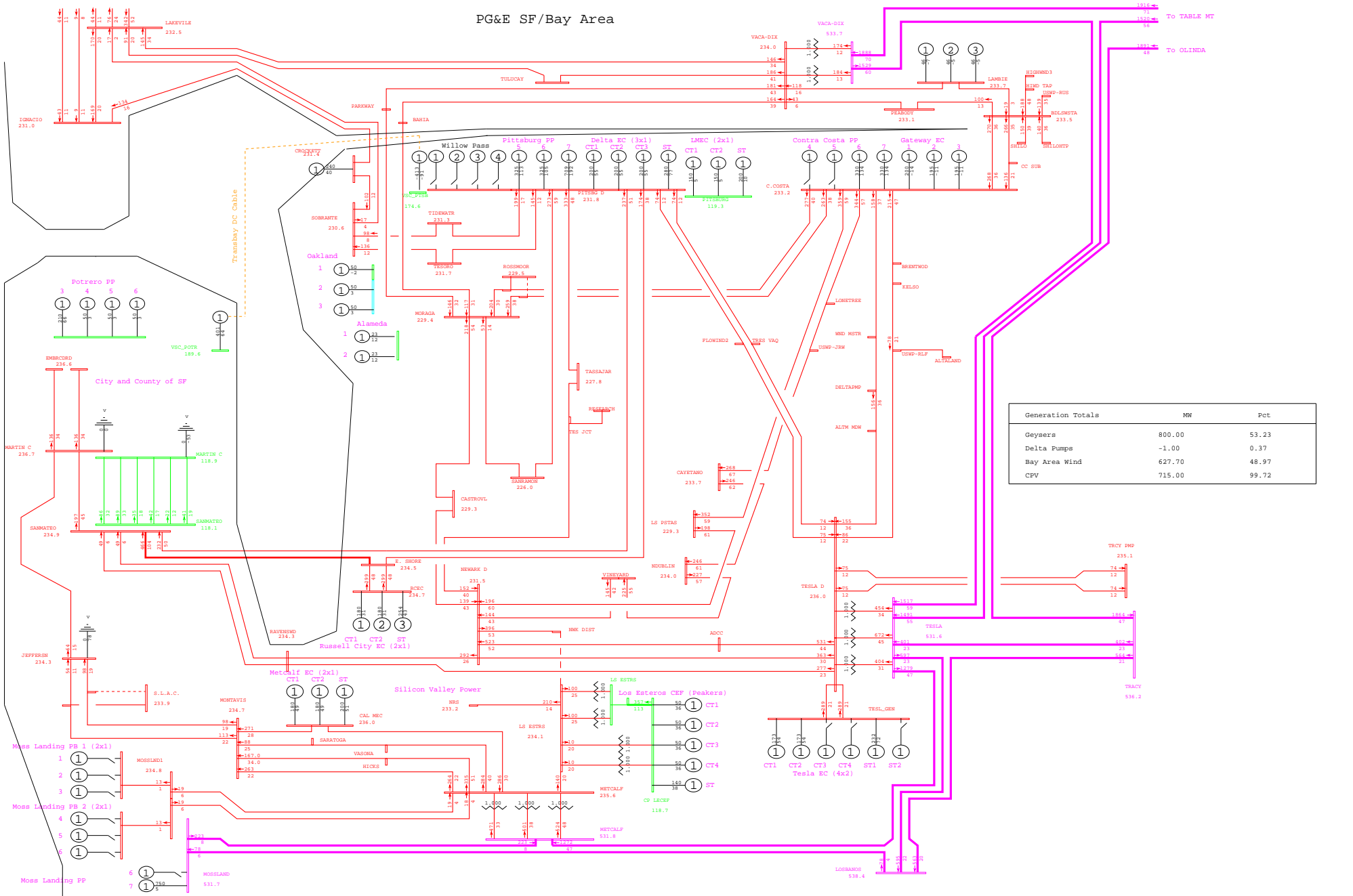


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 SOB RANTE 230/115kV #1 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 420

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:53:01 2008 wlopssv2-2013mrnt_pre_ptsb-421.sav

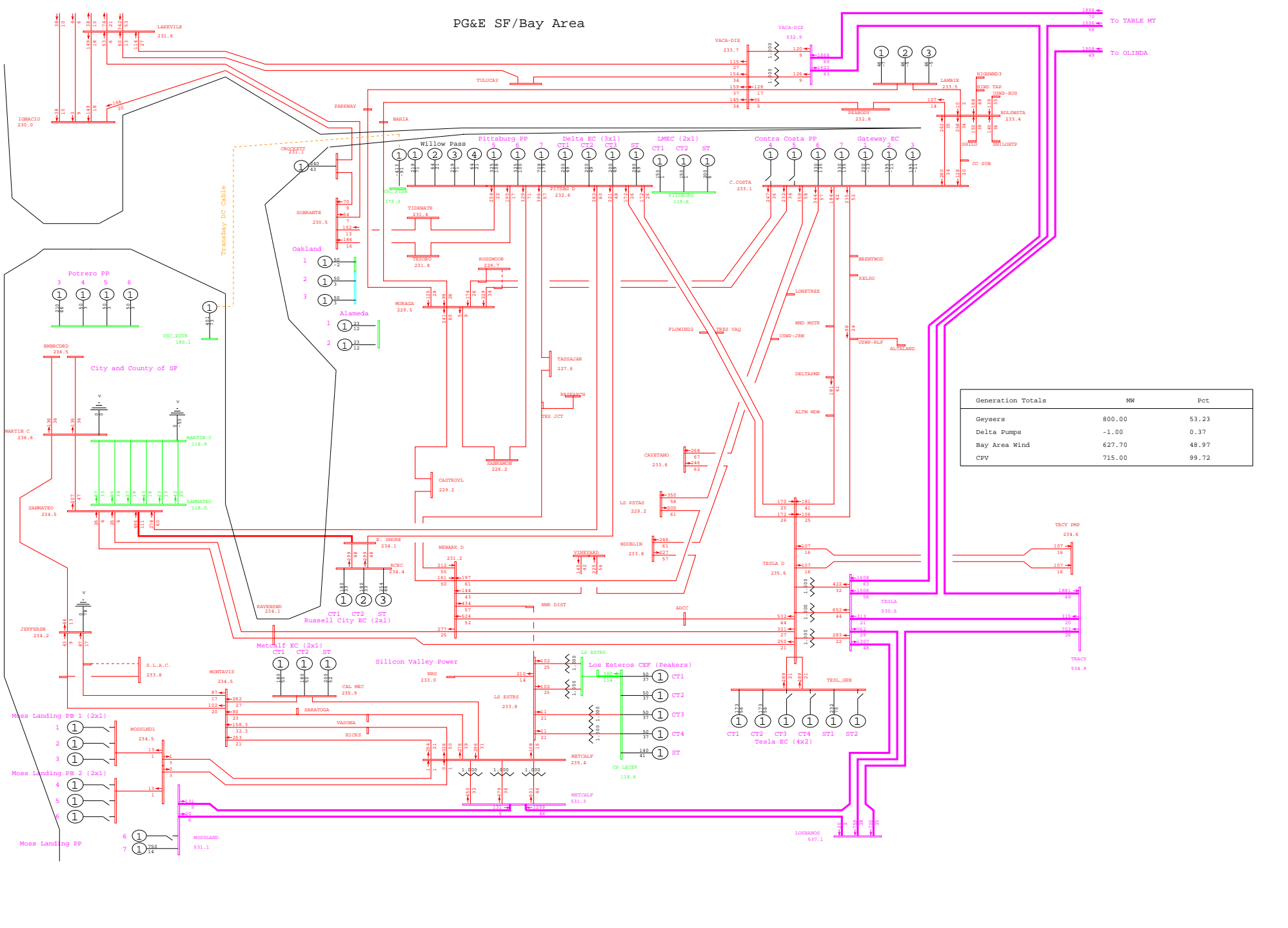


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 SOB RANTE 230/115kV #2 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 421

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



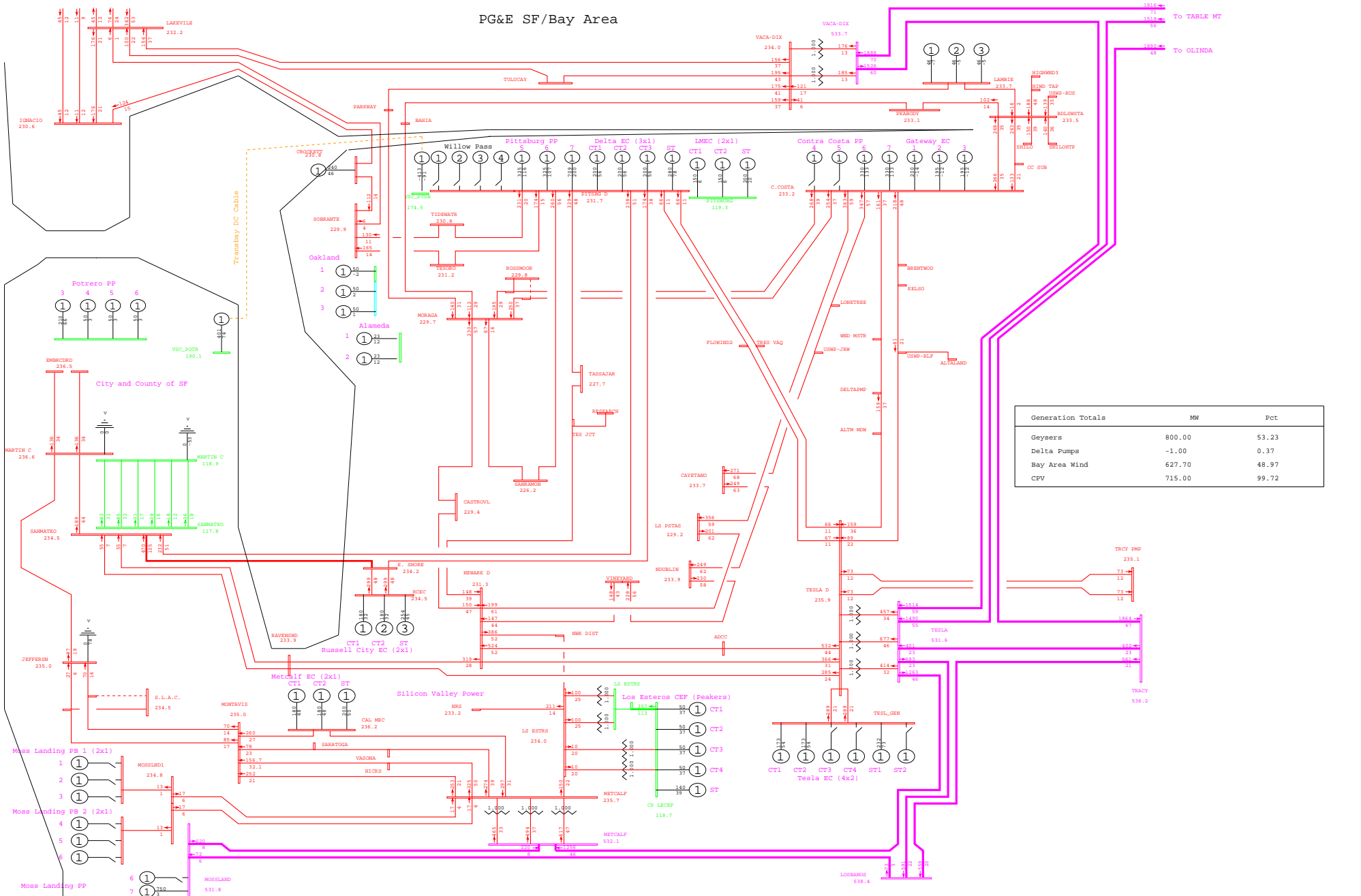
General Electric International, Inc. PSLF Program Fri Sep 26 20:49:50 2008 wlopssv2-2013mrnt_pst_ptsb-421.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 SOBRANTE 230/115kV #2 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 421
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:53:02 2008 wlopssv2-2013mrnt_pre_ptsb-426.sav

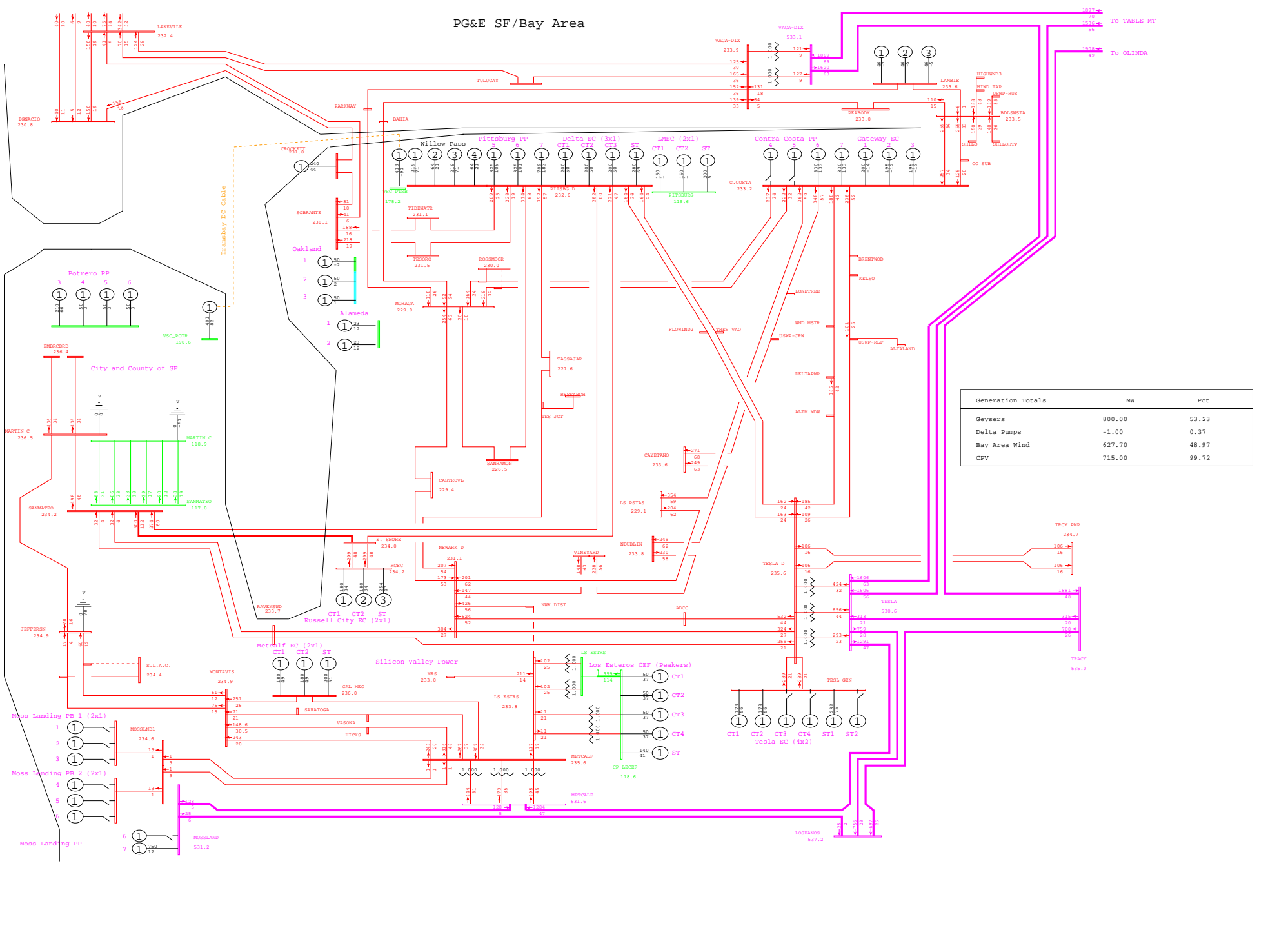


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


T-1 JEFFERSON 230/60kV #1 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 426

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:51 2008 wlopssv2-2013mrnt_pst_ptsb-426.sav

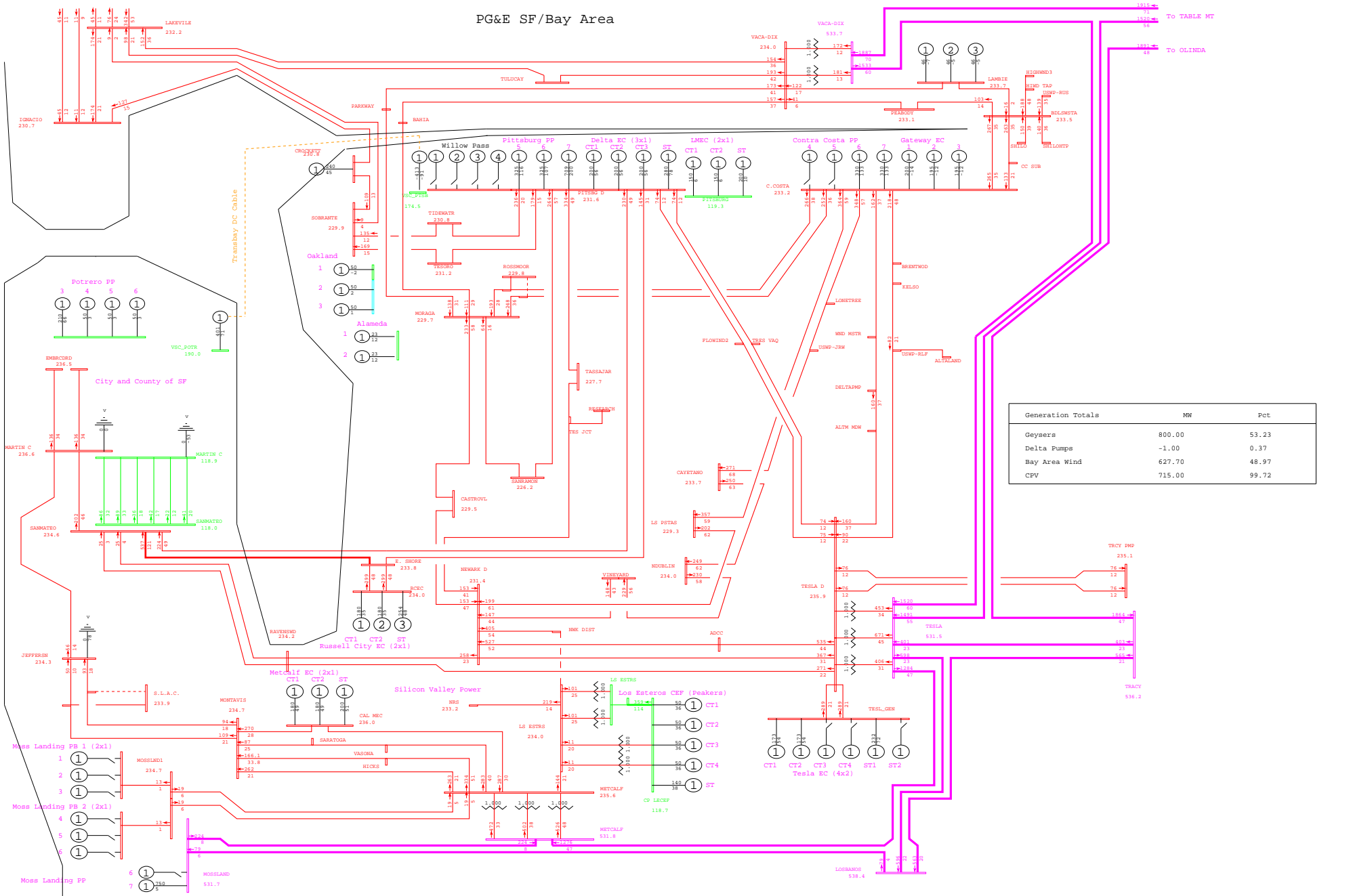


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 JEFFERSON 230/60kV #1 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 426

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



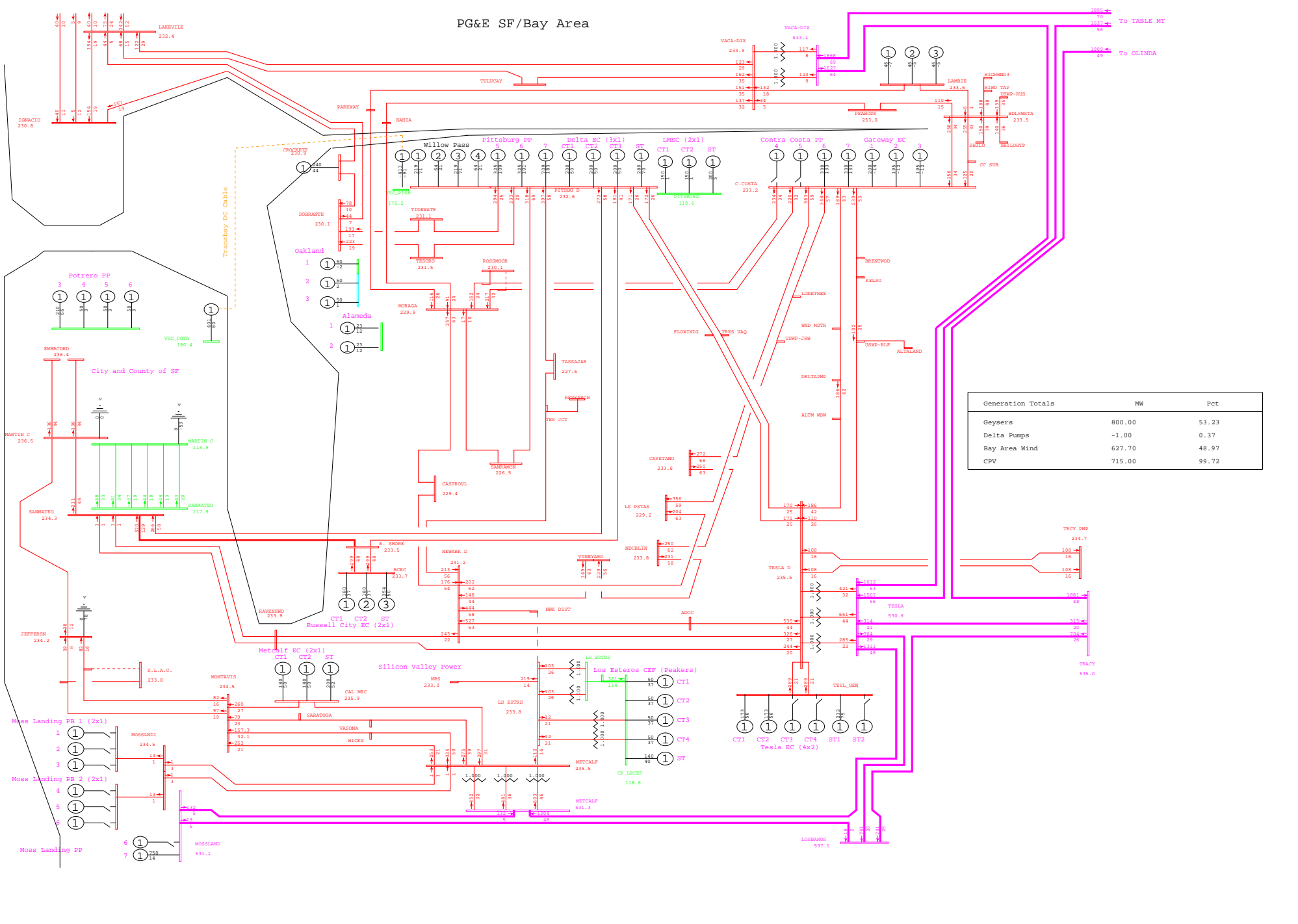
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:03 2008 wlopssv2-2013mrnt_pre_ptsb-434.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 EAST SHORE 230/115kV #1 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 434
 MW/% rate
 bayarea_2013_PGE_v4.0.rtf
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:52 2008 wlopssv2-2013mrnt_pst_ptsb-434.sav

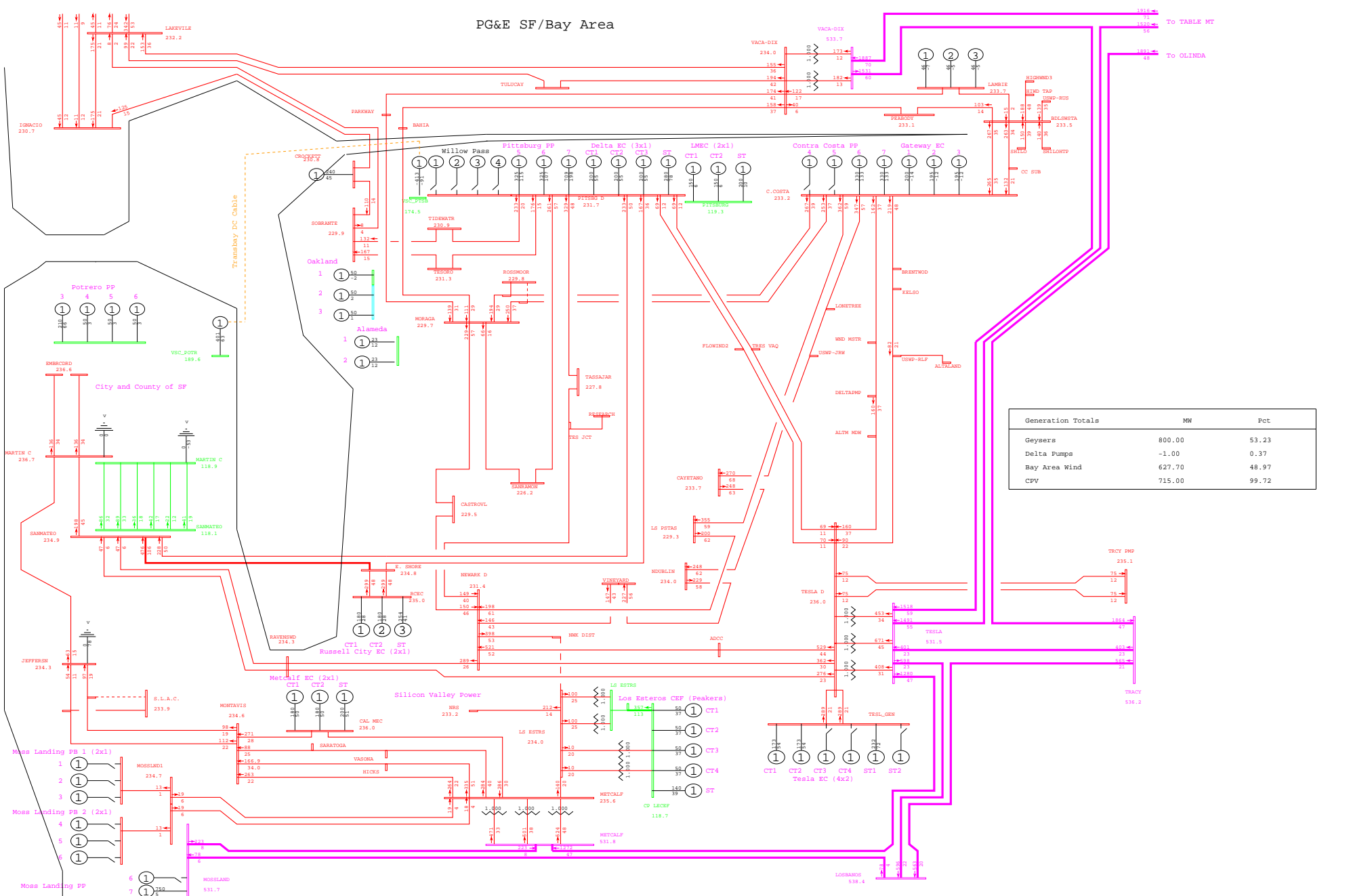


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 EAST SHORE 230/115kV #1 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 434

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



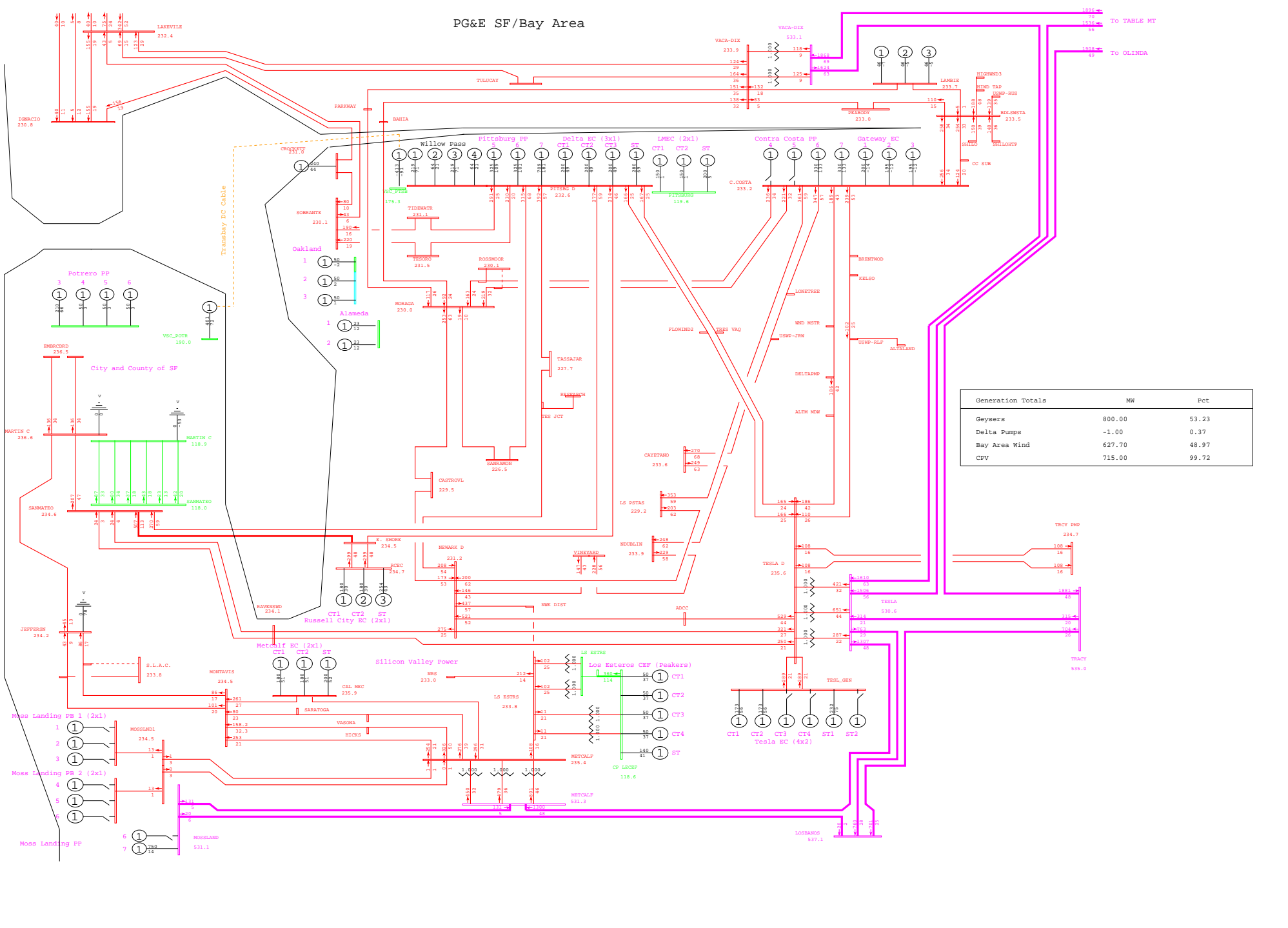
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:04 2008 wlopssv2-2013mrnt_pre_ptsb-435.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 EAST SHORE 230/115kV #2 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 435
 MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:53 2008 wlopssv2-2013mrnt_pst_ptsb-435.sav

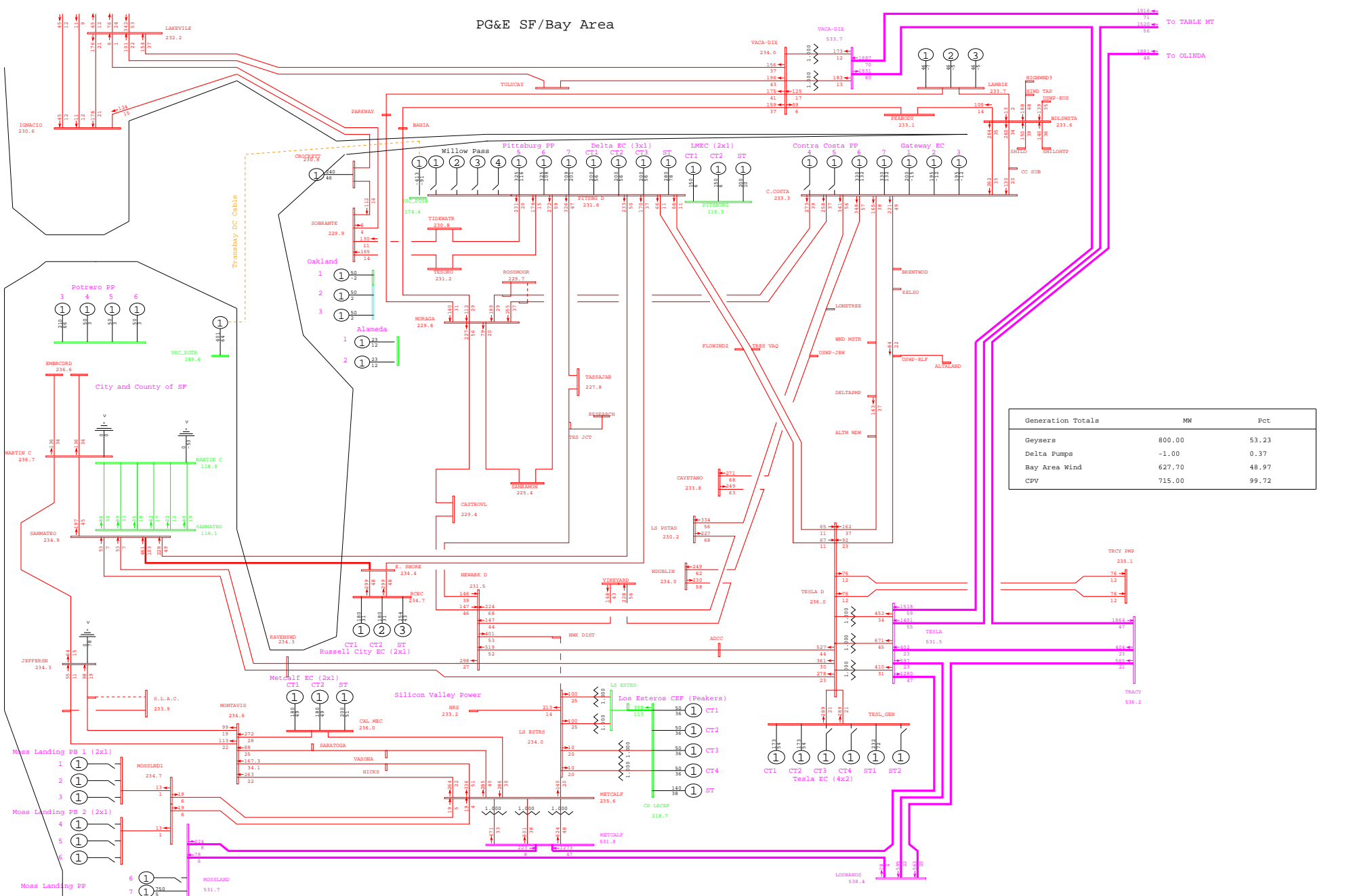


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

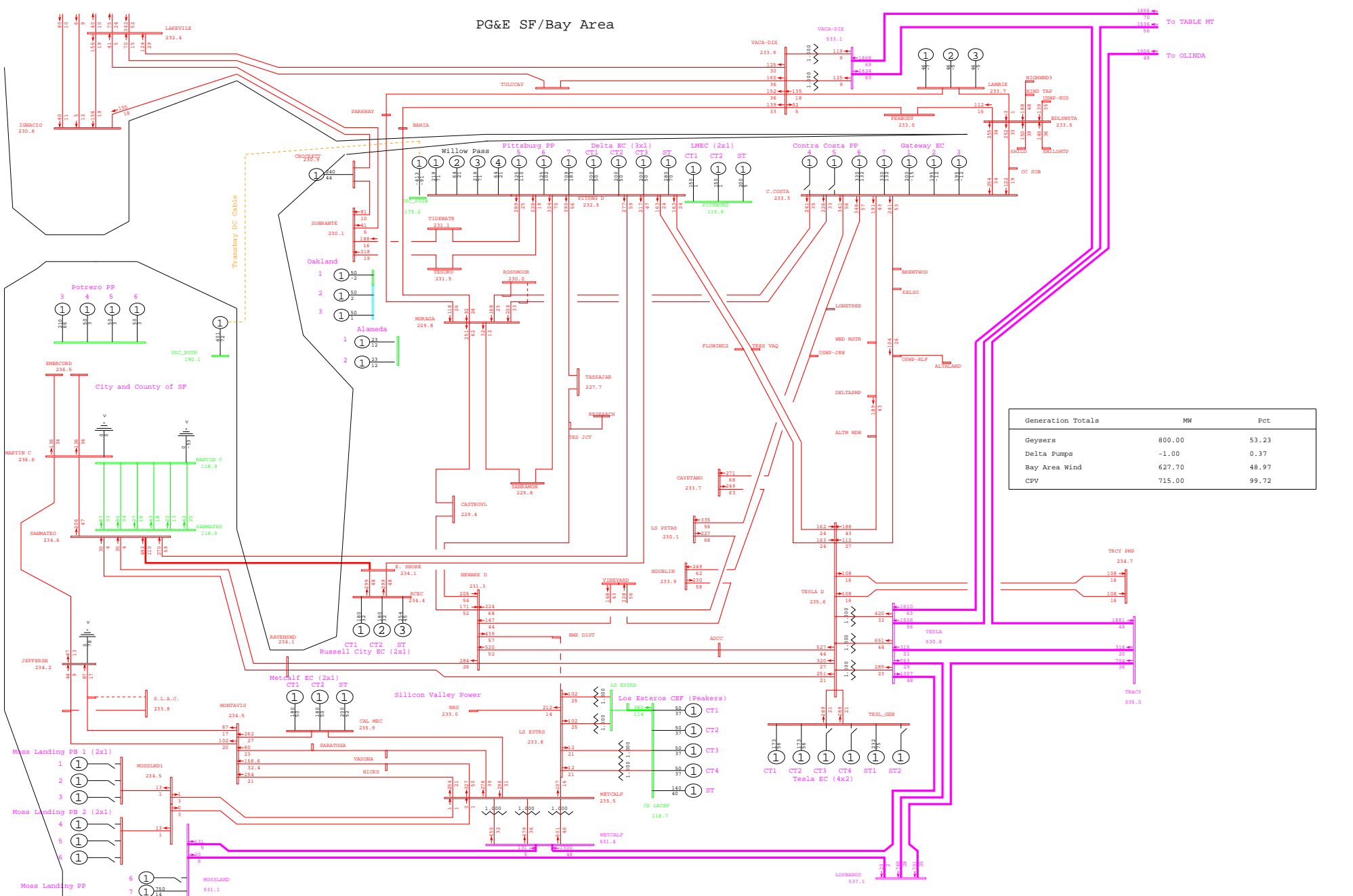
T-1 EAST SHORE 230/115kV #2 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 435

MW/% rate
 bayarea_2013_PGE_v4.0.rtf
 Rating = 2

PG&E SF/Bay Area



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:54 2008 wlopssv2-2013mrnt_pst_ptsb-436.sav

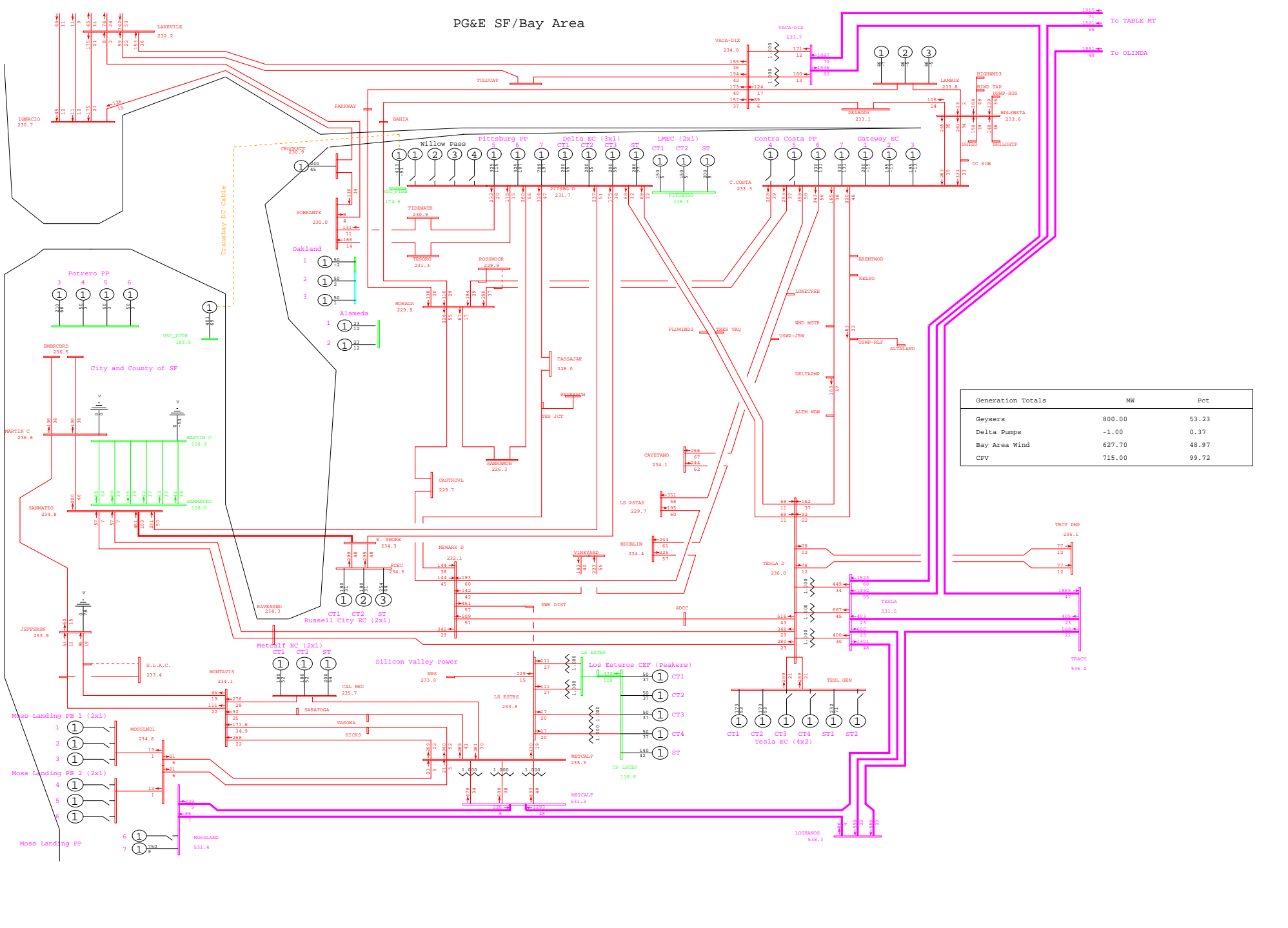


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 LOS POSITAS 230/60kV #4 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 436

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

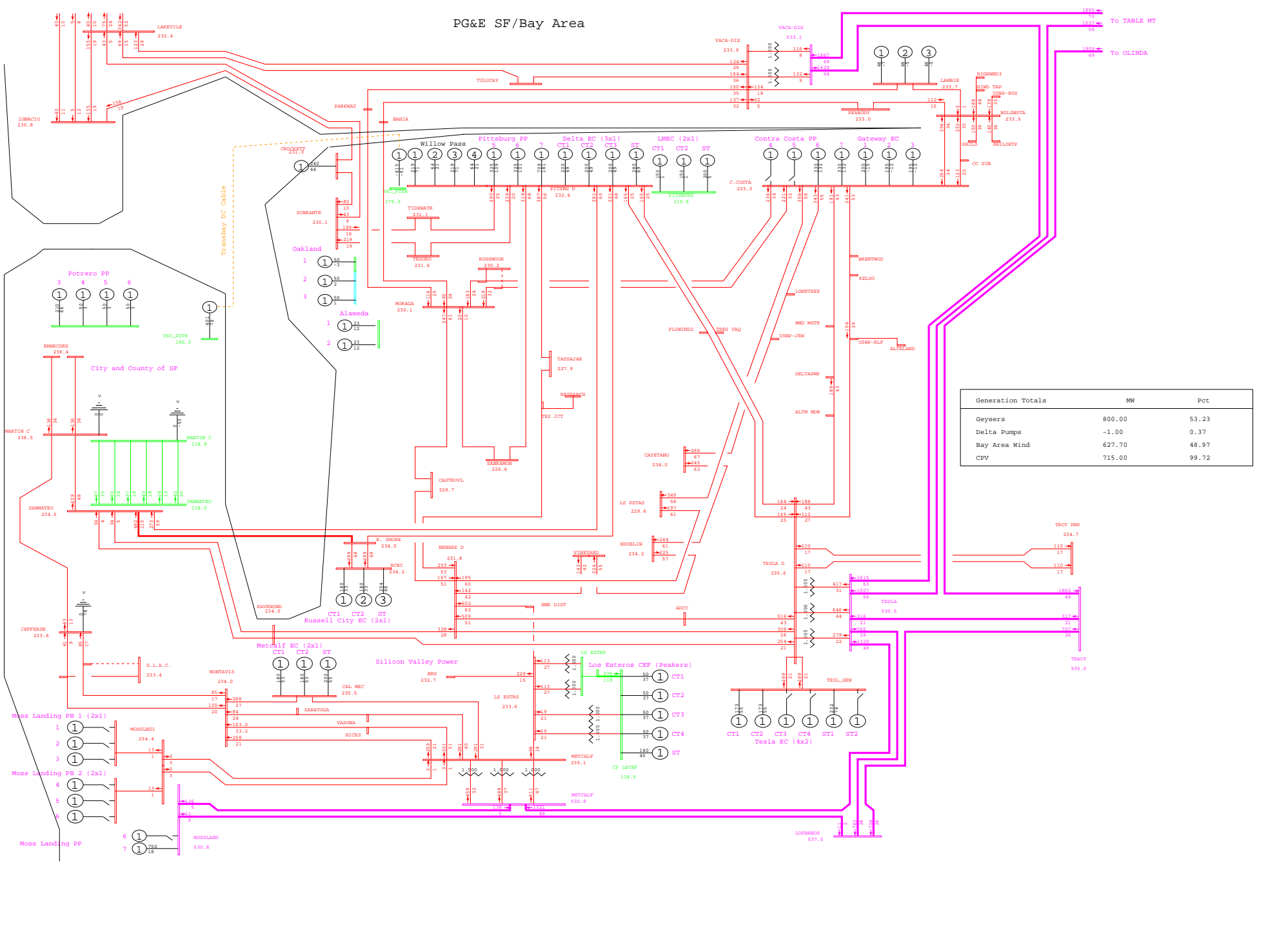
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:07 2008 wlopssv2-2013mrnt_pre_ptsb-438.sav

PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


T-1 NEWARK 230/115kV #7 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 438

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:55 2008 wlopssv2-2013mrnt_pst_ptsb-438.sav

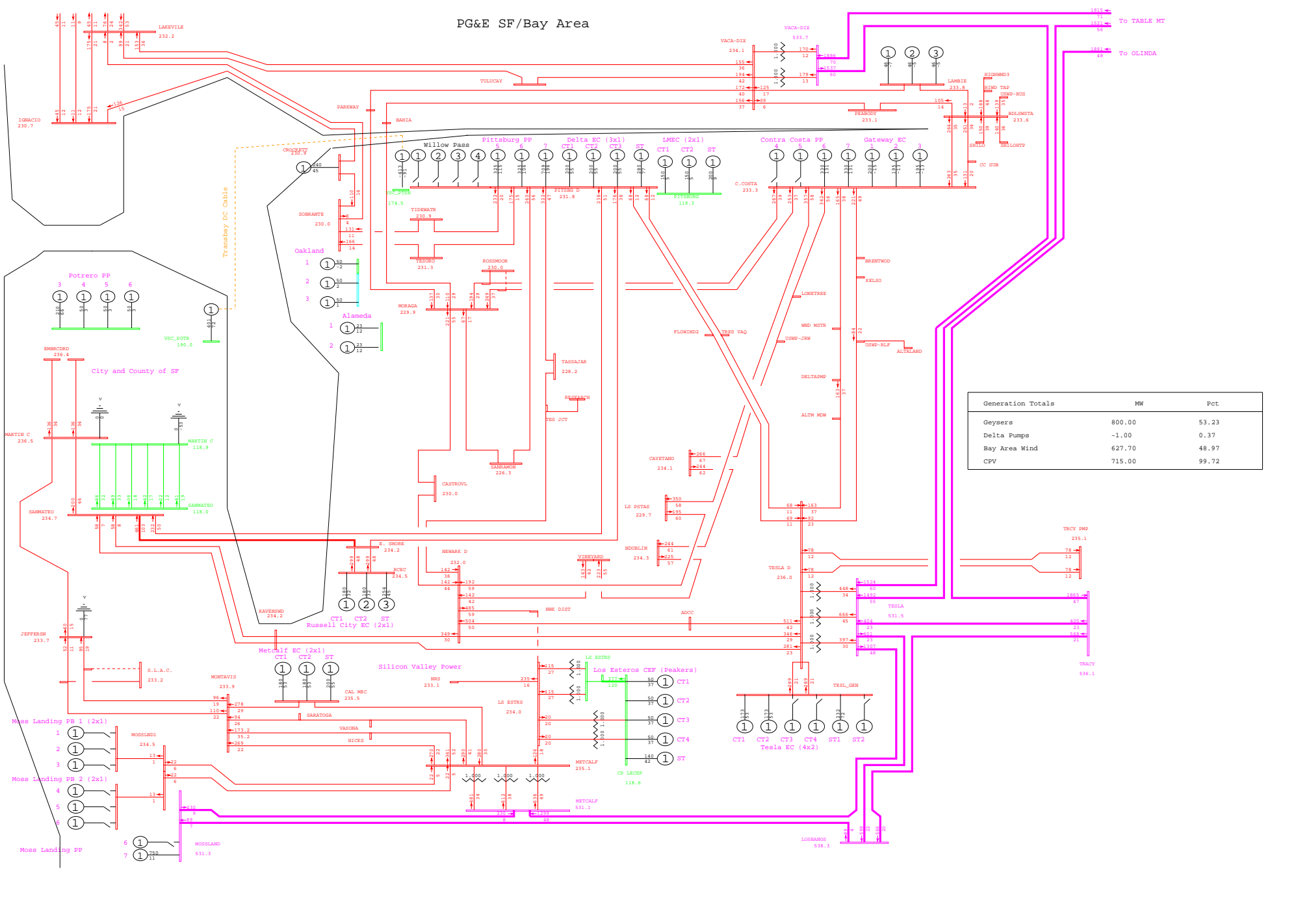


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 NEWARK 230/115kV #7 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 438

MW/% rate
 bayarea_2013_PGE_v4.cdw
 Rating = 2

PG&E SF/Bay Area



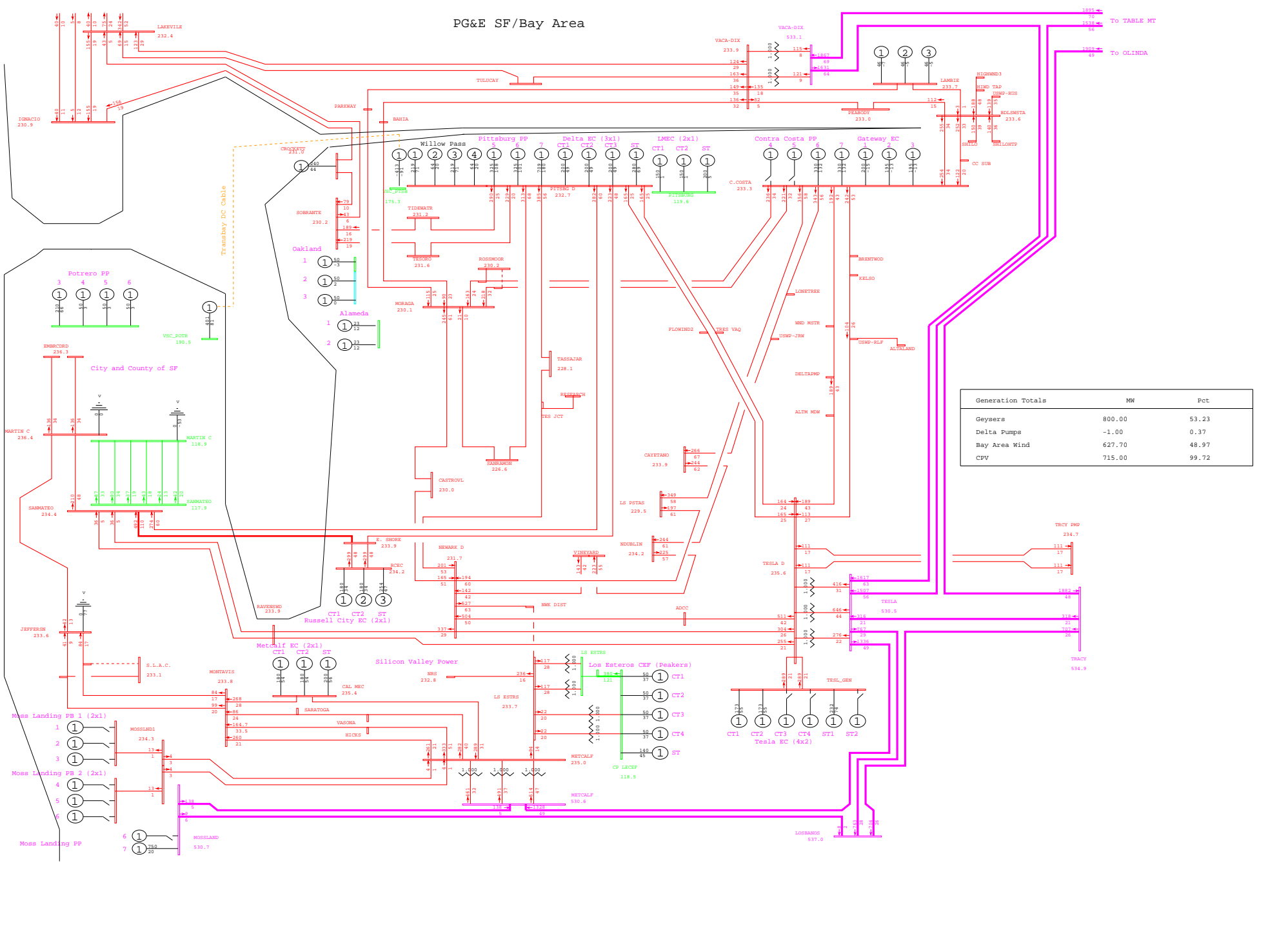
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:08 2008 wlopssv2-2013mrnt_pre_ptsb-439.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 NEWARK 230/115kV #11 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 439
 MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:57 2008 wlopssv2-2013mrnt_pst_ptsb-439.sav

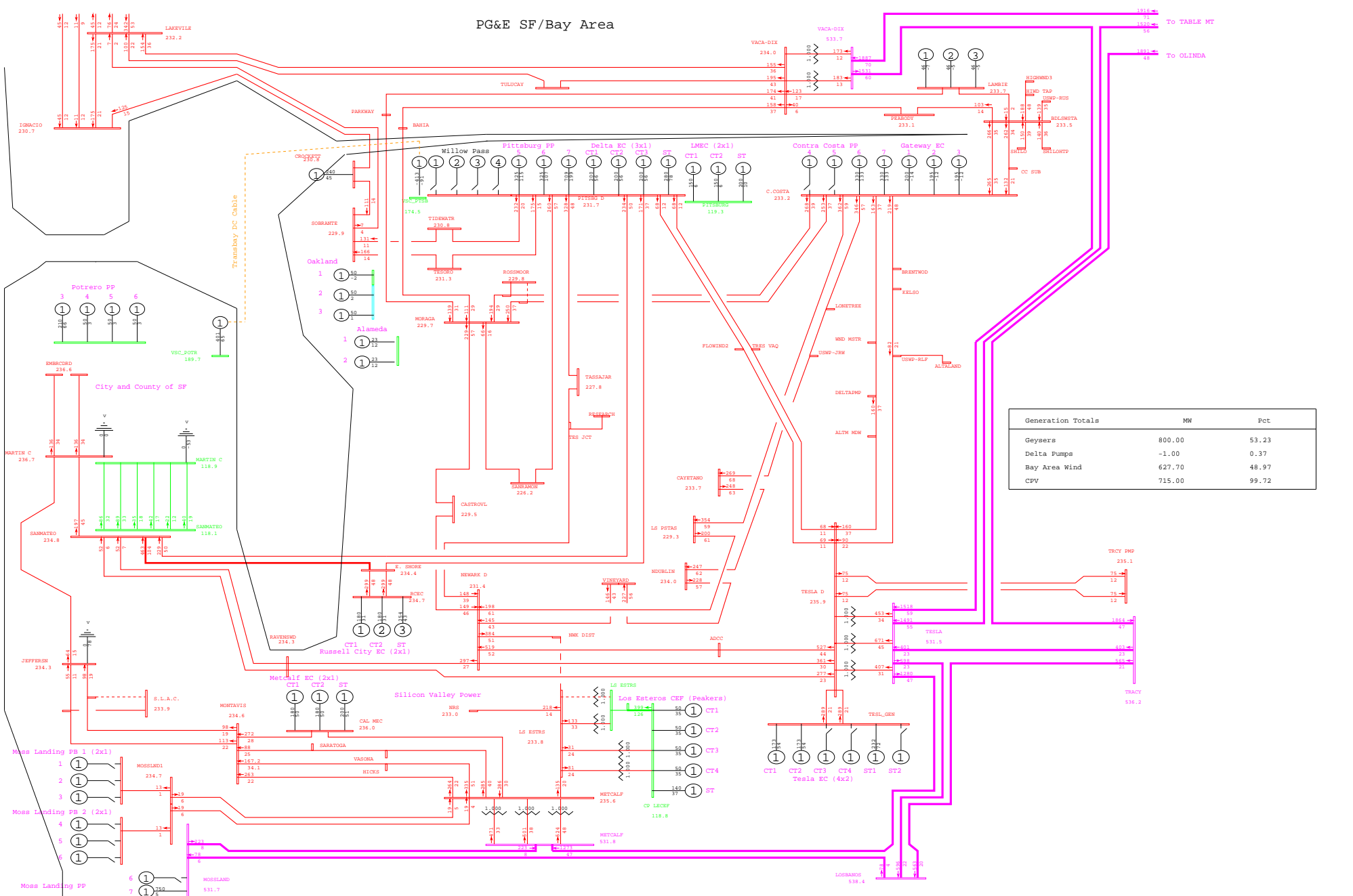


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


T-1 NEWARK 230/115kV #11 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 439

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:53:09 2008 wlopssv2-2013mrnt_pre_ptsb-447.sav

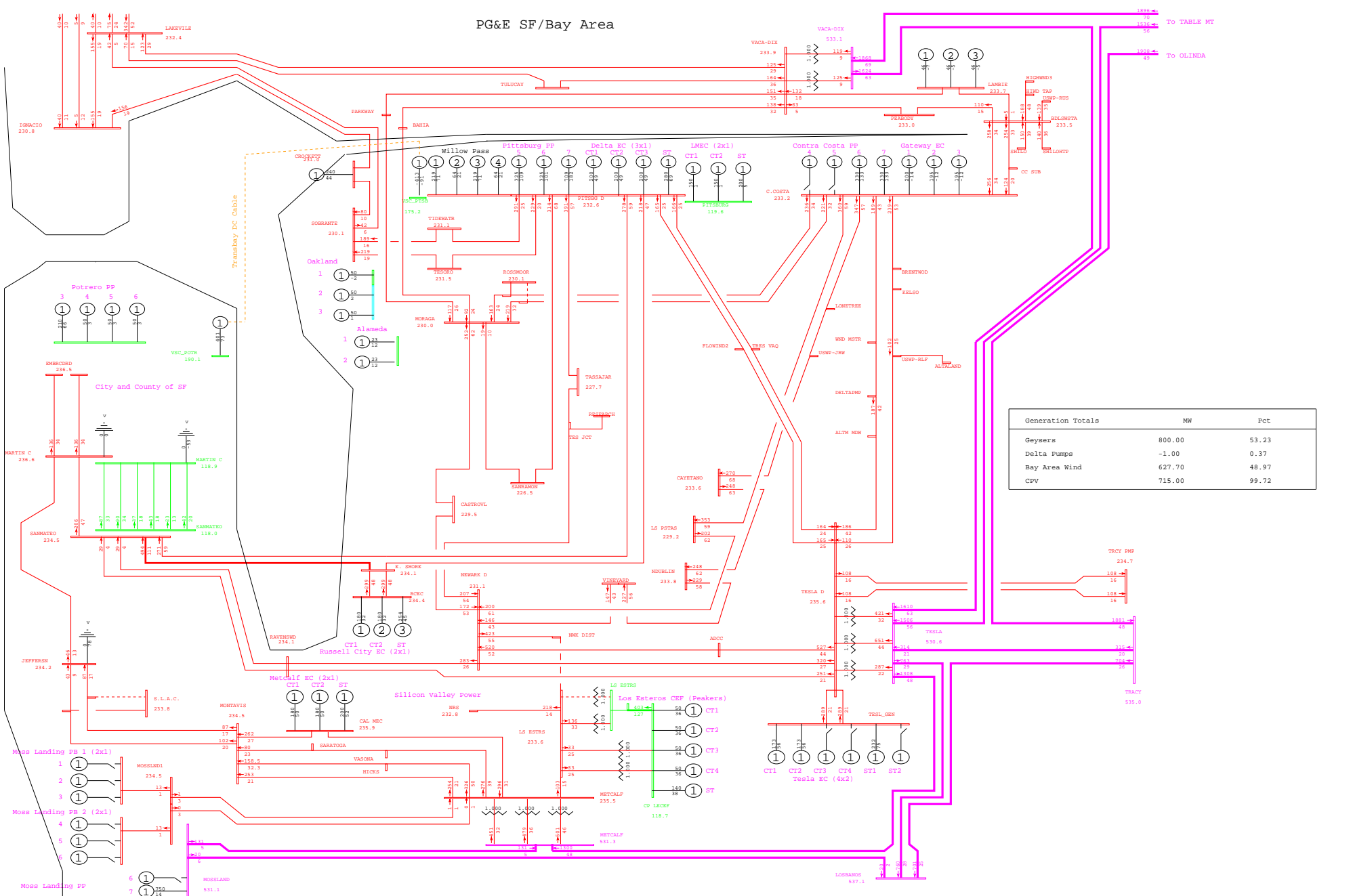


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 LOS ESTEROS 230/115kV #3 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 447

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:58 2008 wlopssv2-2013mrnt_pst_ptsb-447.sav

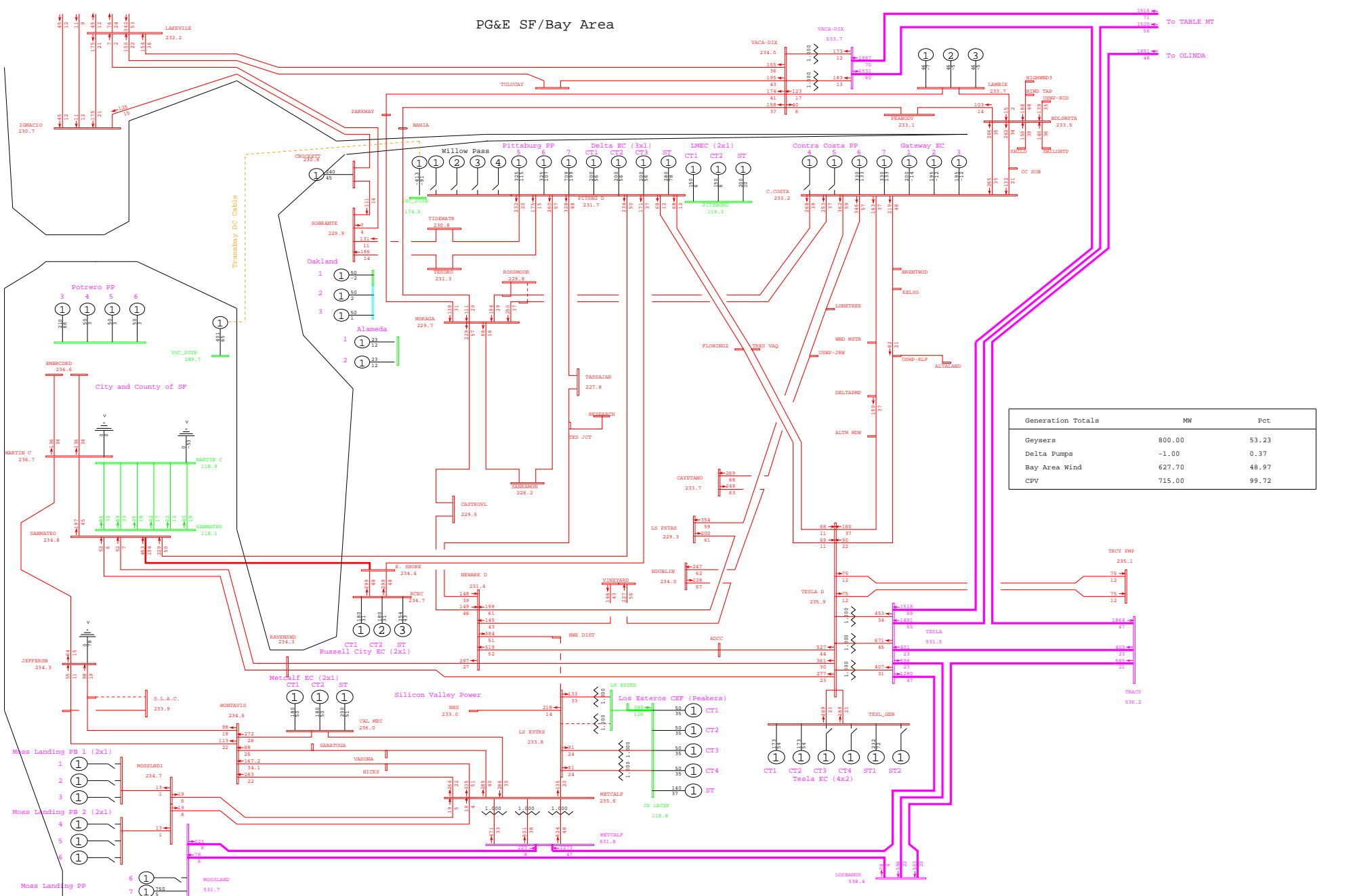


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 LOS ESTEROS 230/115kV #3 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 447

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:53:10 2008 wlopssv2-2013mrnt_pre_ptsb-448.sav

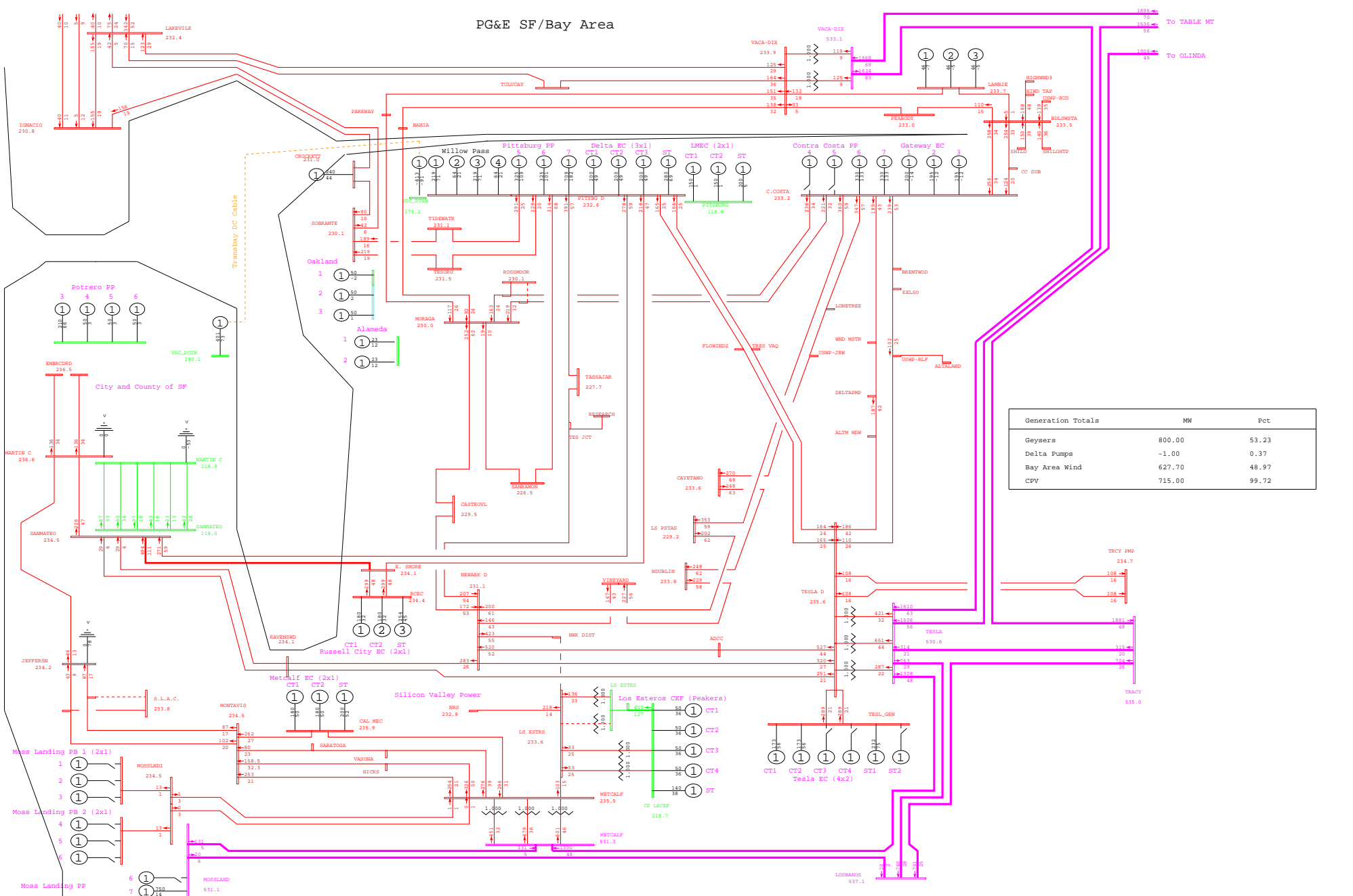


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 LOS ESTEROS 230/115kV #4 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 448

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:49:59 2008 wlopssv2-2013mrnt_pst_ptsb-448.sav

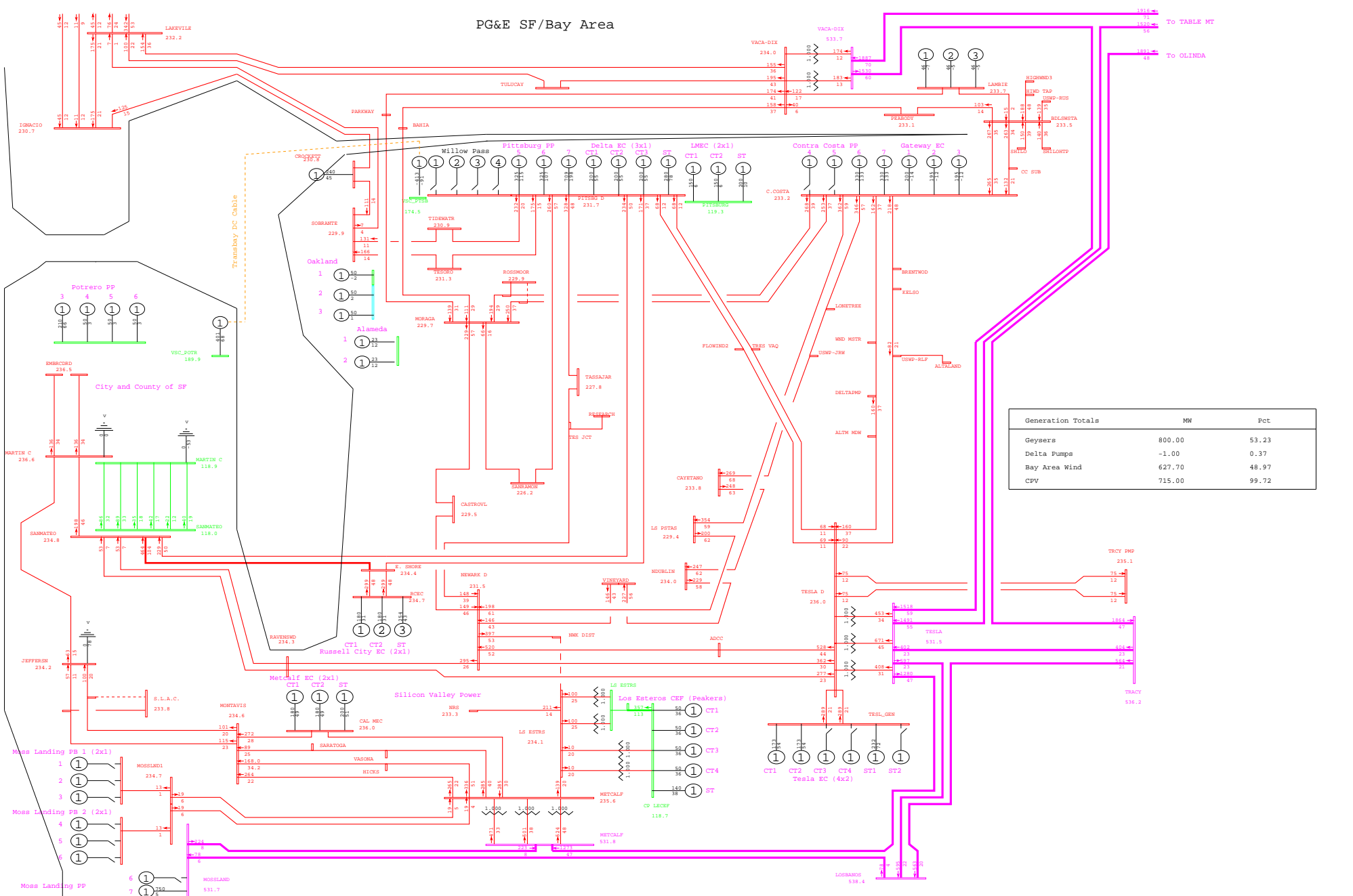


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


T-1 LOS ESTEROS 230/115kV #4 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 448

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:53:11 2008 wlopssv2-2013mrnt_pre_ptsb-458.sav

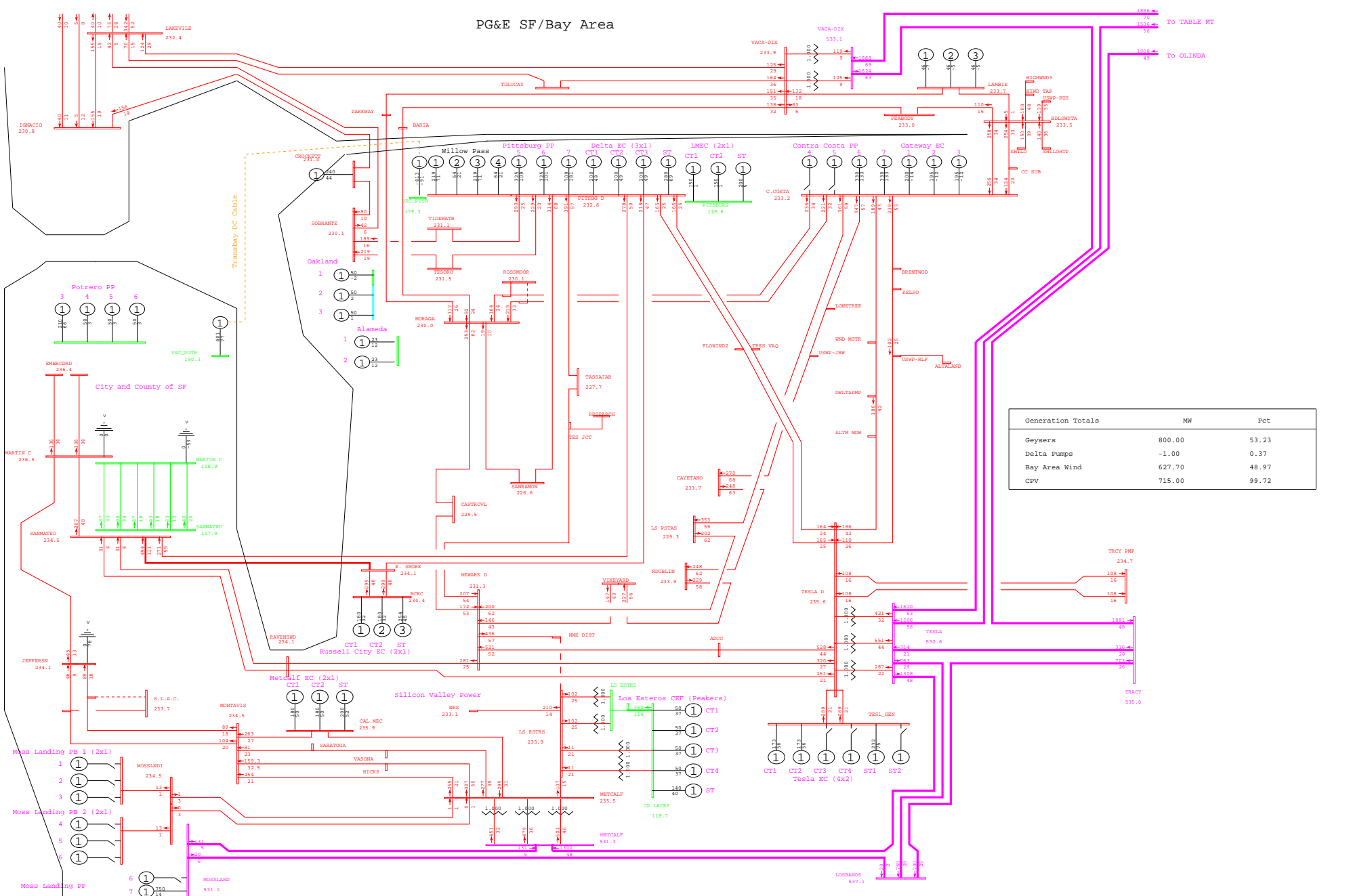


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 BAIR 115/60kV #1 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 458

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:50:00 2008 wlopssv2-2013mrnt_pst_ptsb-458.sav

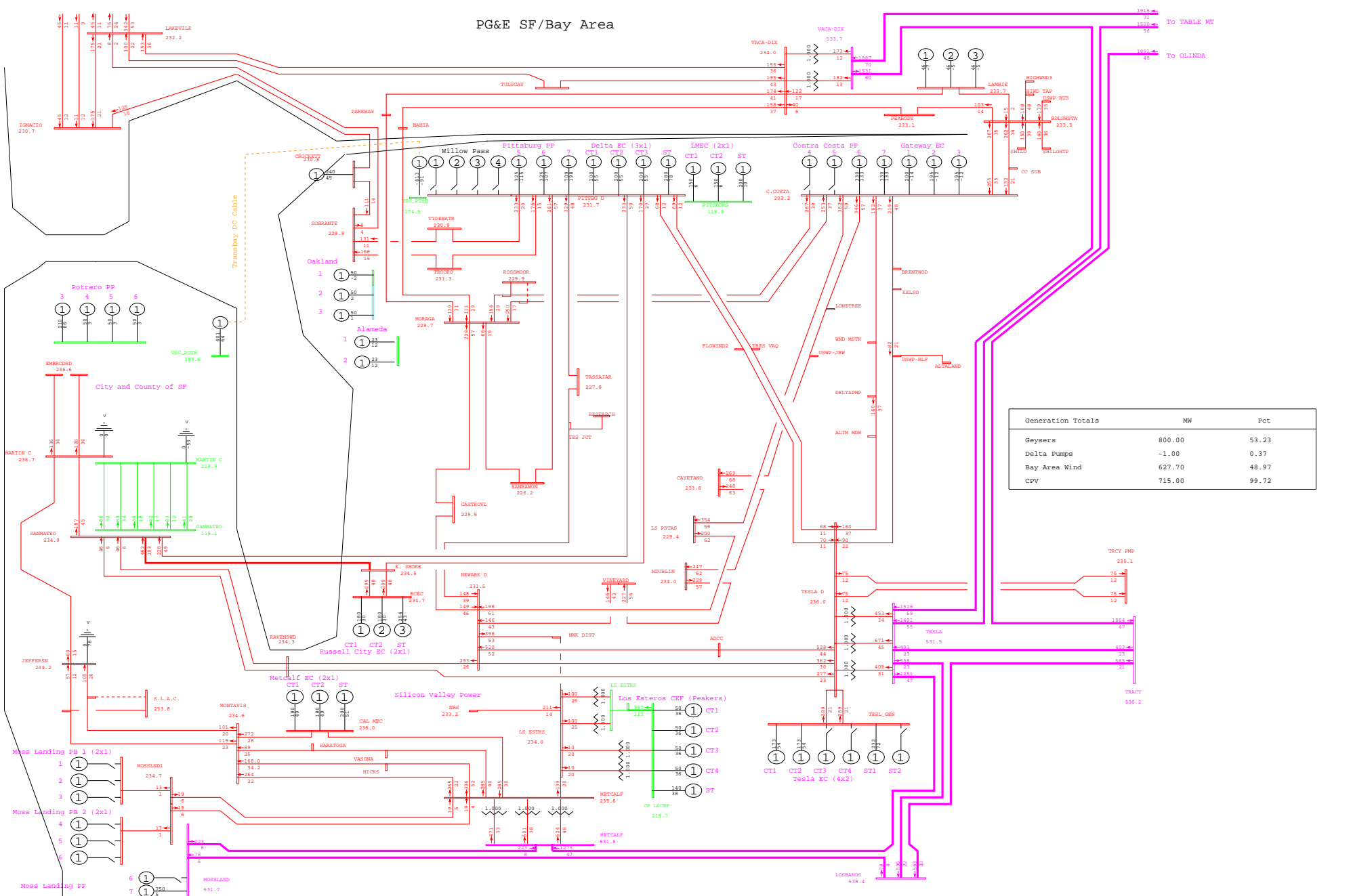


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 BAIR 115/60kV #1 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 458

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:53:12 2008 wlopssv2-2013mrnt_pre_ptsb-461.sav

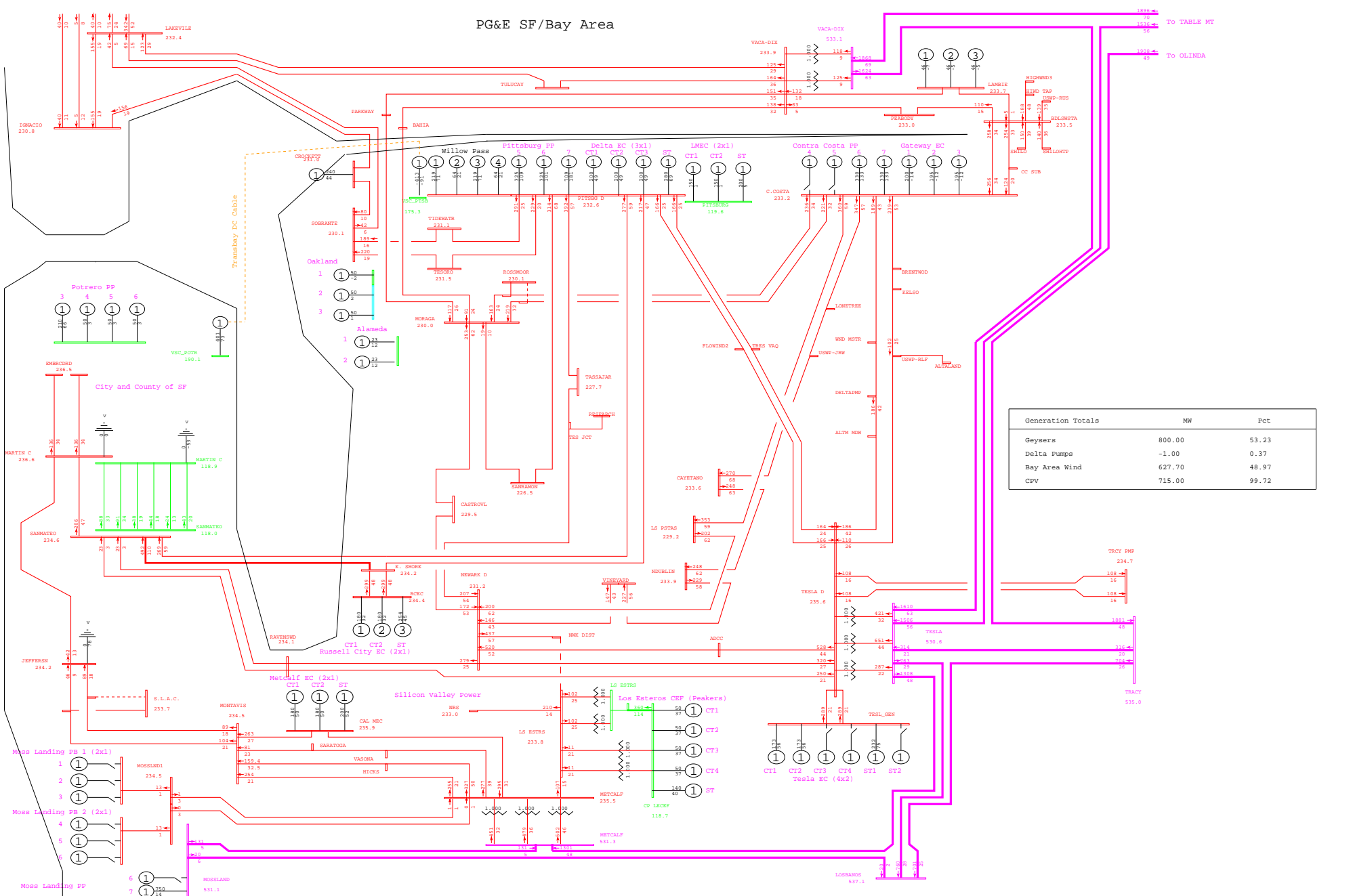


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 SAN MATEO 115/60kV #8 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 461

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



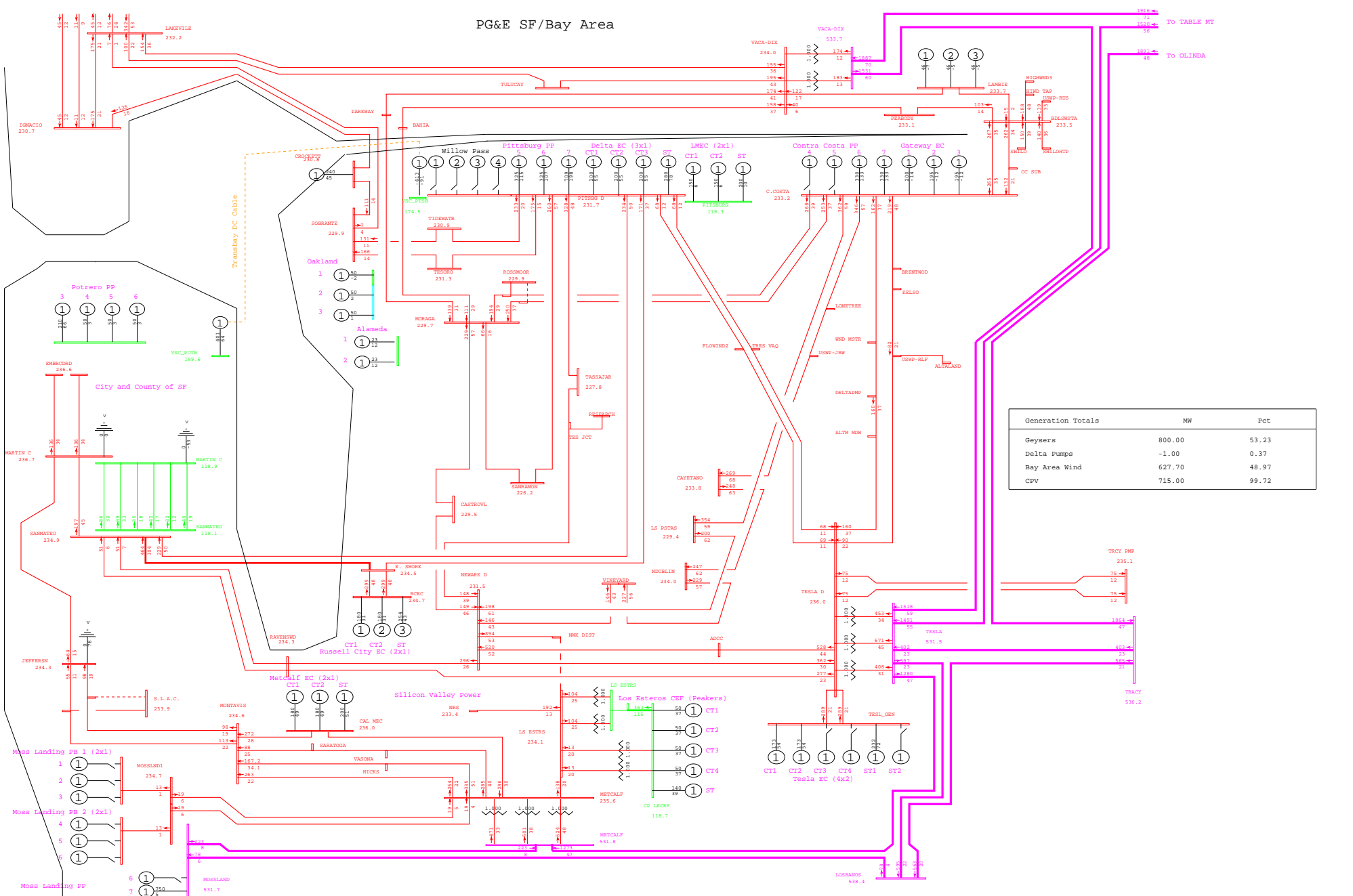
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:01 2008 wlopssv2-2013mrnt_pst_ptsb-461.sav




PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 SAN MATEO 115/60kV #8 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 461
 MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:53:13 2008 wlopssv2-2013mrnt_pre_ptsb-467.sav

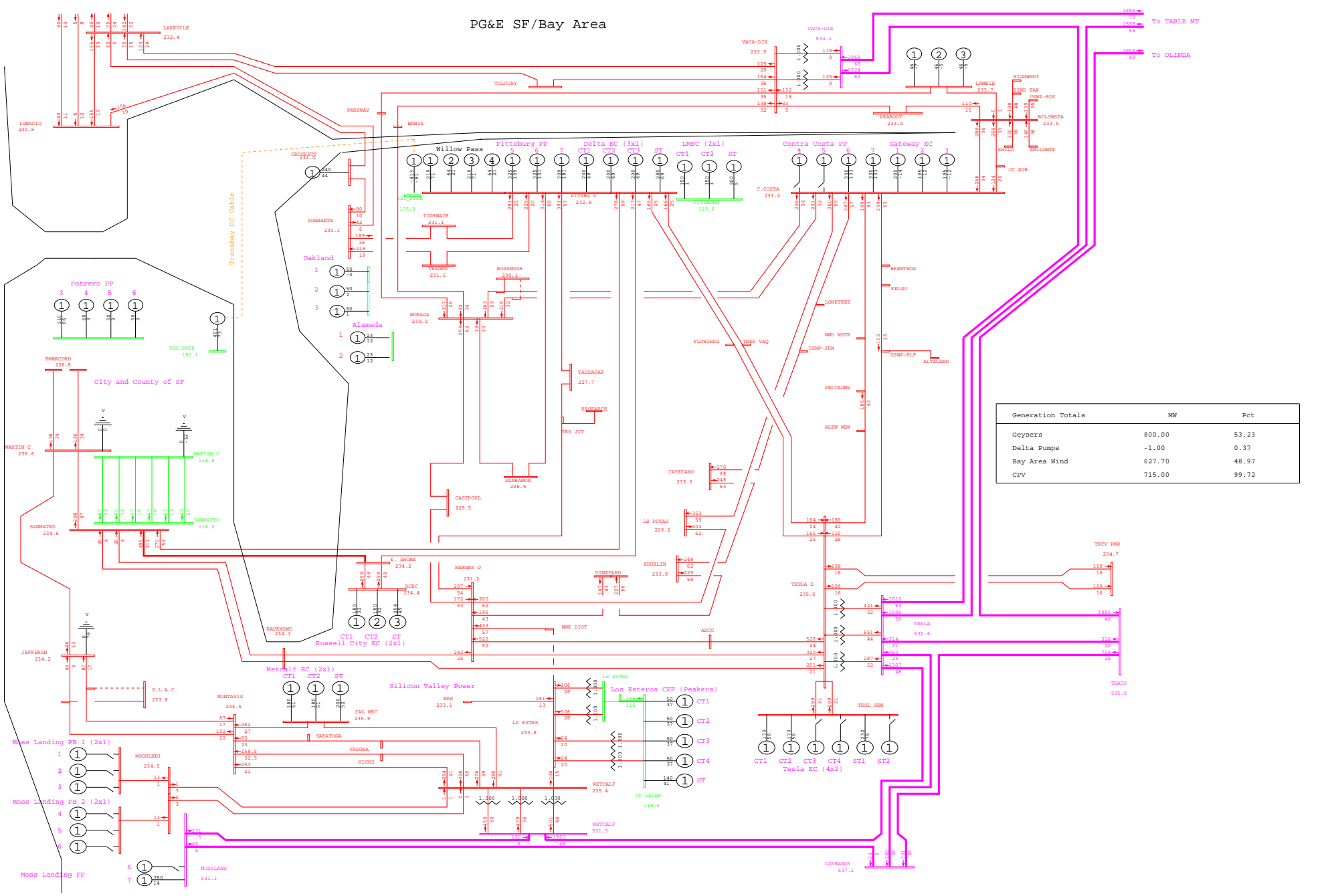


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 CSC NORTHERN 115/60kV #1 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 467

MW/% rate
 bayarea_2013_PGE_v4.0.rtf
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:50:02 2008 wlopssv2-2013mrnt_pst_ptsb-467.sav

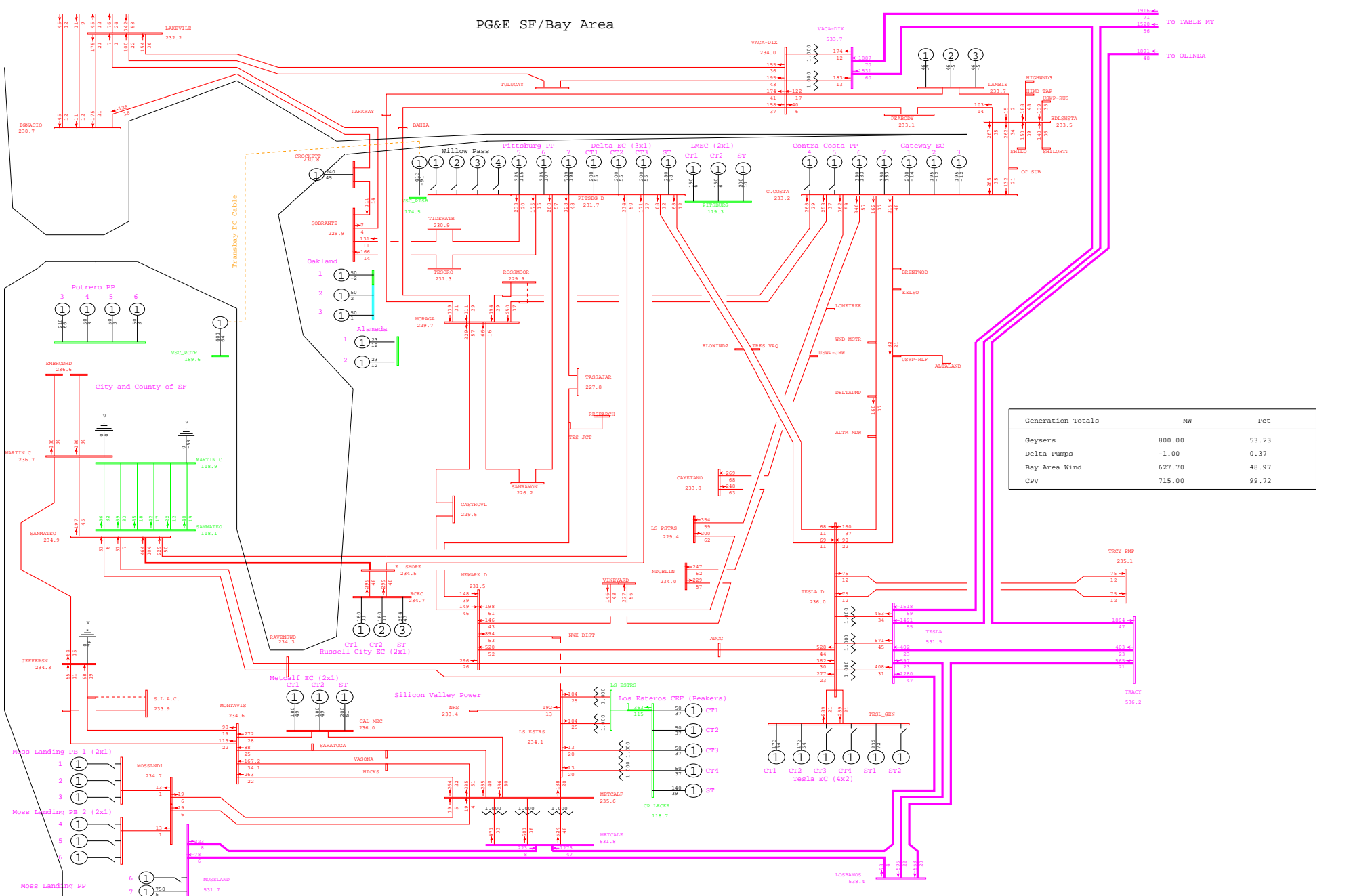


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 CSC NORTHERN 115/60kV #1 XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 467

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

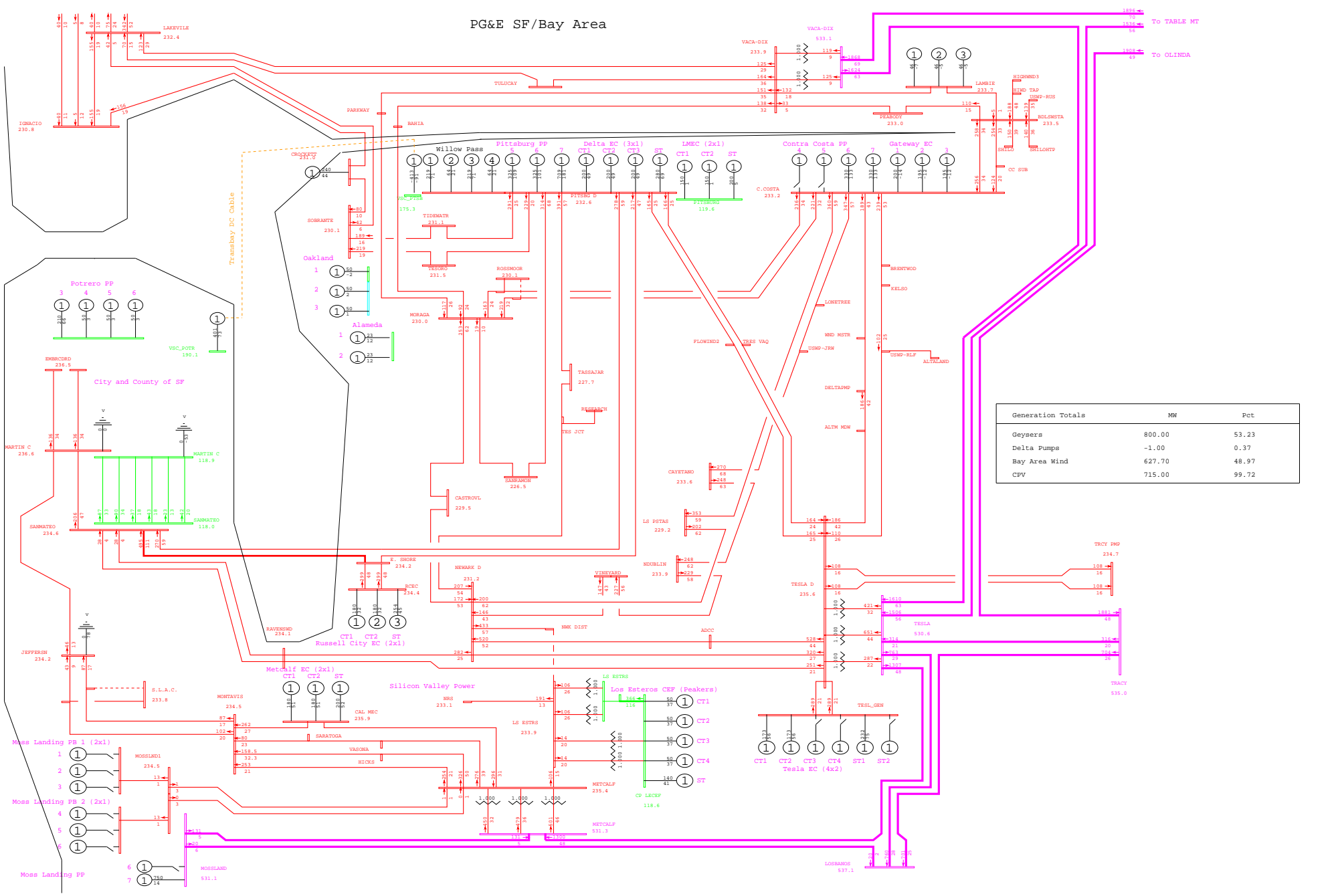
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:14 2008 wlopssv2-2013mrnt_pre_ptsb-468.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 CSC NORTHERN 115/60kV #NA XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 468
 MW/% rate
 bayarea_2013_PGE_v4.cfw
 Rating = 2

PG&E SF/Bay Area



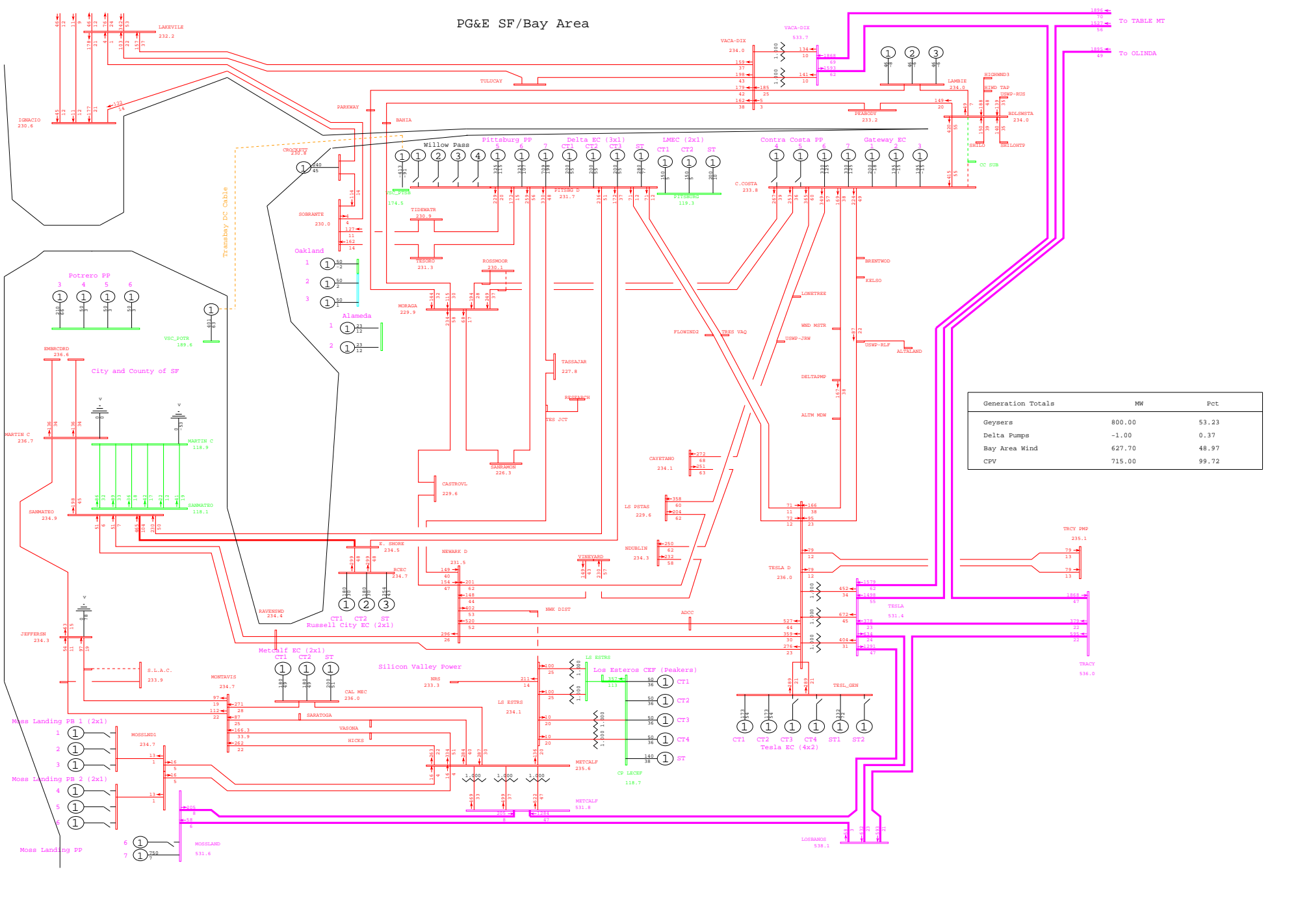
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:03 2008 wlopssv2-2013mrnt_pst_ptsb-468.sav




PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

T-1 CSC NORTHERN 115/60kV #NA XFMR BANK
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 468
 MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:53:15 2008 wlopssv2-2013mrnt_pre_ptsb-480.sav

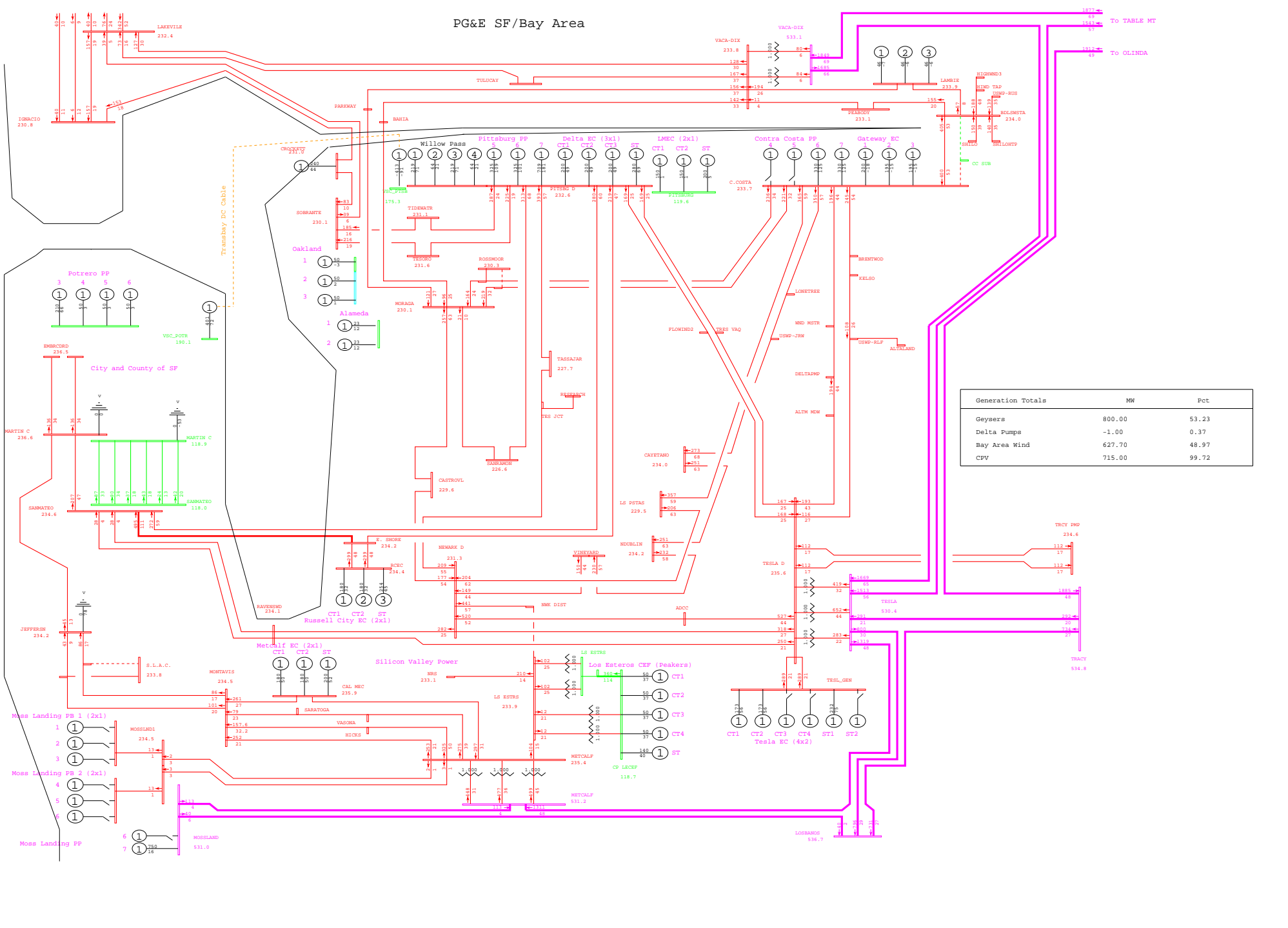


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 CONTRA COSTA SUB - COCO&BIRDS LANDING - CONTRA COSTA SUB 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 480

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



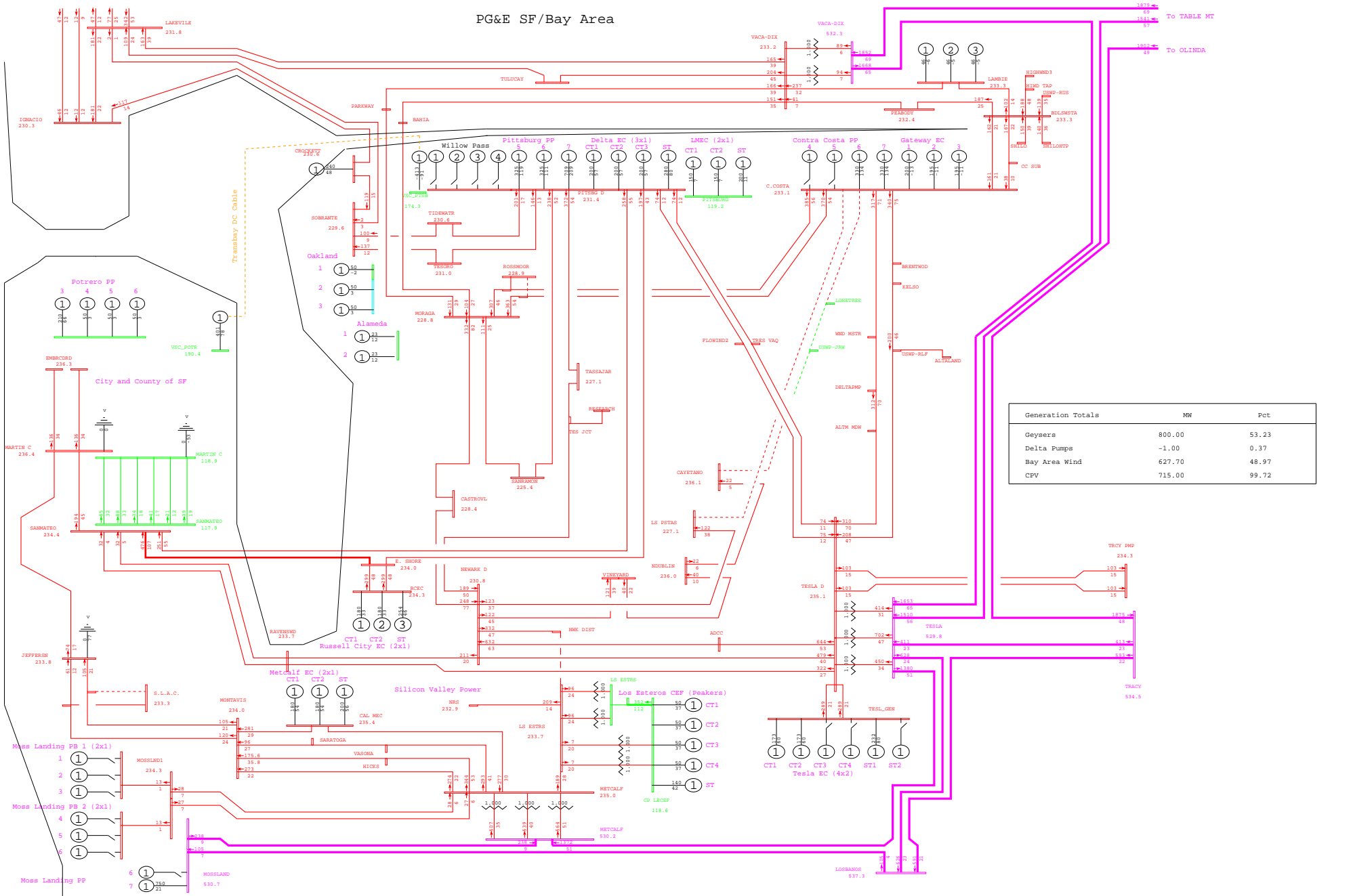
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:04 2008 wlopssv2-2013mrnt_pst_ptsb-480.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 CONTRA COSTA SUB - COCO&BIRDS LANDING - CONTRA COSTA SUB 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 480

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



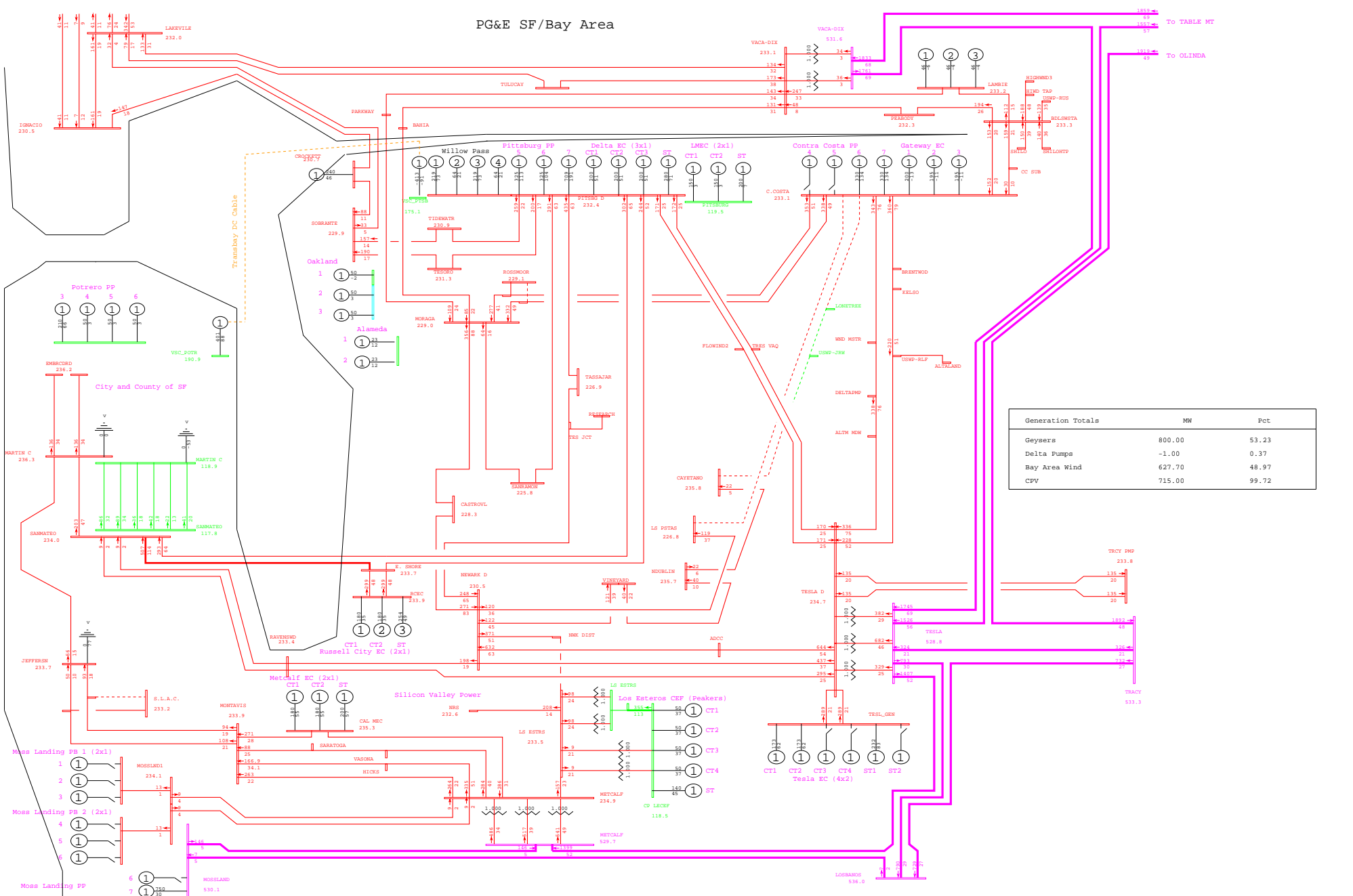
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:16 2008 wlopssv2-2013mrnt_pre_ptsb-482.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 CONTRA COSTA - LOS PSTAS & CONTRA COSTA - CAYETANO 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 482

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



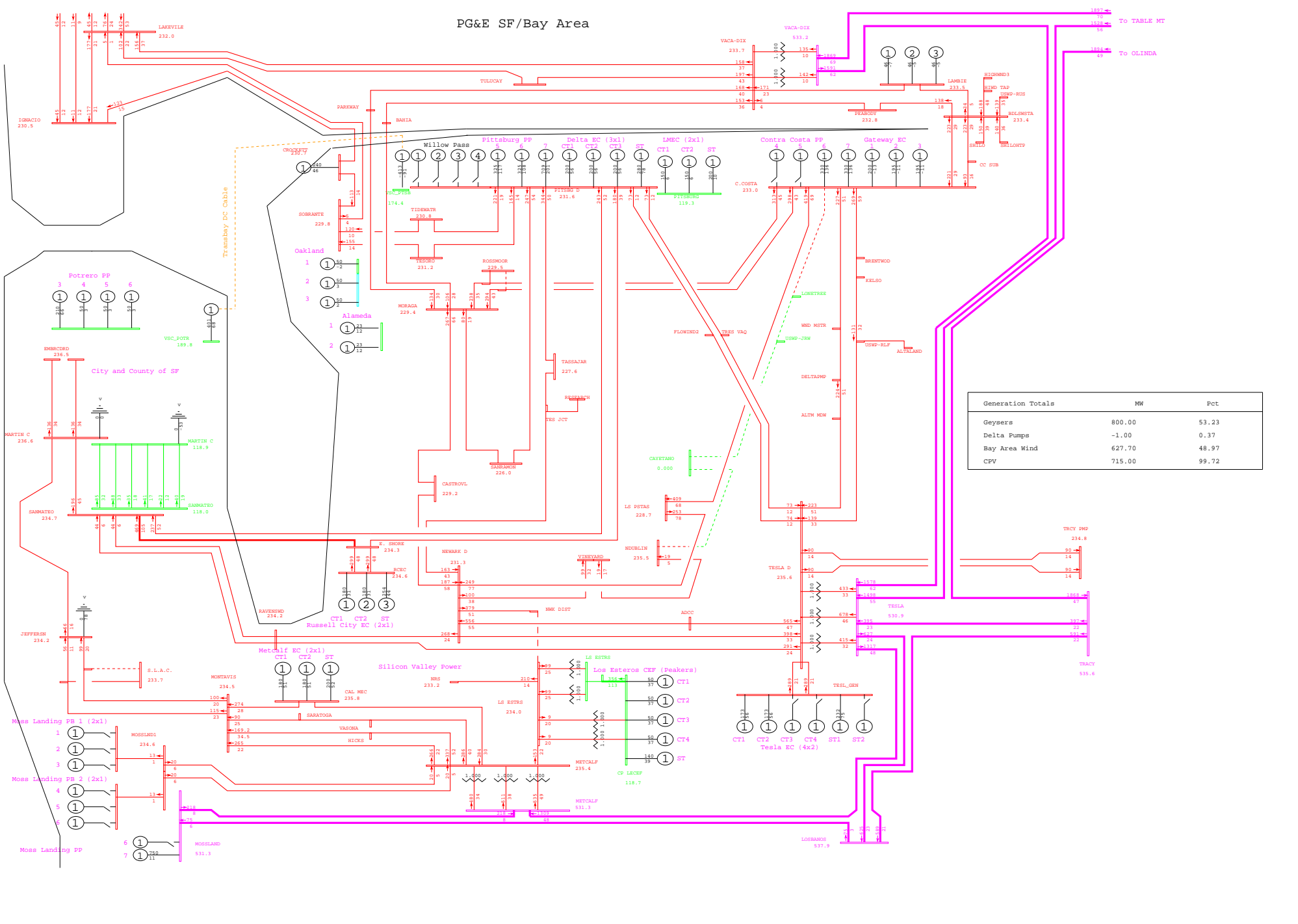
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:06 2008 wlopssv2-2013mrnt_pst_ptsb-482.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 CONTRA COSTA - LOS PSTAS & CONTRA COSTA - CAYETANO 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 482

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



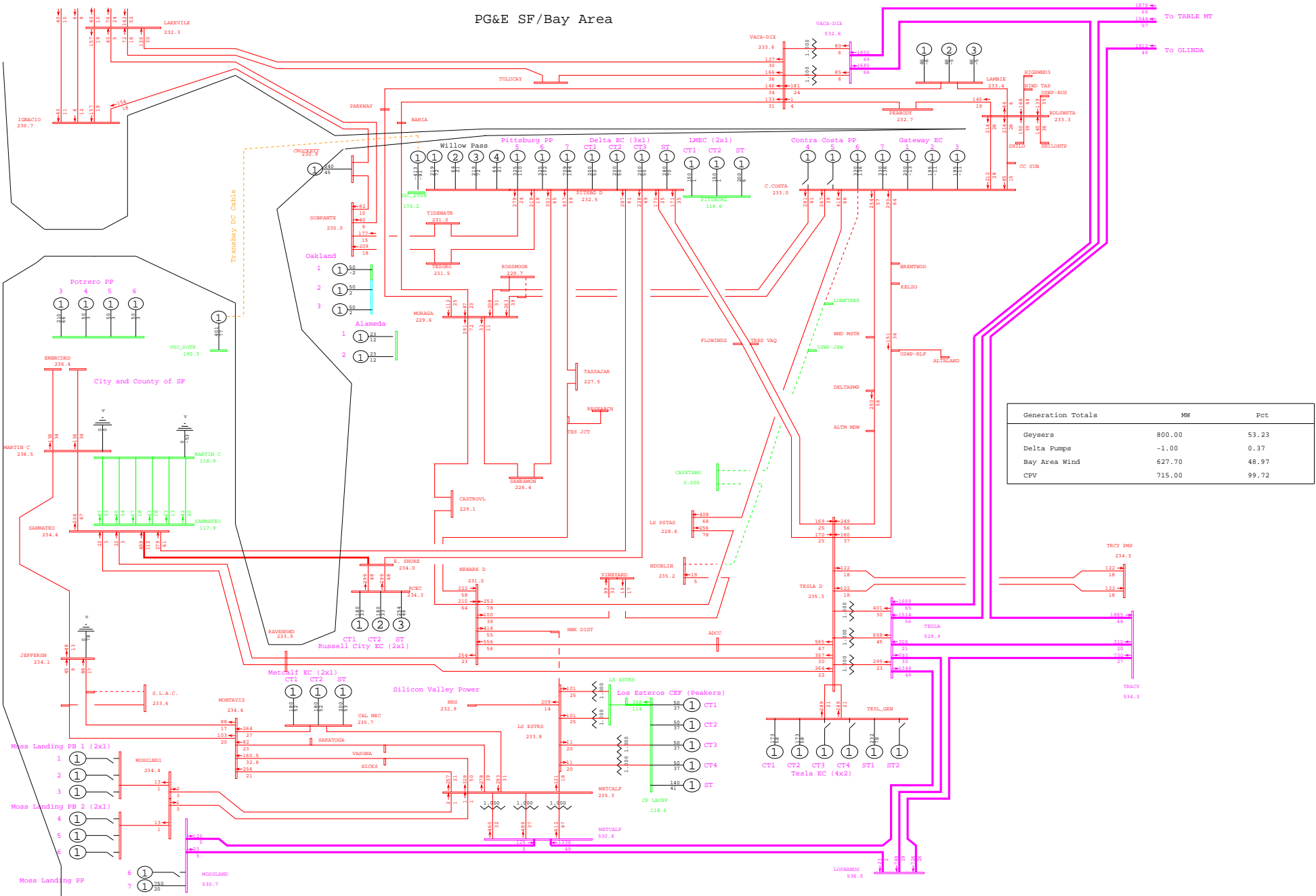
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:17 2008 wlopssv2-2013mrnt_pre_ptsb-483.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 CAYETANO - NDUBLIN & CONTRA COSTA - CAYETANO 230KV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 483
 MW/% rate
 bayarea_2013_PGE_v4.0rwa
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:50:07 2008 wlopssv2-2013mrnt_pst_ptsb-483.sav

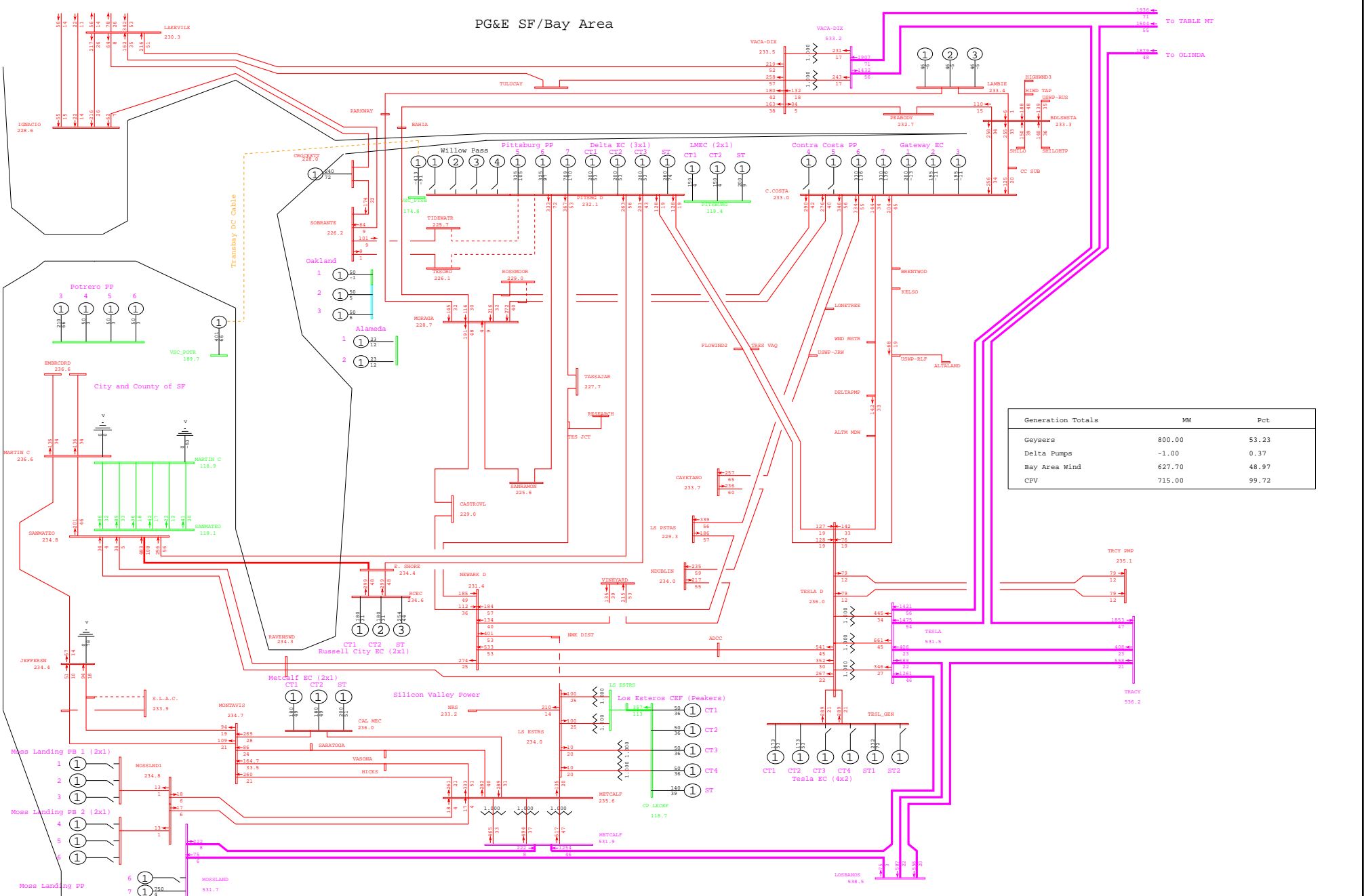


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 CAYETANO - NDUBLIN & CONTRA COSTA - CAYETANO 230KV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 483

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

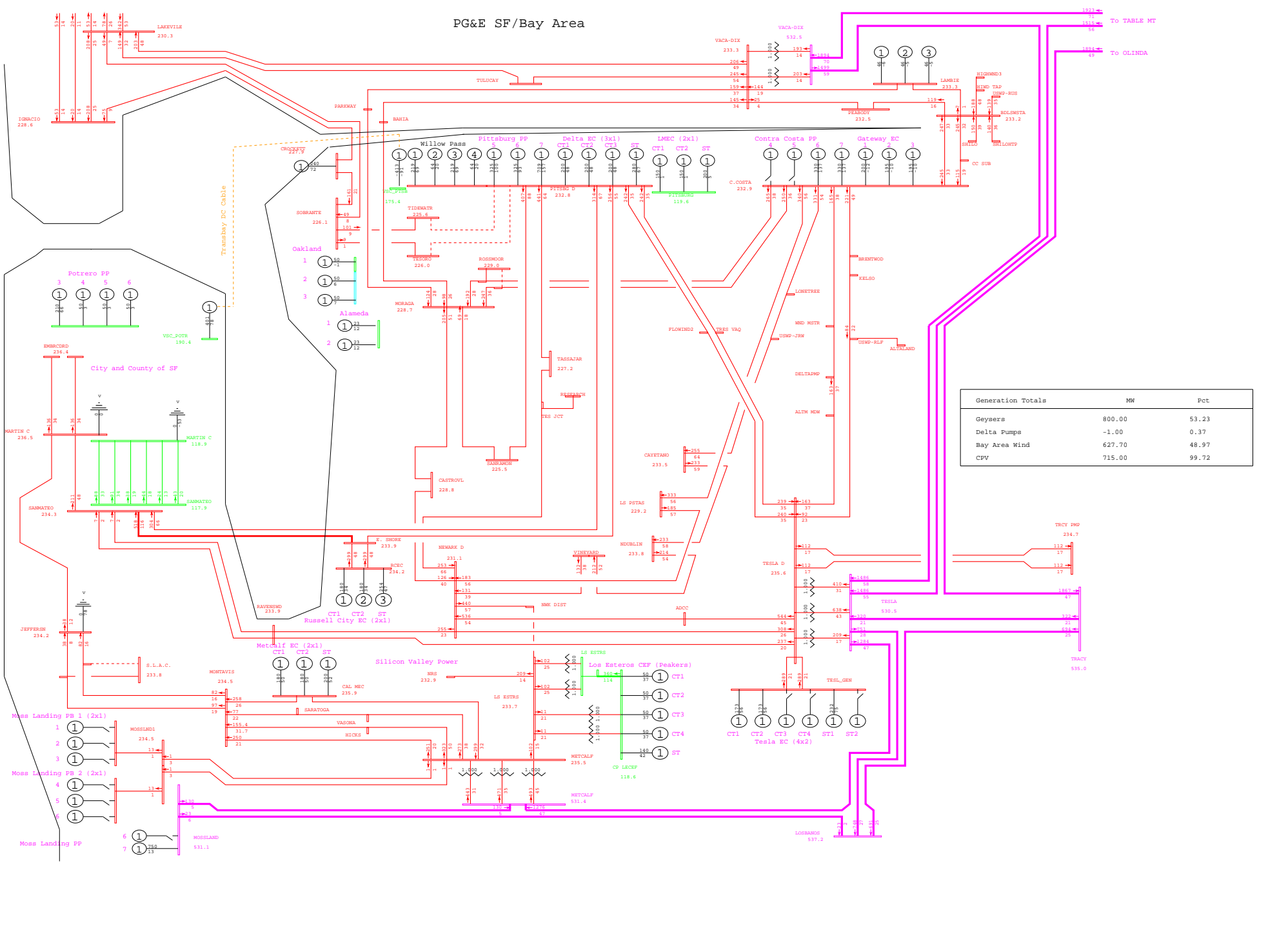
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:18 2008 wlopssv2-2013mrnt_pre_ptsb-484.sav




PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 PITTSBURG - TESORO & PITTSBURG - TIDEWATER 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 484
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:50:08 2008 wlopssv2-2013mrnt_pst_ptsb-484.sav

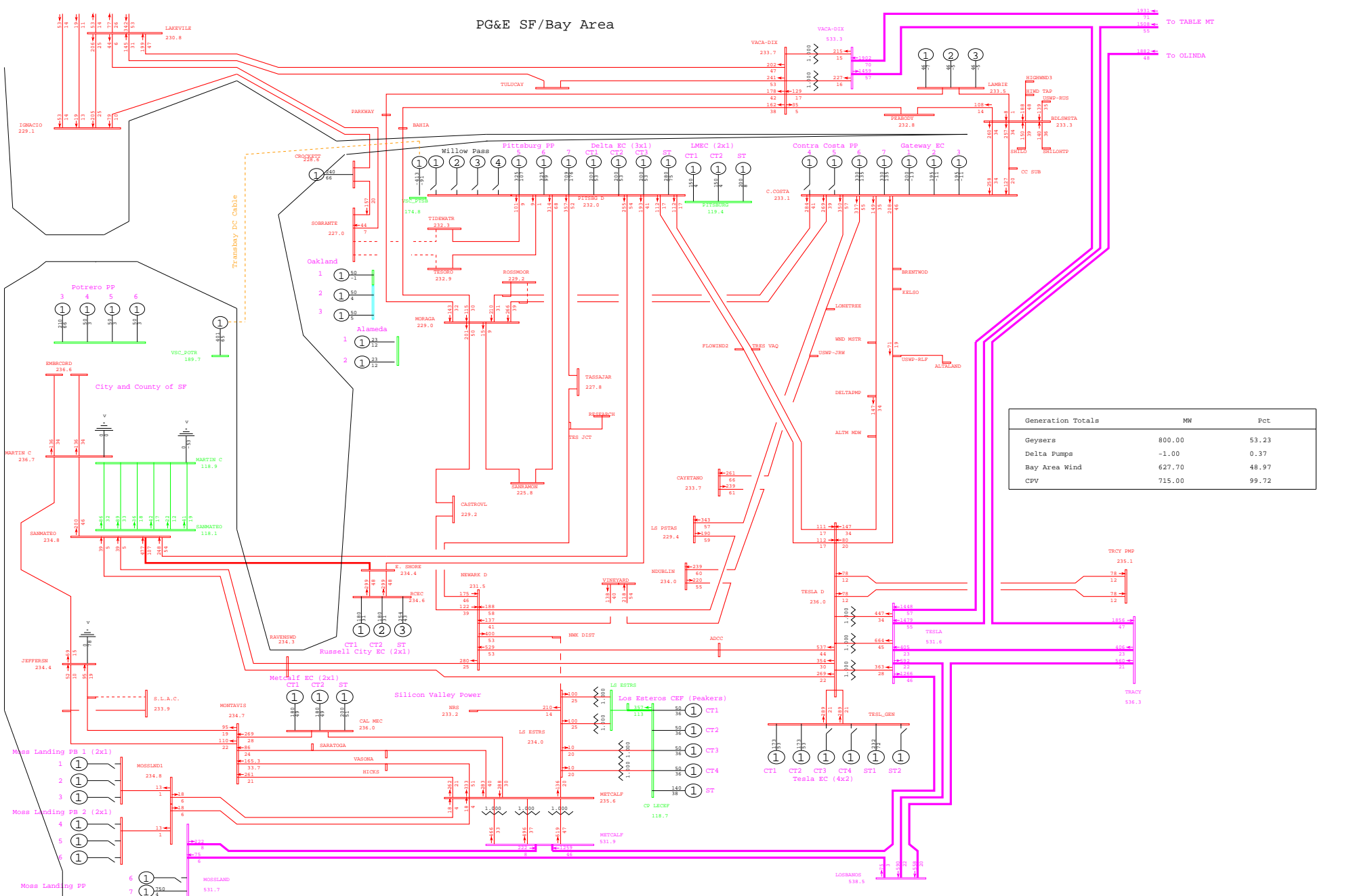


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 PITTSBURG - TESORO & PITTSBURG - TIDEWATER 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 484

MW/% rate
 bayarea_2013_PGE_v4.0.rtf
 Rating = 2

PG&E SF/Bay Area



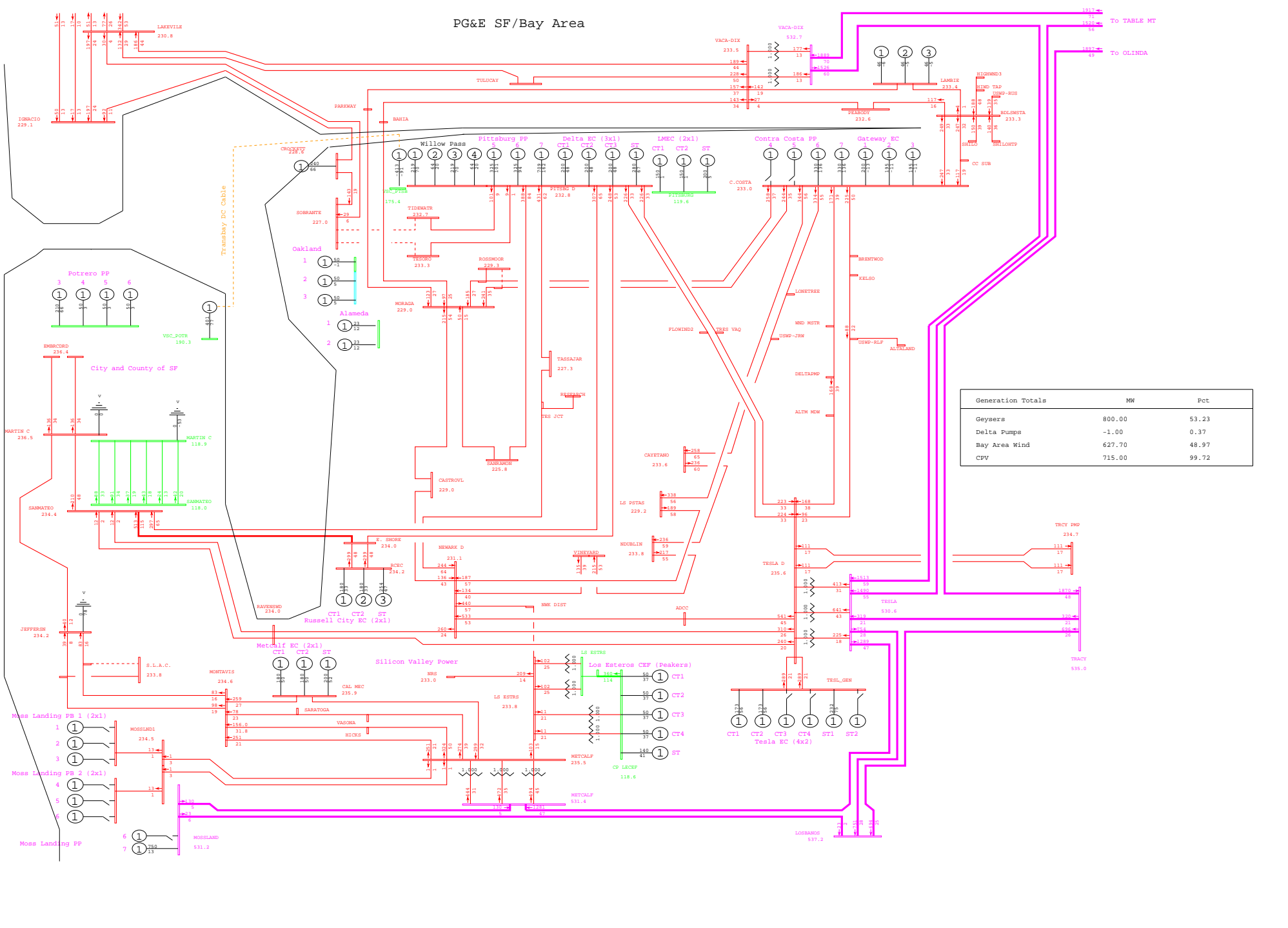
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:19 2008 wlopssv2-2013mrnt_pre_ptsb-485.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 TESORO - SOBRANTE & TIDEWATER - SOBRANTE 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 485

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

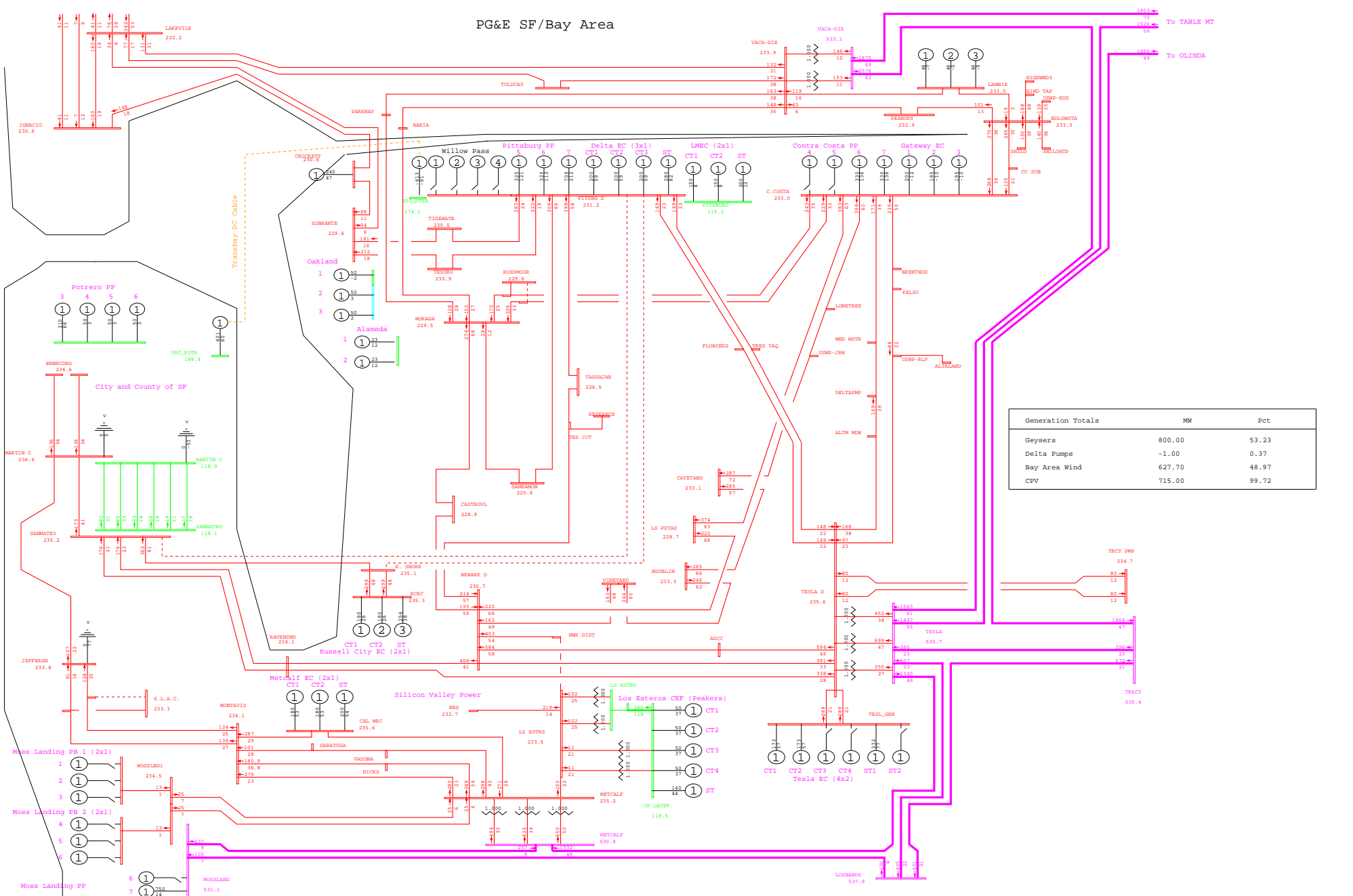
PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72



PG&E SF/Bay Area



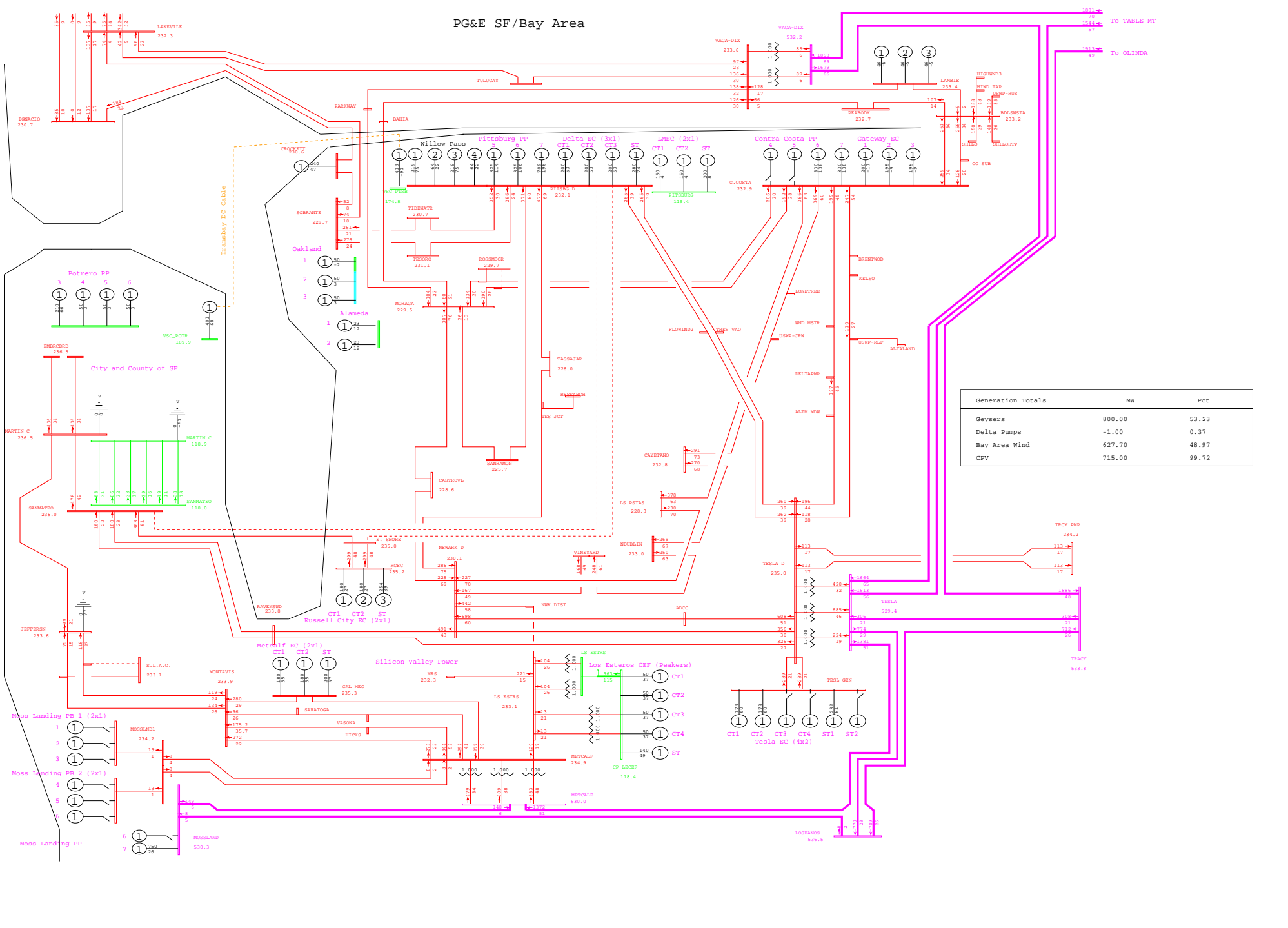
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:20 2008 wloppsv2-2013mrnt_pre_ptsb-486.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 PITTSBURG - SANMATEO & PITTSBURG - EAST SHORE 230kV LINES
 wloppsv2.pfp, STEADY STATE, CASE NUMBER 486
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

General Electric International, Inc. PSLF Program Fri Sep 26 20:50:10 2008 wlopssv2-2013mrnt_pst_ptsb-486.sav

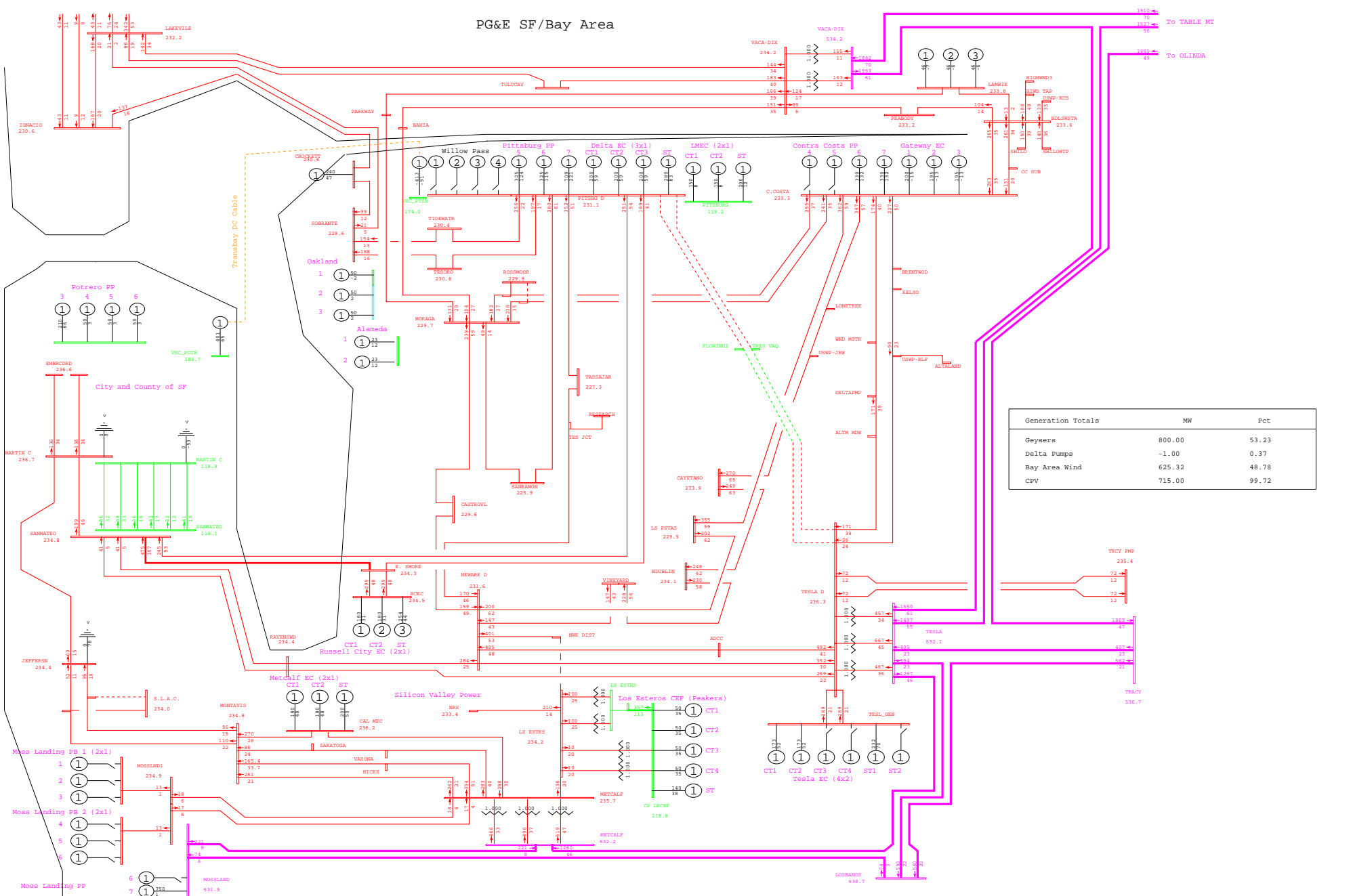


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 PITTSBURG - SANMATEO & PITTSBURG - EAST SHORE 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 486

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



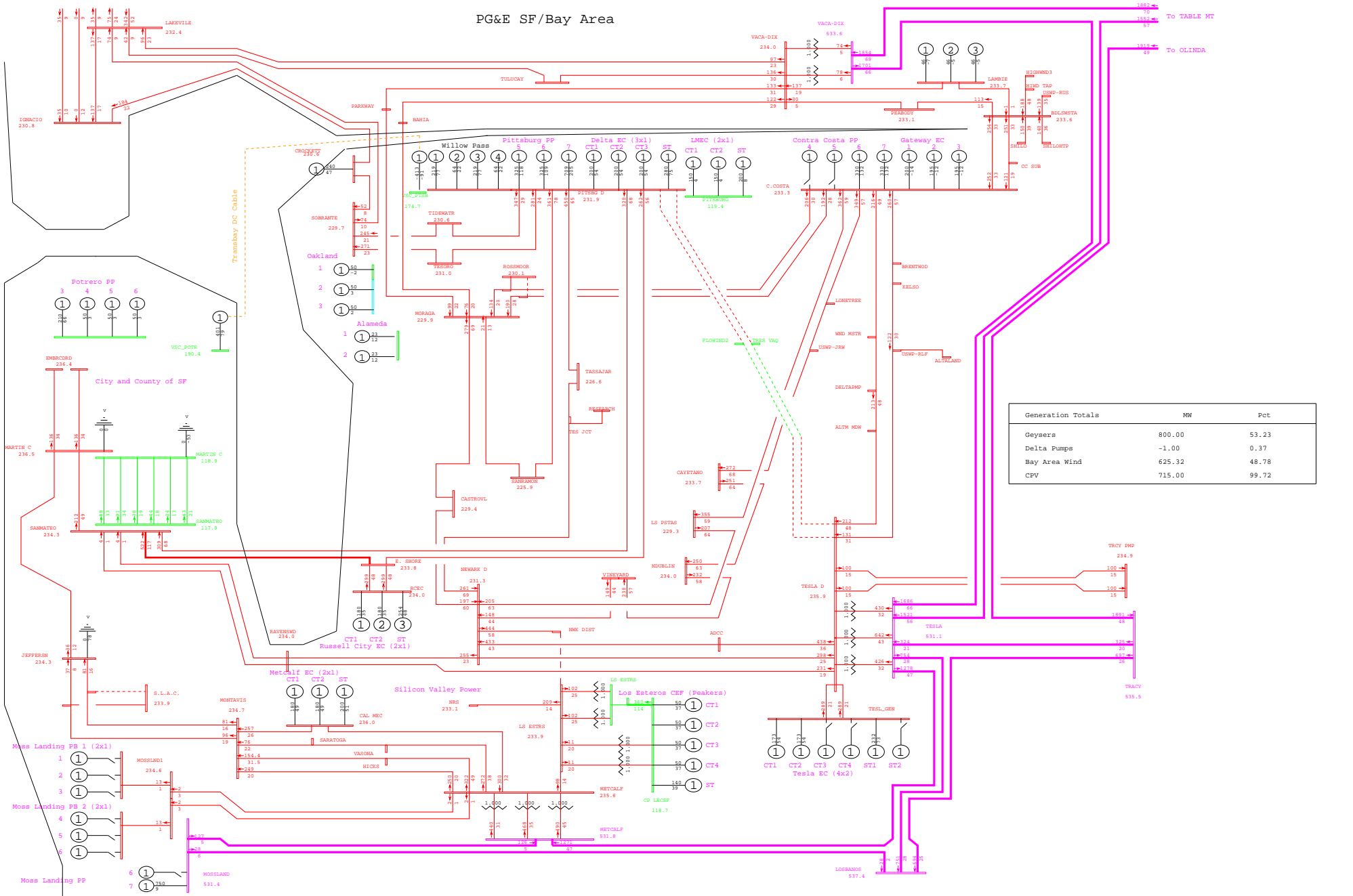
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:21 2008 wlopssv2-2013mrnt_pre_ptsb-487.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 PITTSBURG - TESLA #1 & #2 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 487

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:50:11 2008 wlopssv2-2013mrnt_pst_ptsb-487.sav

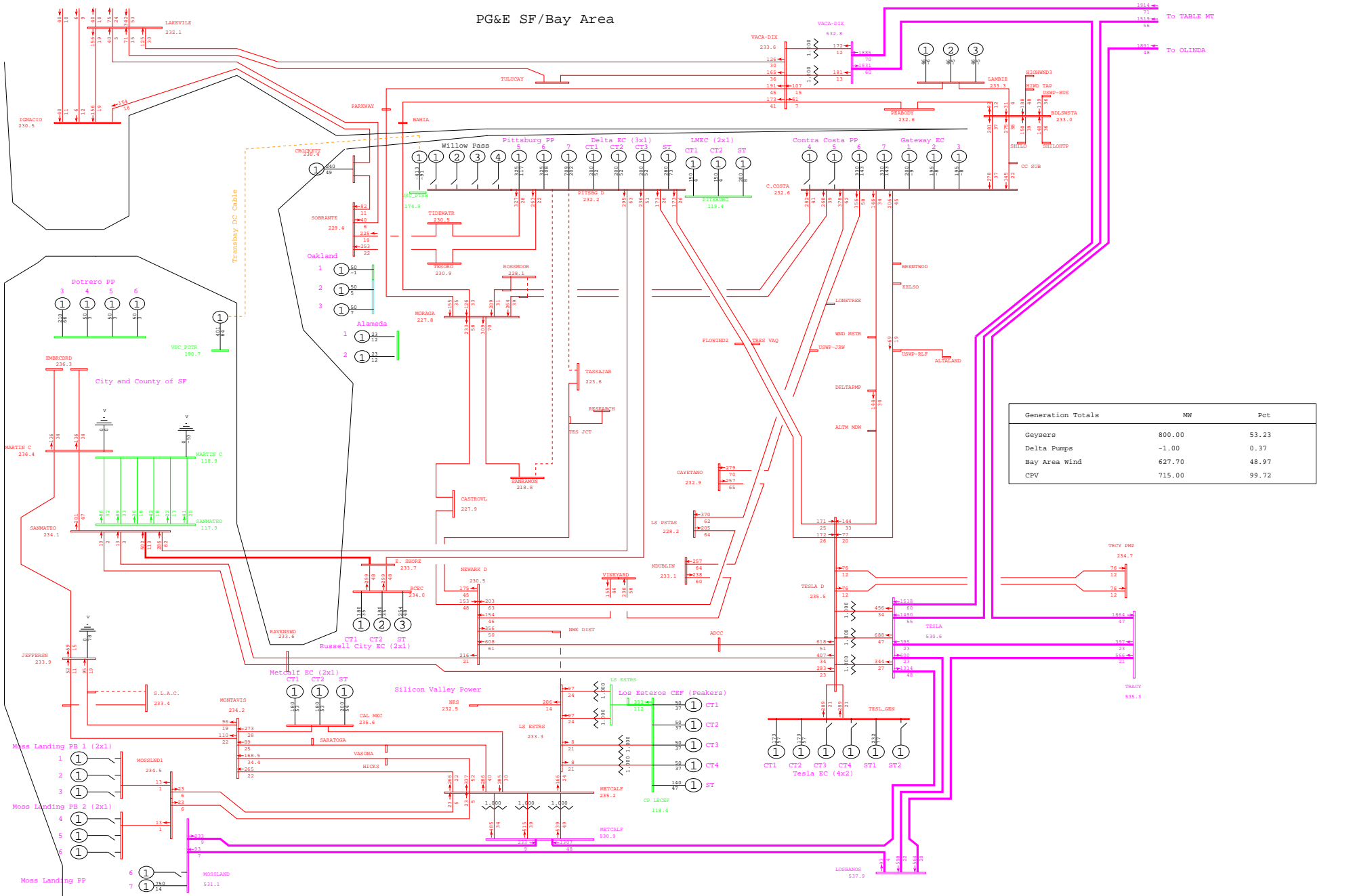


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 PITTSBURG - TESLA #1 & #2 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 487

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:53:21 2008 wlopssv2-2013mrnt_pre_ptsb-488.sav

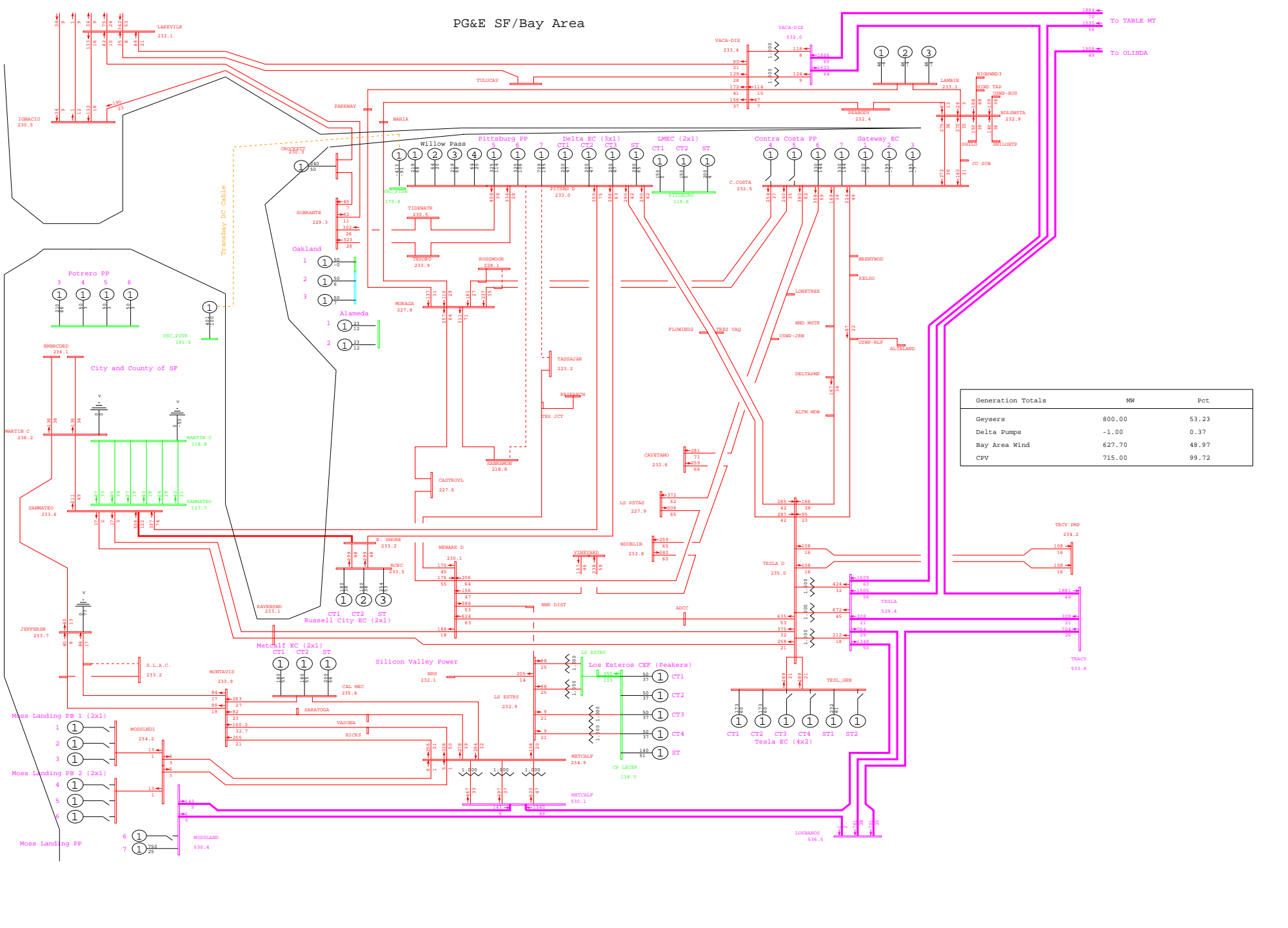


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 PITTSBURG - TASSAJARA & PITTSBURG - SAN RAMON 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 488

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



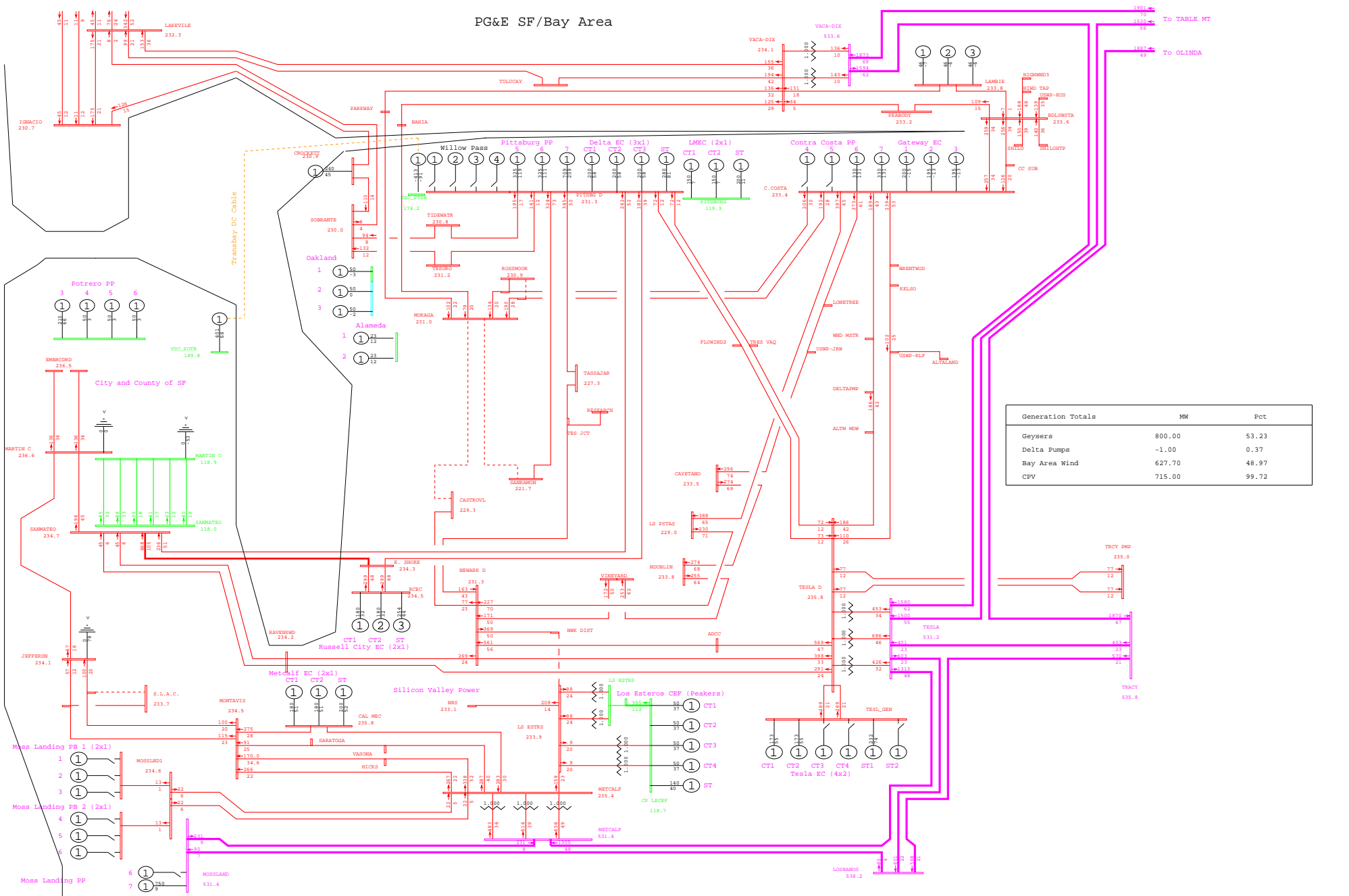
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:12 2008 wlopssv2-2013mrnt_pst_ptsb-488.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 PITTSBURG - TASSAJARA & PITTSBURG - SAN RAMON 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 488

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



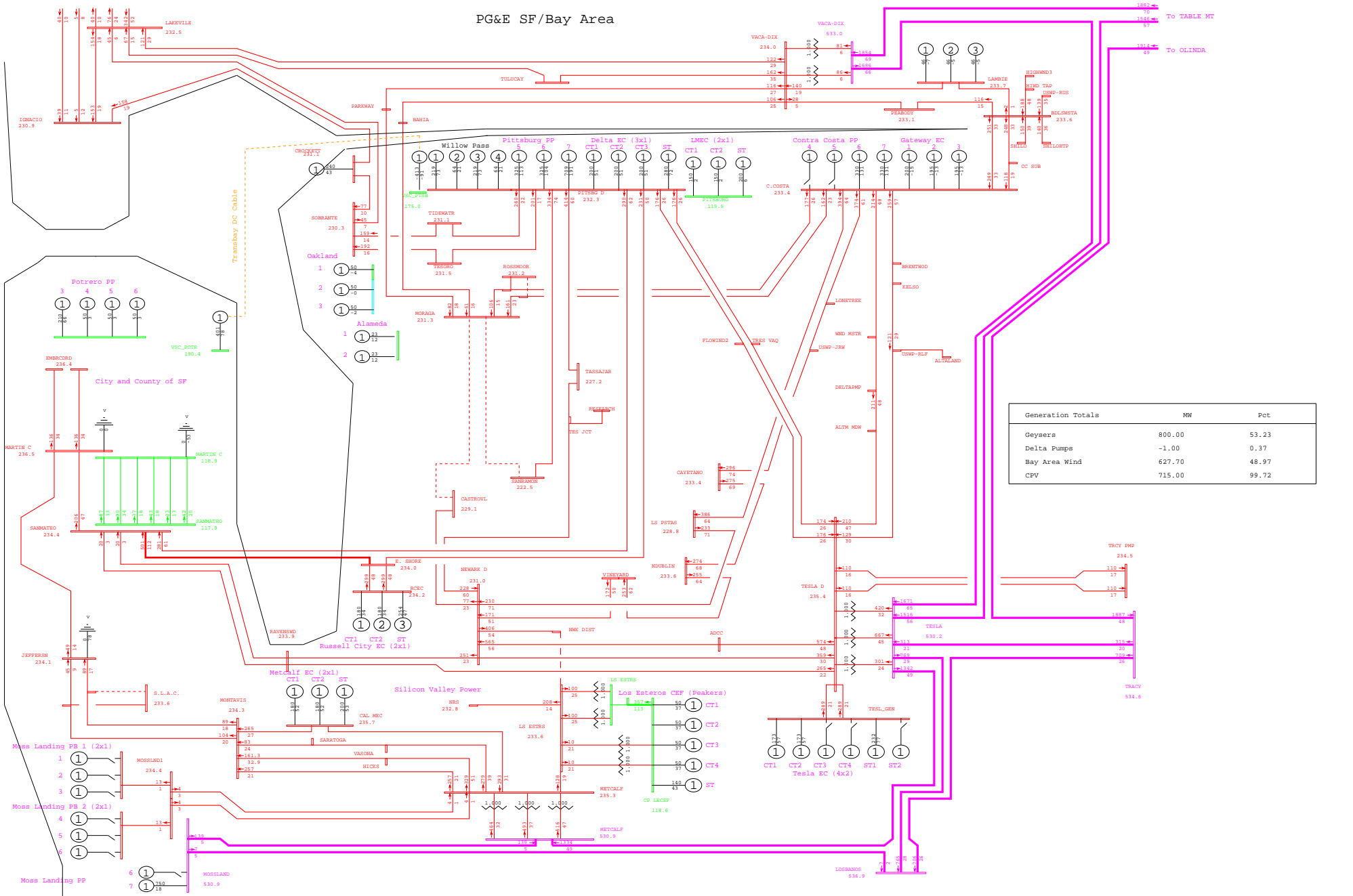
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:22 2008 wlopssv2-2013mrnt_pre_ptsb-490.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 MORAGA - SANRAMON & MORAGA - CASTROVALLY 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 490
 MW/% rate
 bayarea_2013_PGE_v4.0r.w
 Rating = 2

PG&E SF/Bay Area



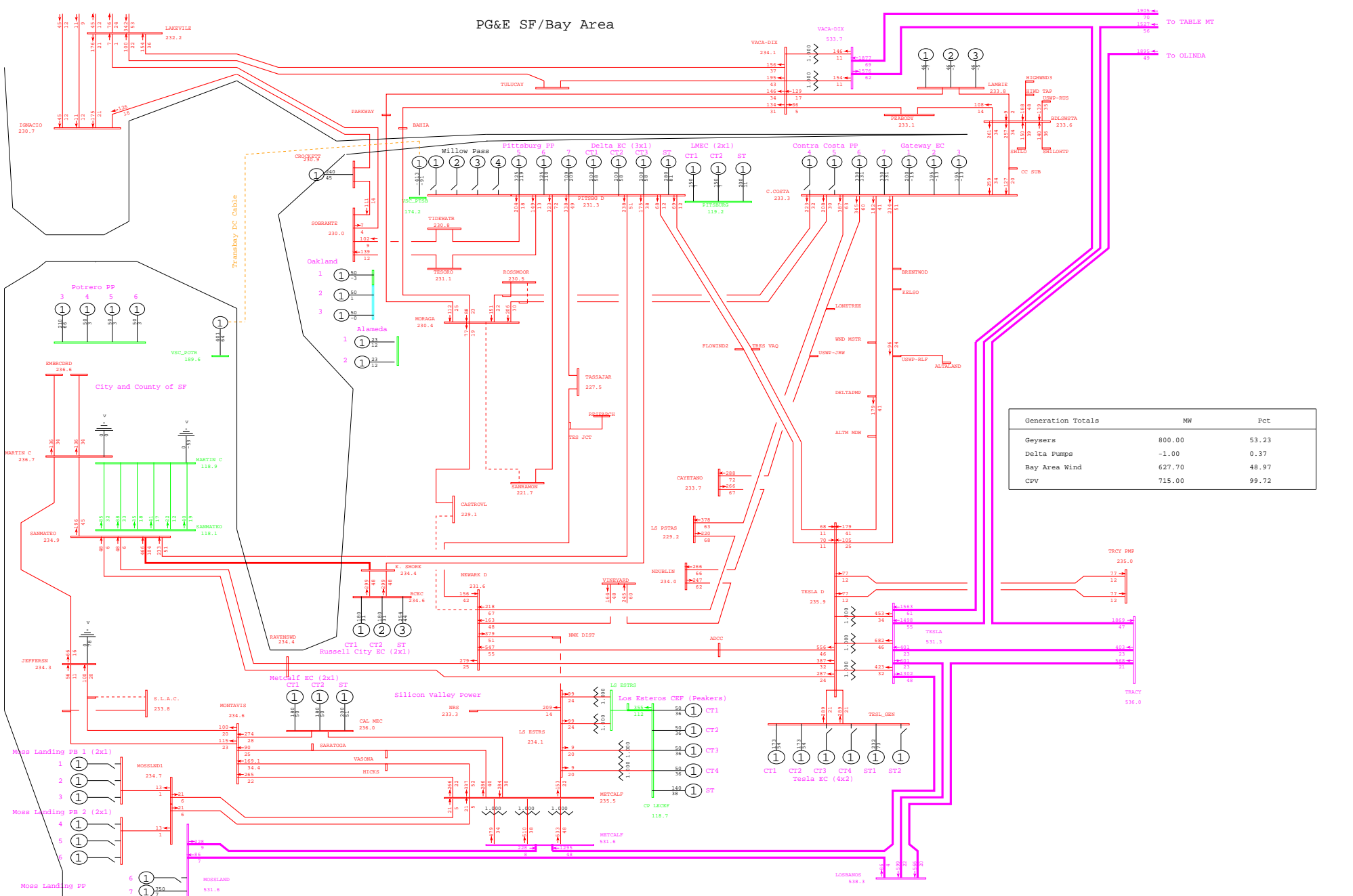
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:13 2008 wlopssv2-2013mrnt_pst_ptsb-490.sav




PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 MORAGA - SANRAMON & MORAGA - CASTROVALLY 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 490
 MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area

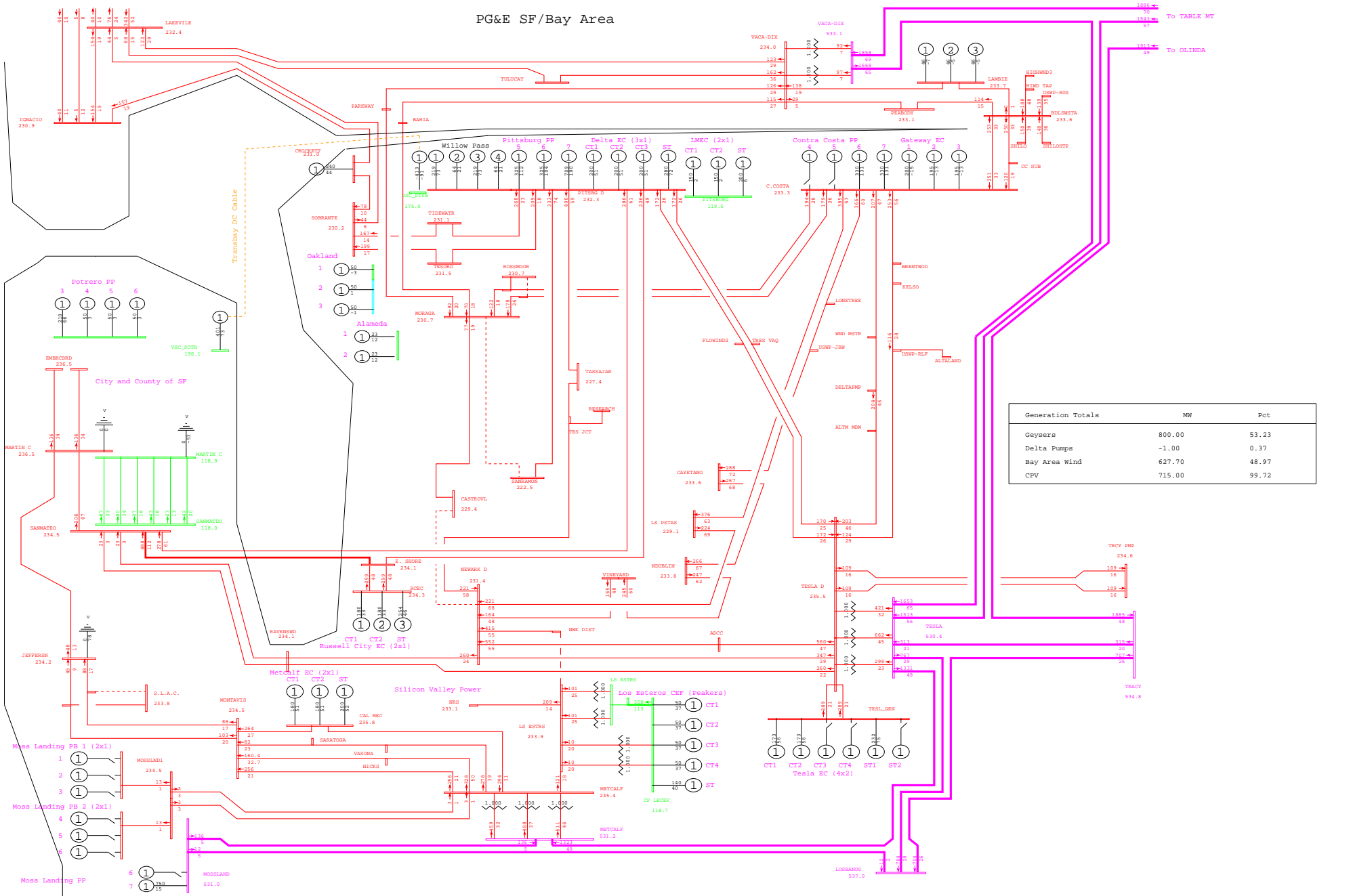


General Electric International, Inc. PSLF Program Fri Sep 26 20:53:23 2008 wlopssv2-2013mrnt_pre_ptsb-491.sav



 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 MORAGA - SANRAMON & CASTROVALLY - NEWARK 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 491
 MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:50:15 2008 wlopssv2-2013mrnt_pst_ptsb-491.sav

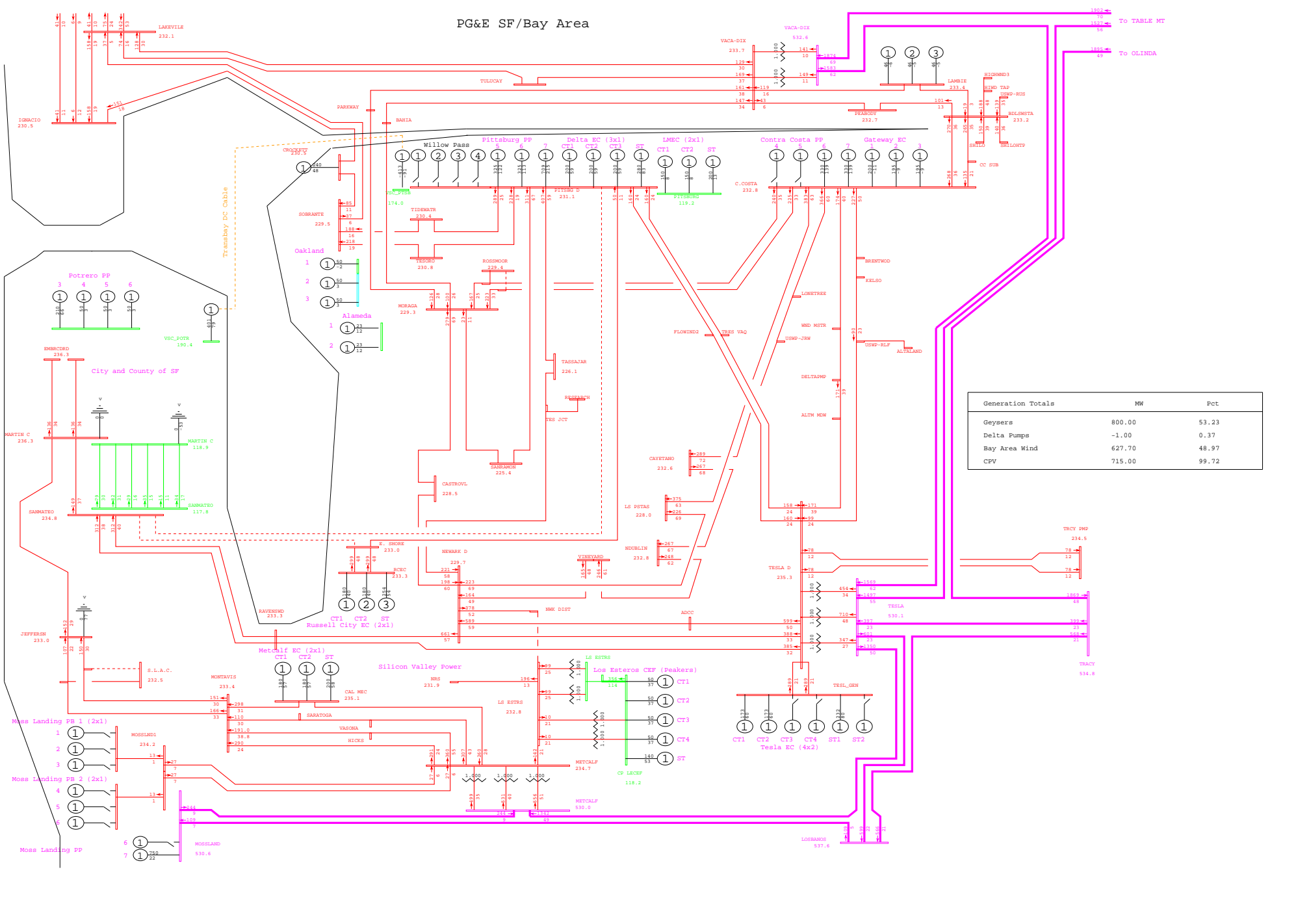


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

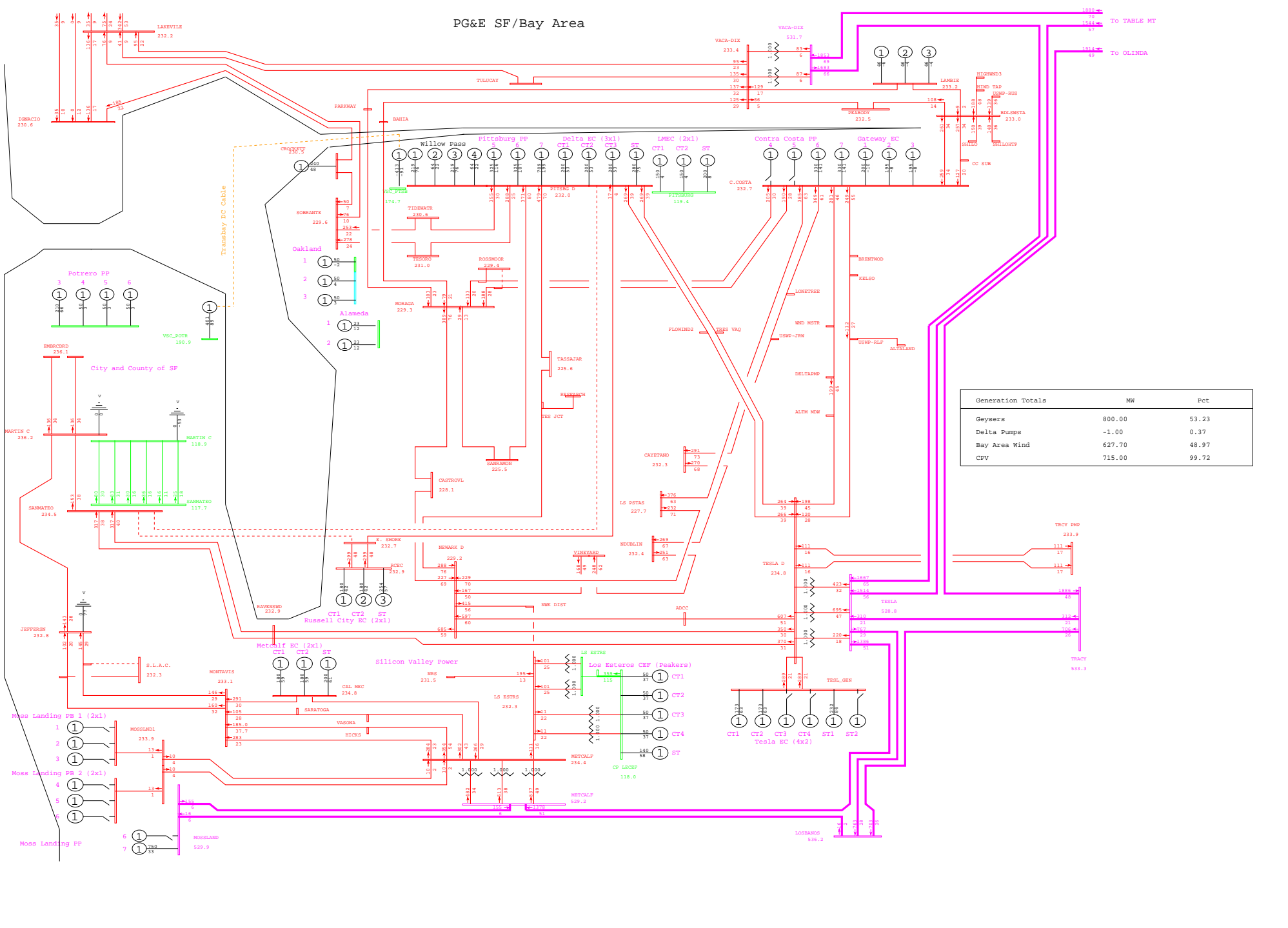
N-2 MORAGA - SANRAMON & CASTROVALLY - NEWARK 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 491

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2


PG&E SF/Bay Area



PG&E SF/Bay Area



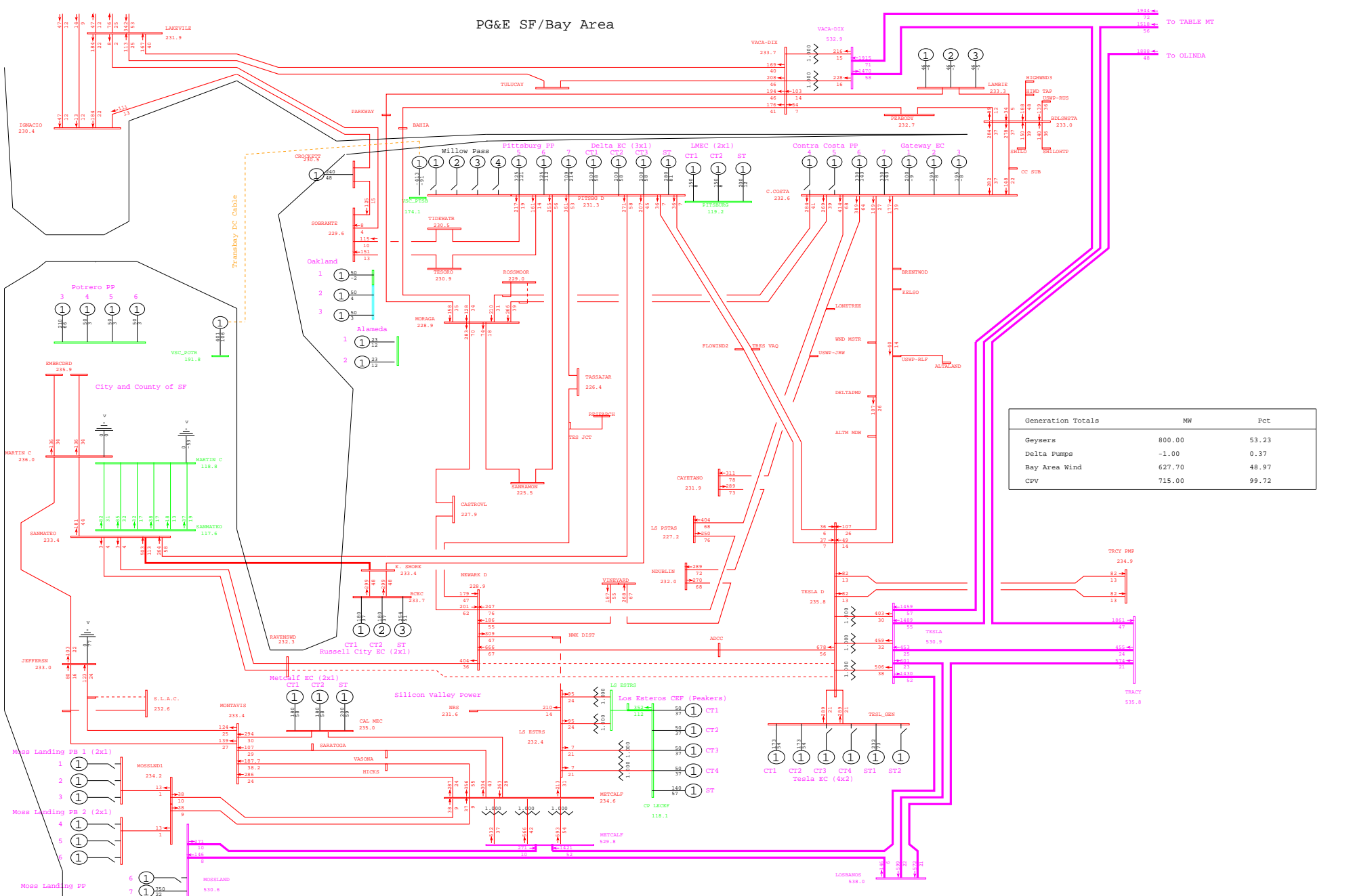
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:16 2008 wlopssv2-2013mrnt_pst_ptsb-492.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 PITTSBURG - SAN MATEO & EAST SHORE - SAN MATEO 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 492
 MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

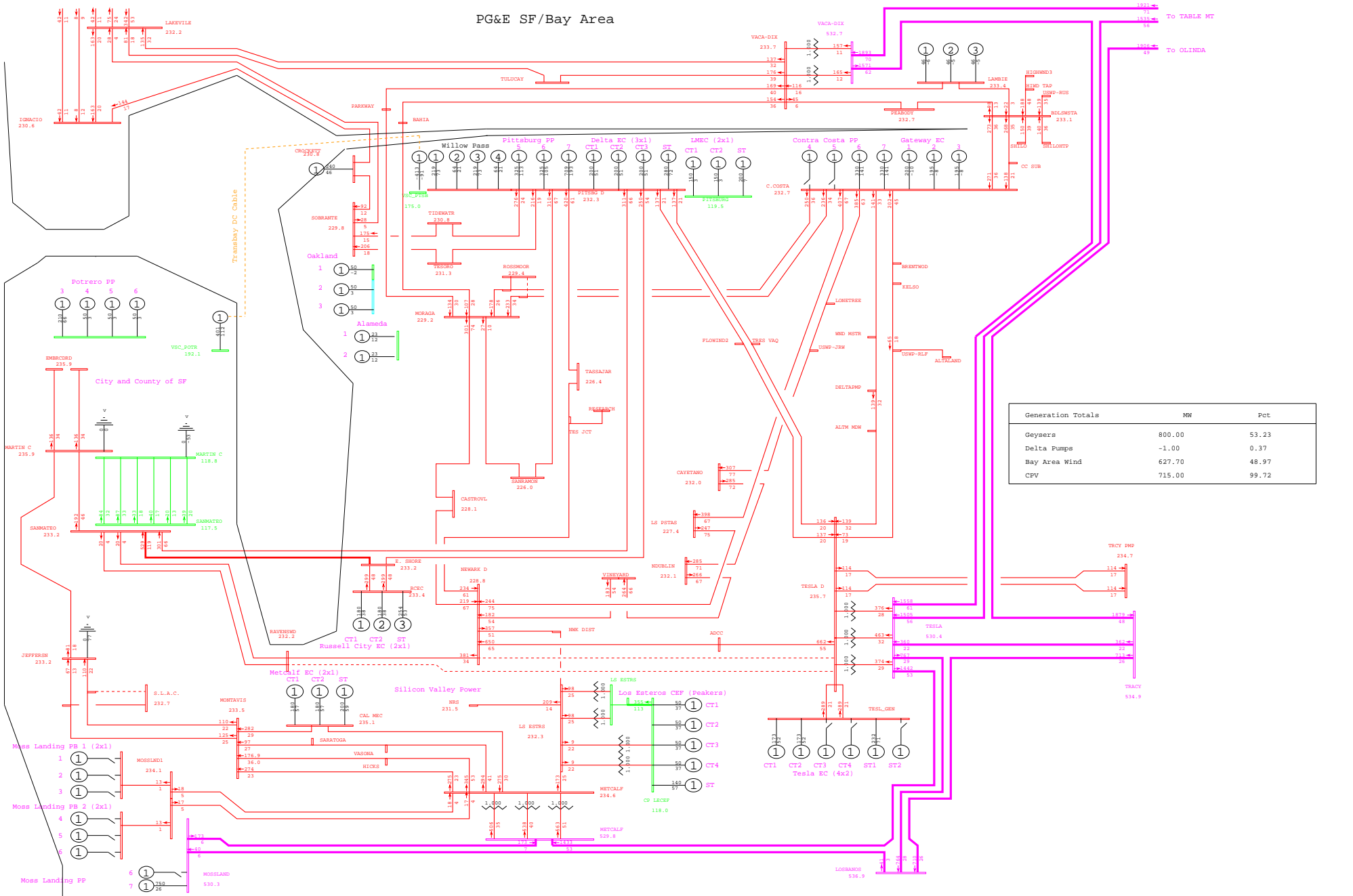
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:25 2008 wlopssv2-2013mrnt_pre_ptsb-493.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

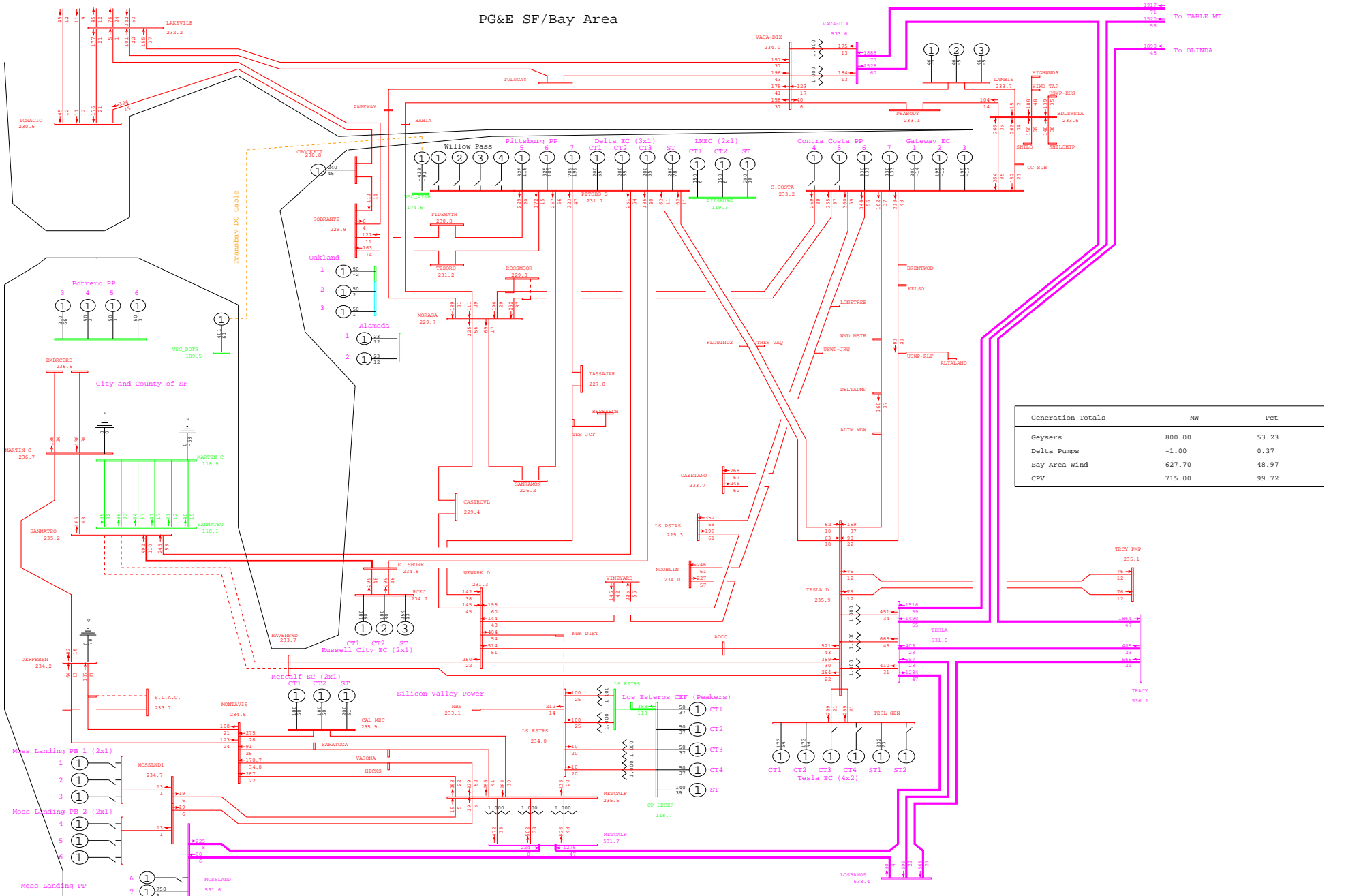
N-2 TESLA - NEWARK & TESLA - RAVENSWOOD 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 493
 MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



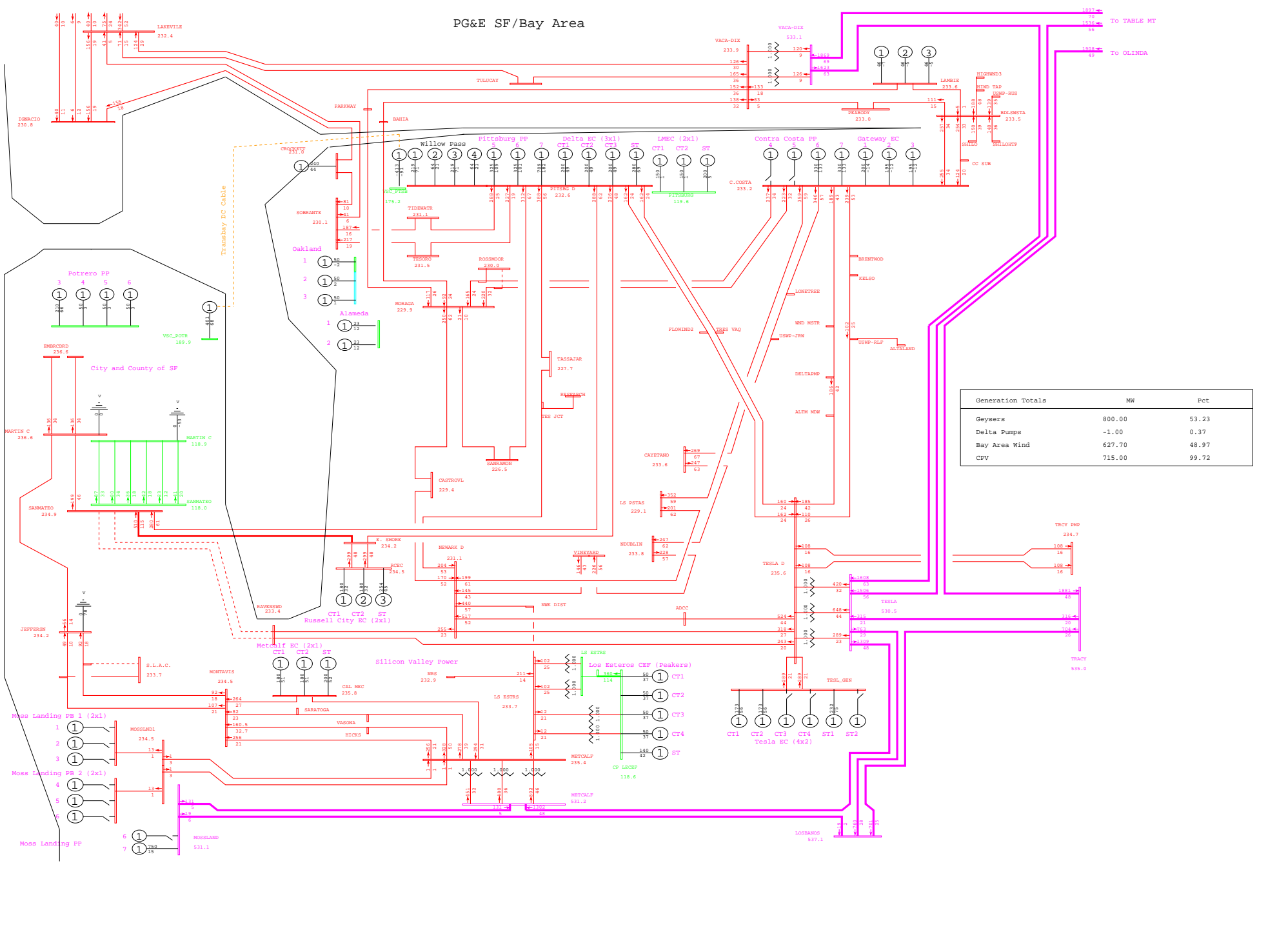
Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

PG&E SF/Bay Area



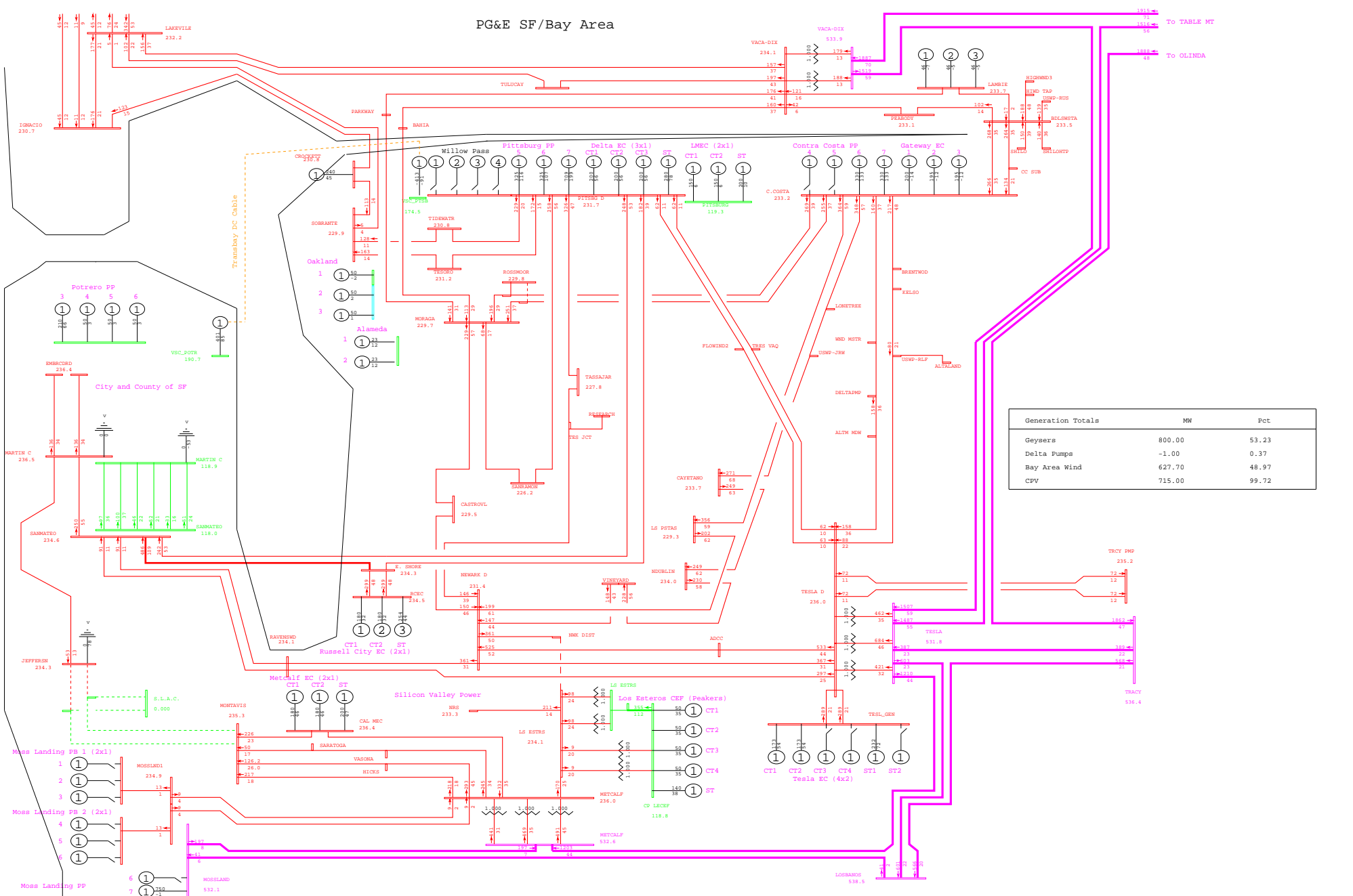
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:18 2008 wlopssv2-2013mrnt_pst_ptsb-494.sav




PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 RAVENSWOOD - SAN MATEO #1 & #2 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 494
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



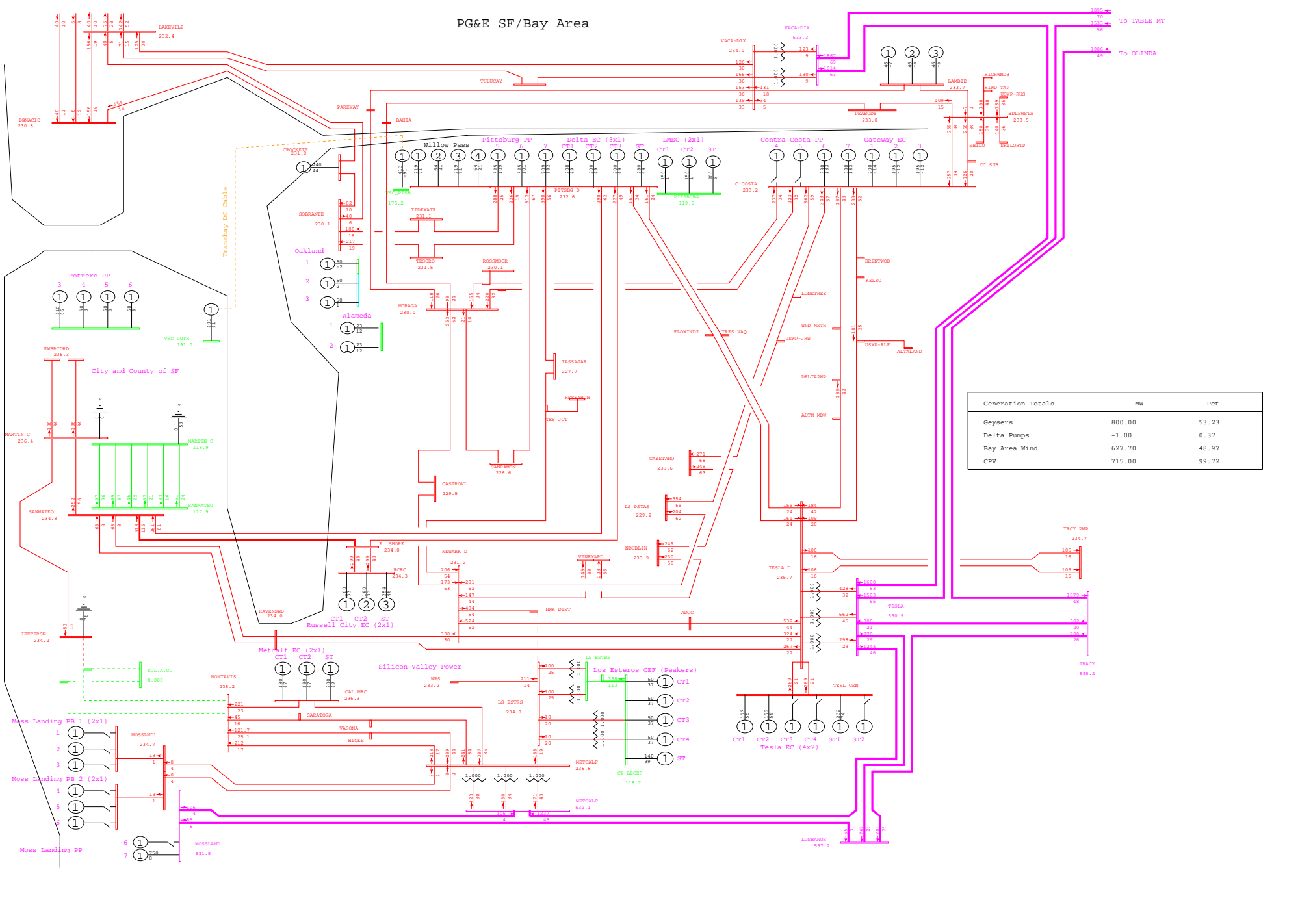
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:27 2008 wlopssv2-2013mrnt_pre_ptsb-495.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 MONTAVISTA - JEFFERSON 230kV #1 & #2 LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 495

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



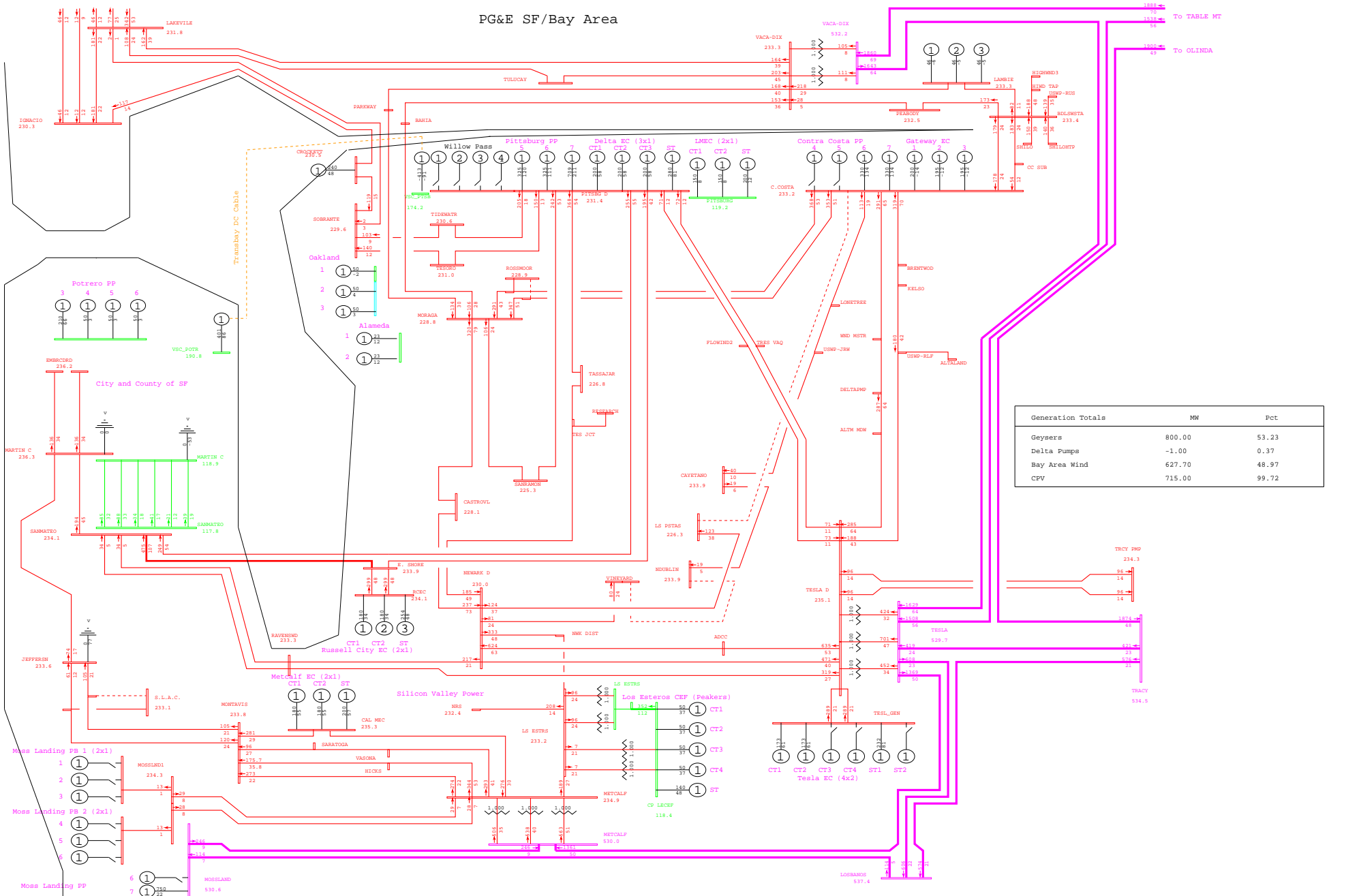
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:19 2008 wlopssv2-2013mrnt_pst_ptsb-495.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 MONTAVISTA - JEFFERSON 230kV #1 & #2 LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 495

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



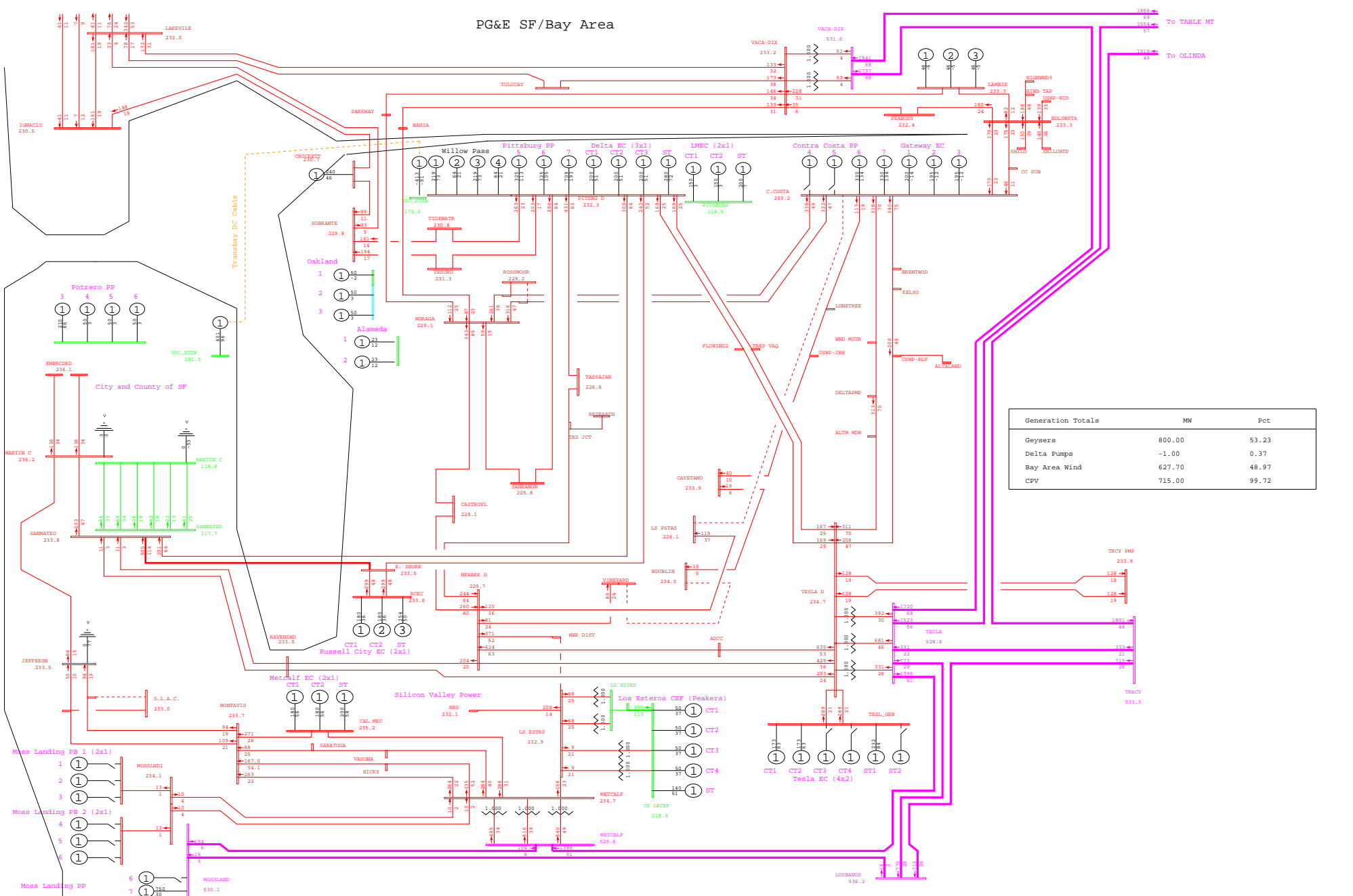
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:28 2008 wlopssv2-2013mrnt_pre_ptsb-496.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 NORTH DUBLIN - VINYARD & CONTRA COSTA - LOS PASITAS 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 496


MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

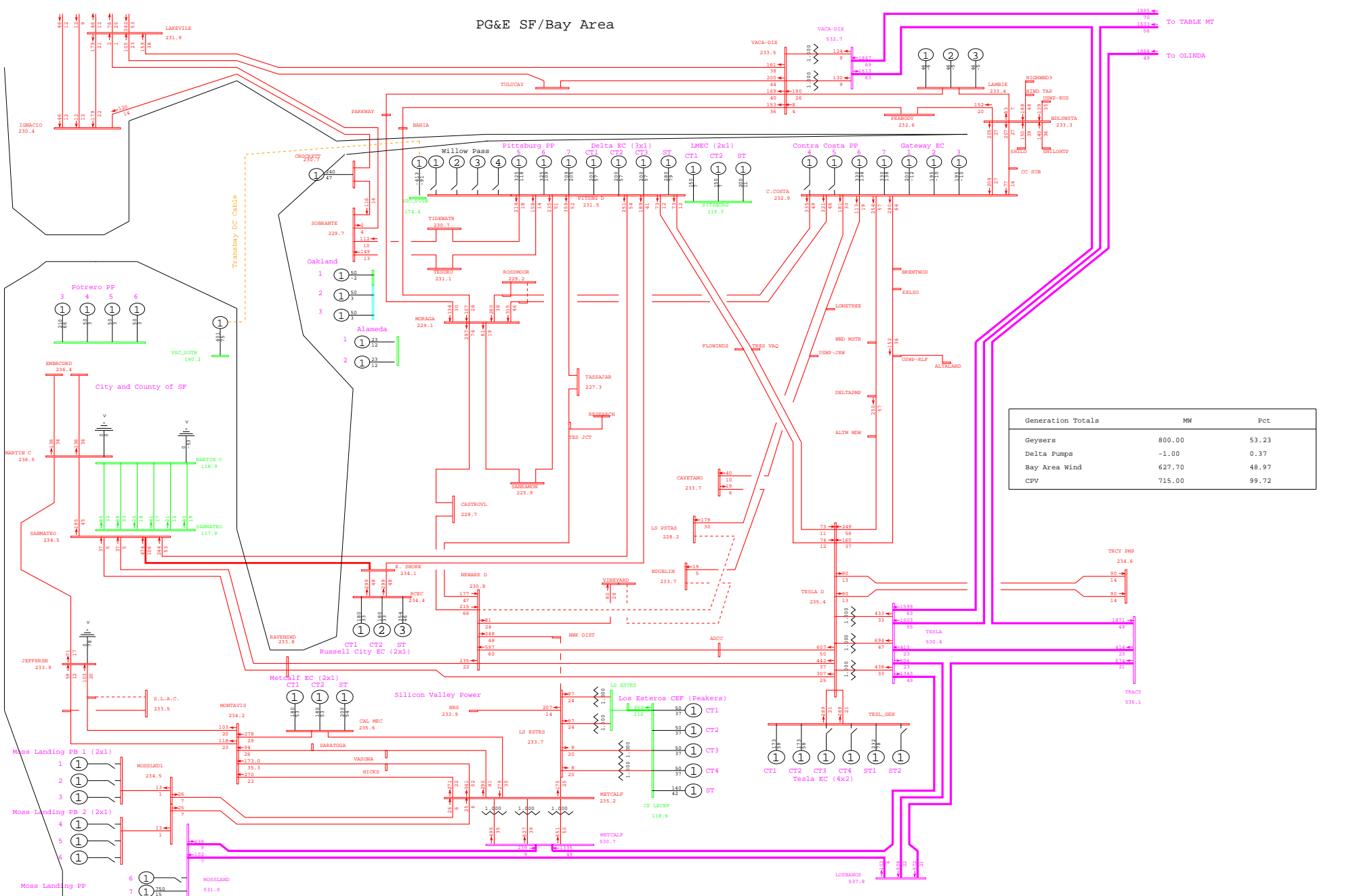
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:20 2008 wlopssv2-2013mrnt_pst_ptsb-496.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 NORTH DUBLIN - VINYARD & CONTRA COSTA - LOS PASITAS 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 496

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



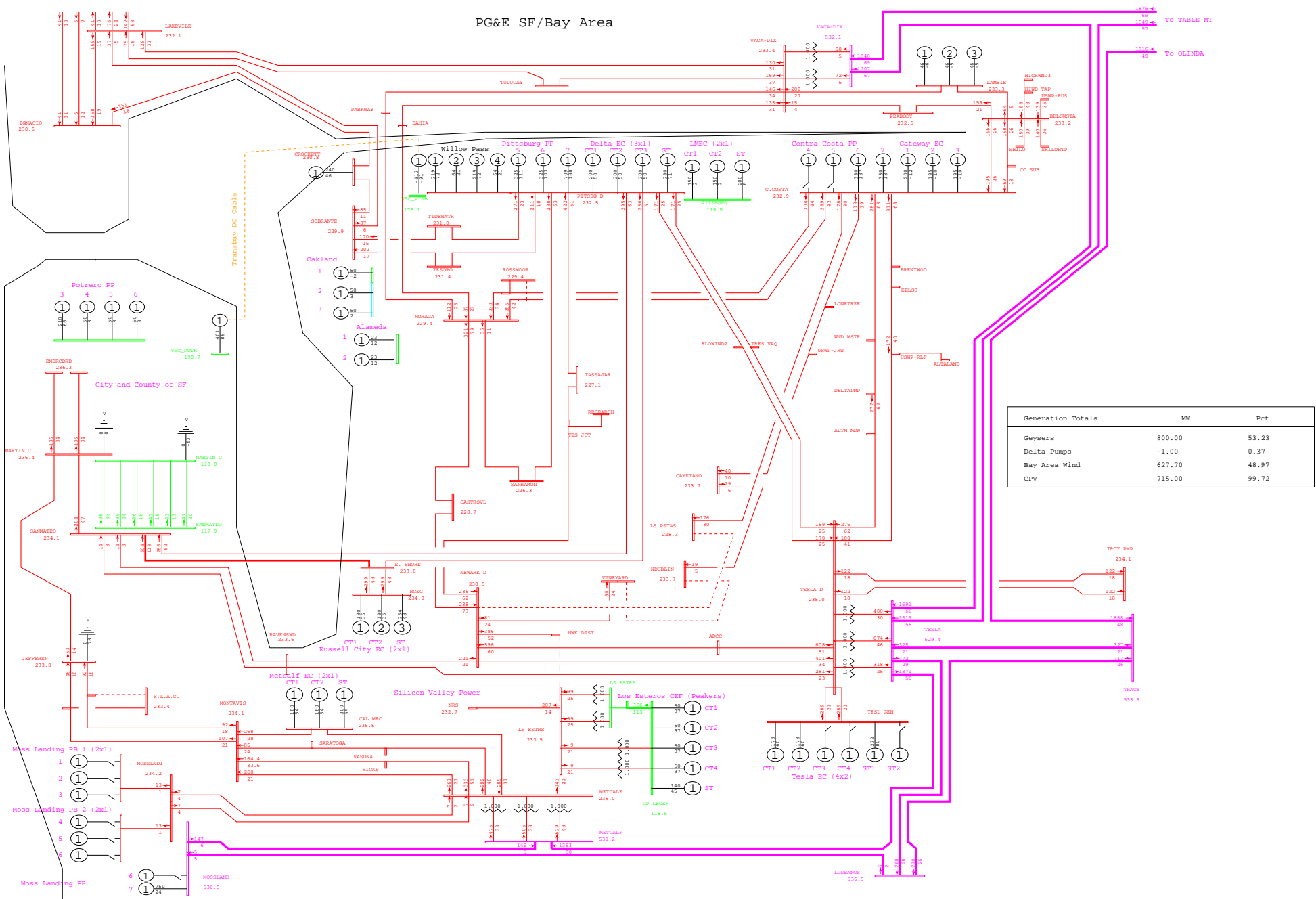
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:28 2008 wlopssv2-2013mrnt_pre_ptsb-497.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

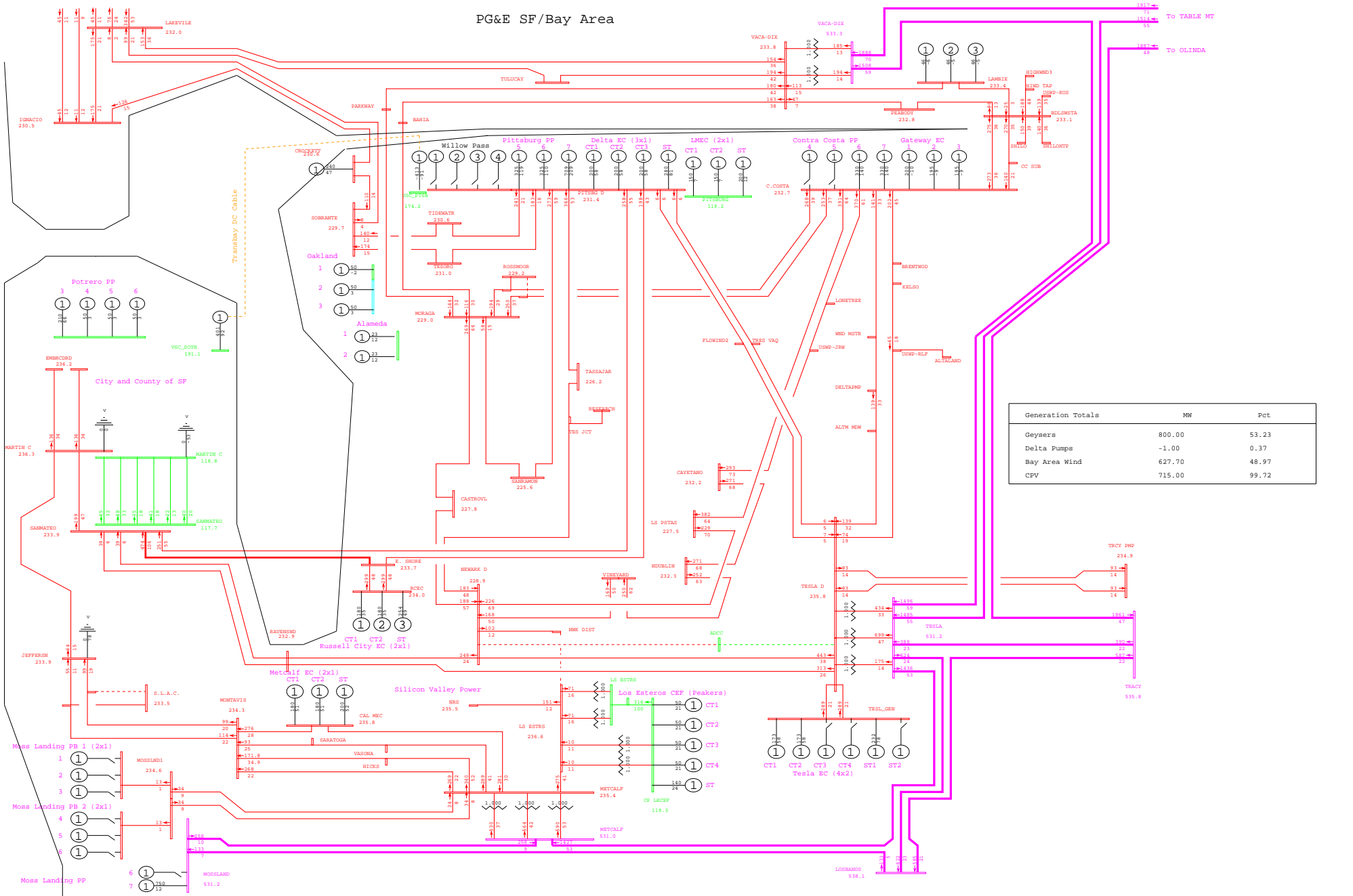
N-2 NORTH DUBLIN - VINYARD & LOS PASITAS - NEWARK 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 497

MW/% rate
 bayarea_2013_PGE_v4.0.rtf
 Rating = 2

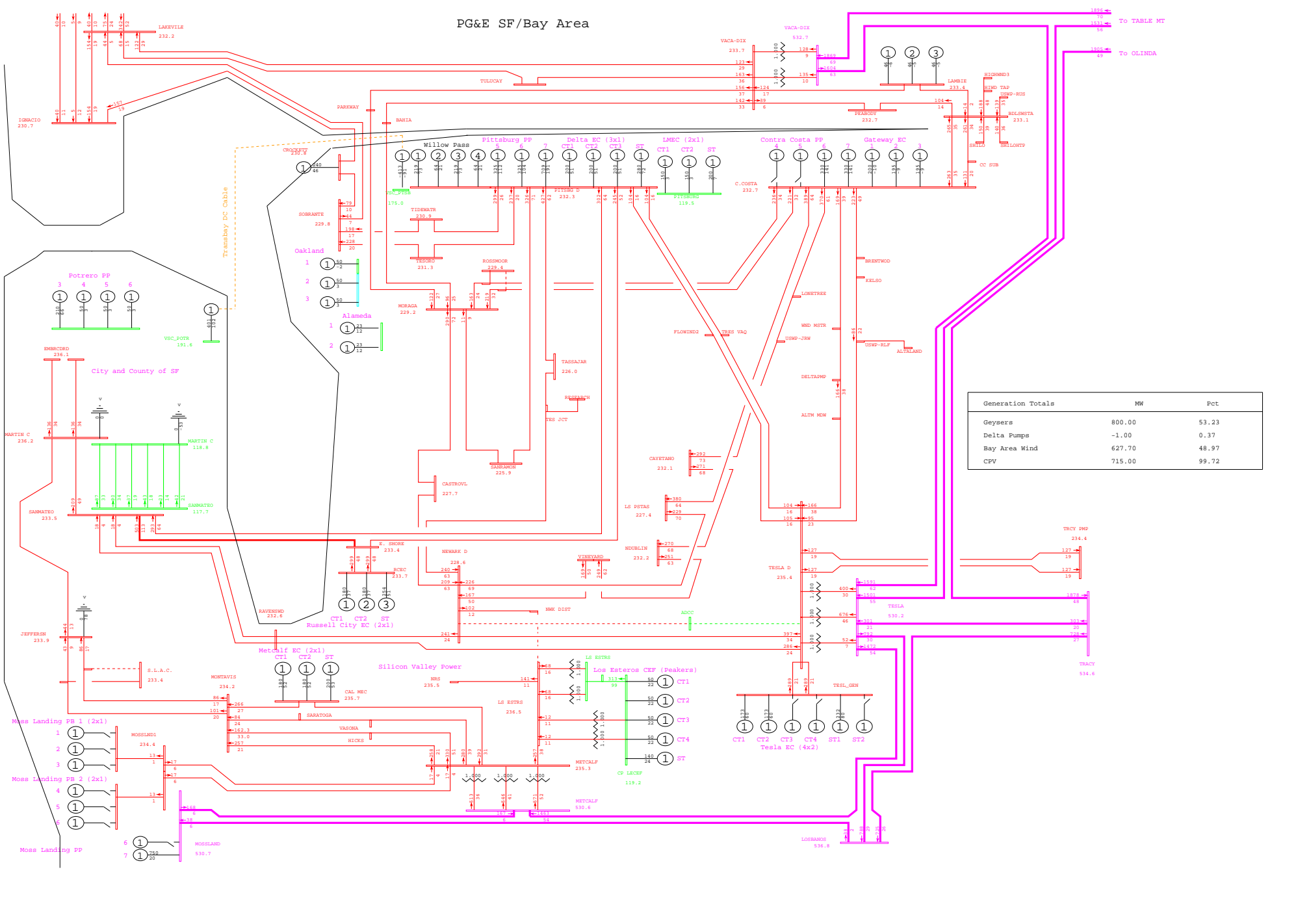
PG&E SF/Bay Area



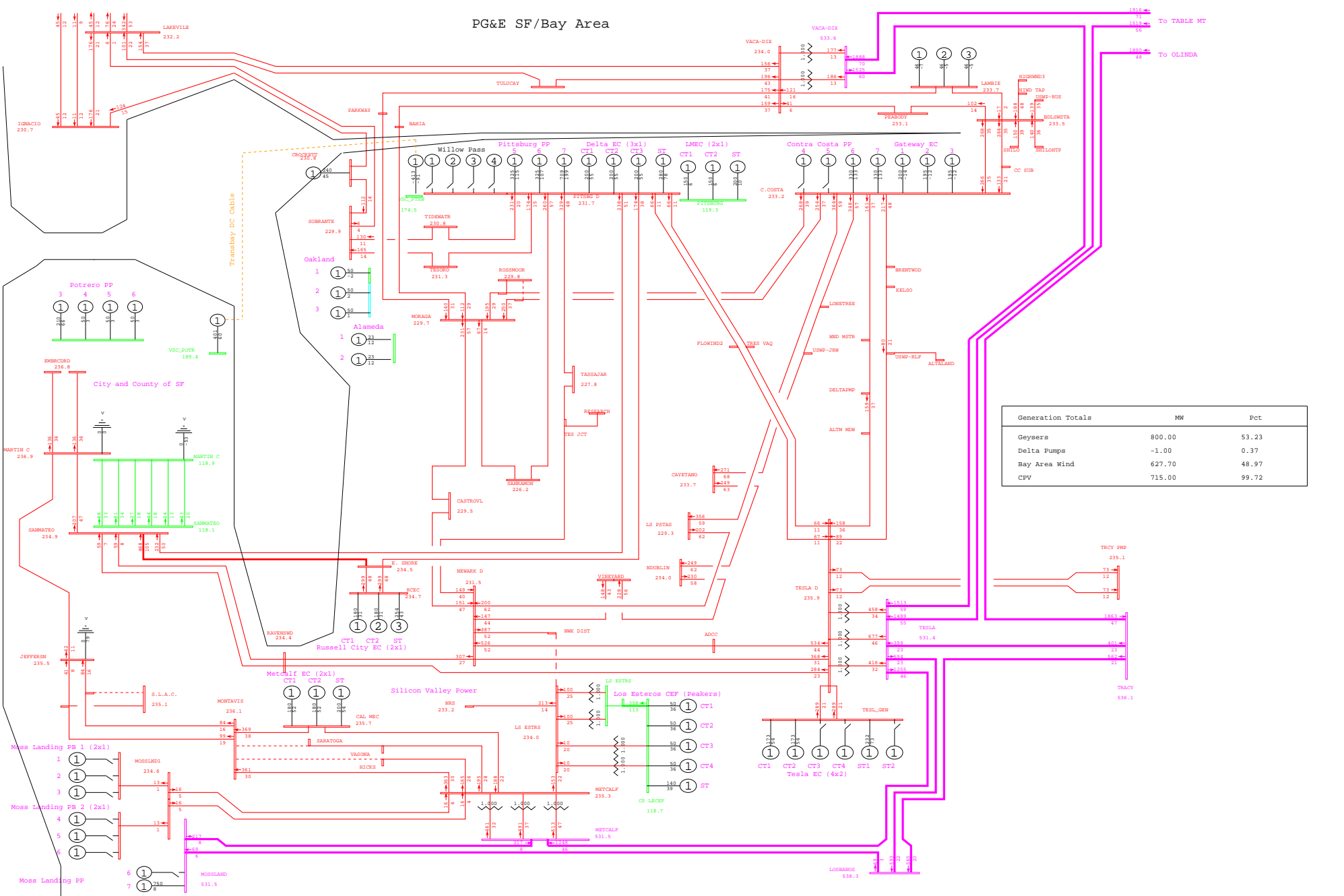
PG&E SF/Bay Area



PG&E SF/Bay Area



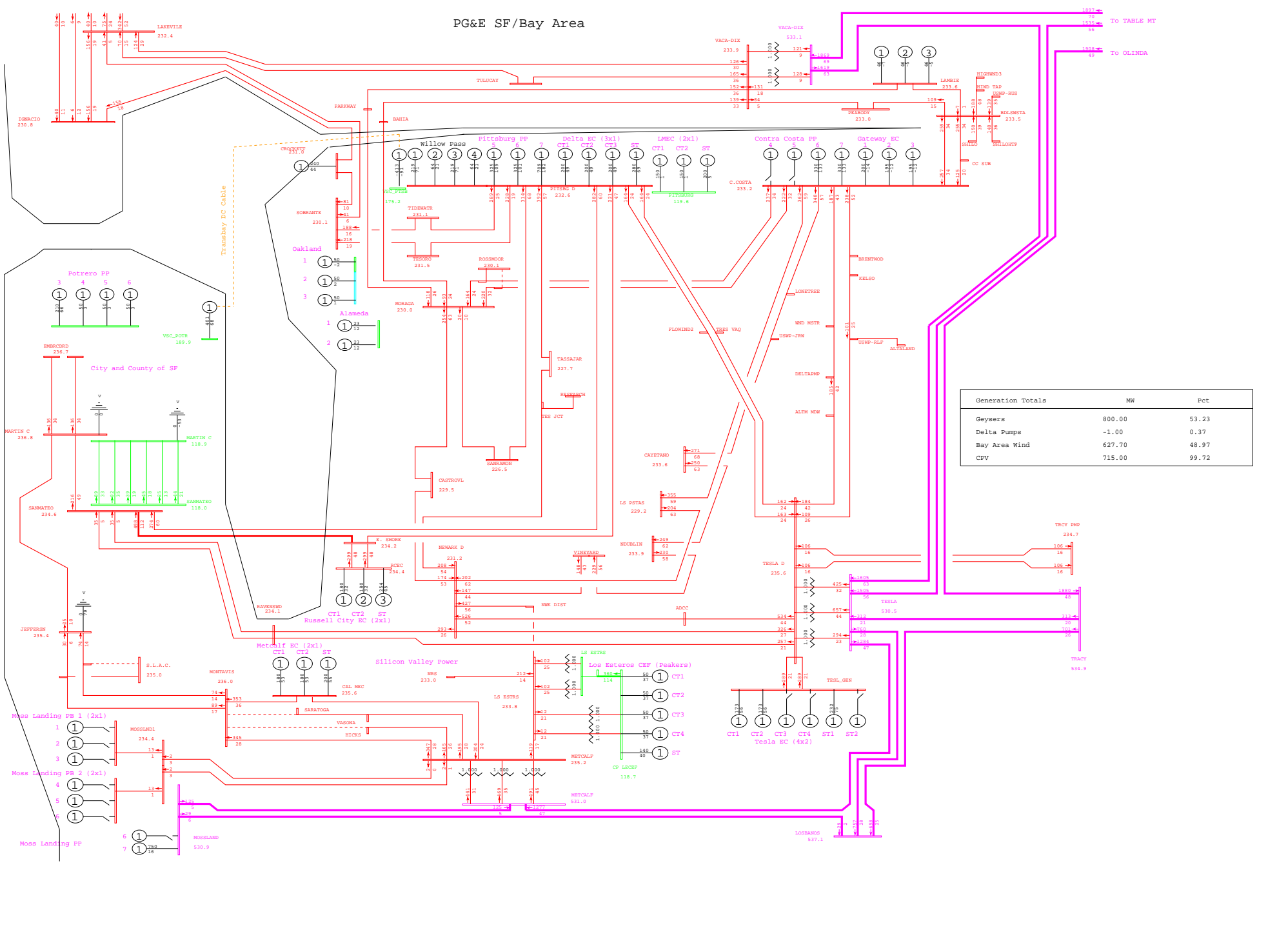
PG&E SF/Bay Area




Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:50:23 2008 wlopssv2-2013mrnt_pst_ptsb-499.sav

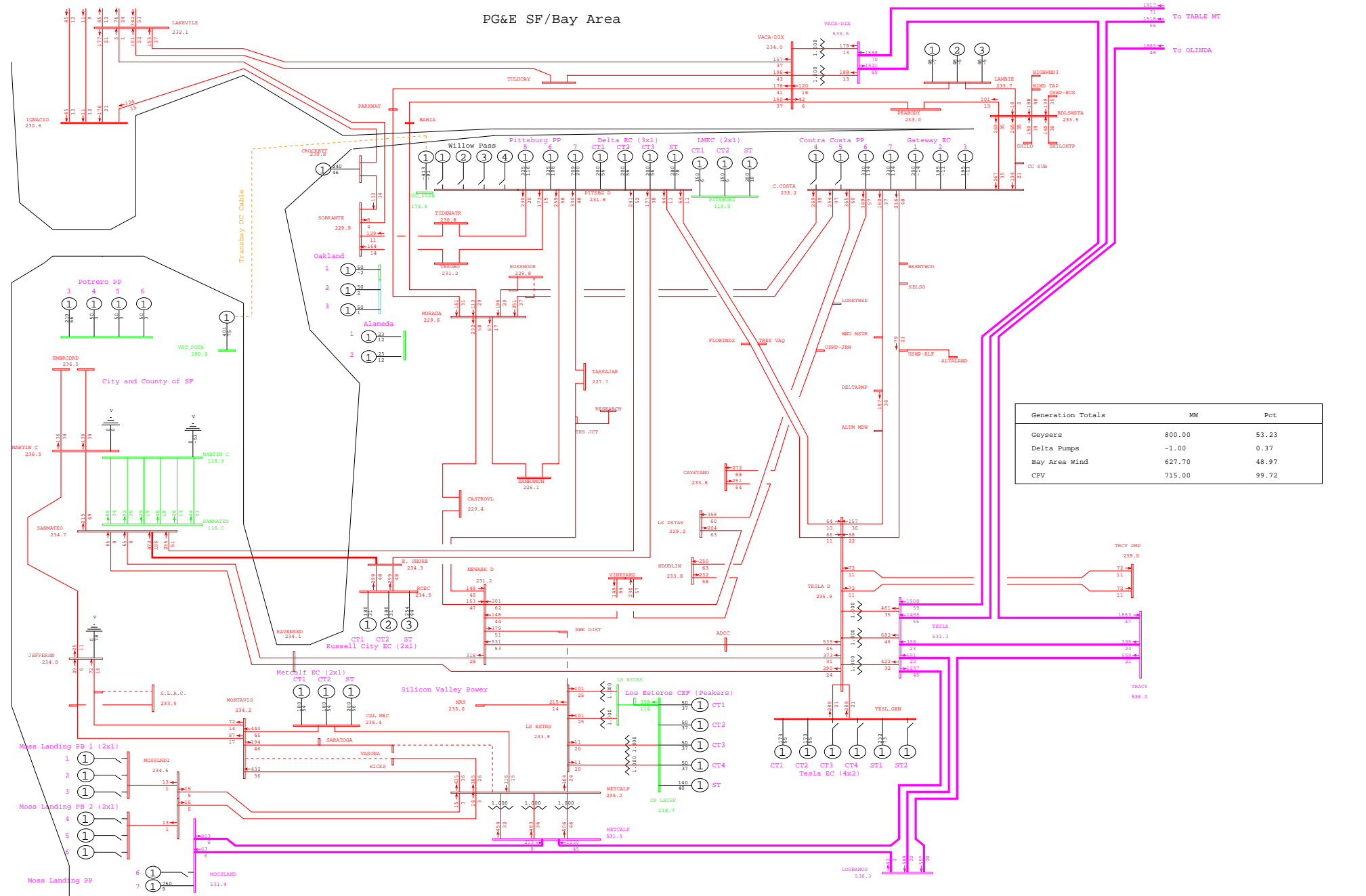


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 MONTAVISTA - SARATOGA & MONTAVISTA - HICKS 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 499

MW/% rate
 bayarea_2013_PGE_v4.0.rtf
 Rating = 2

PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

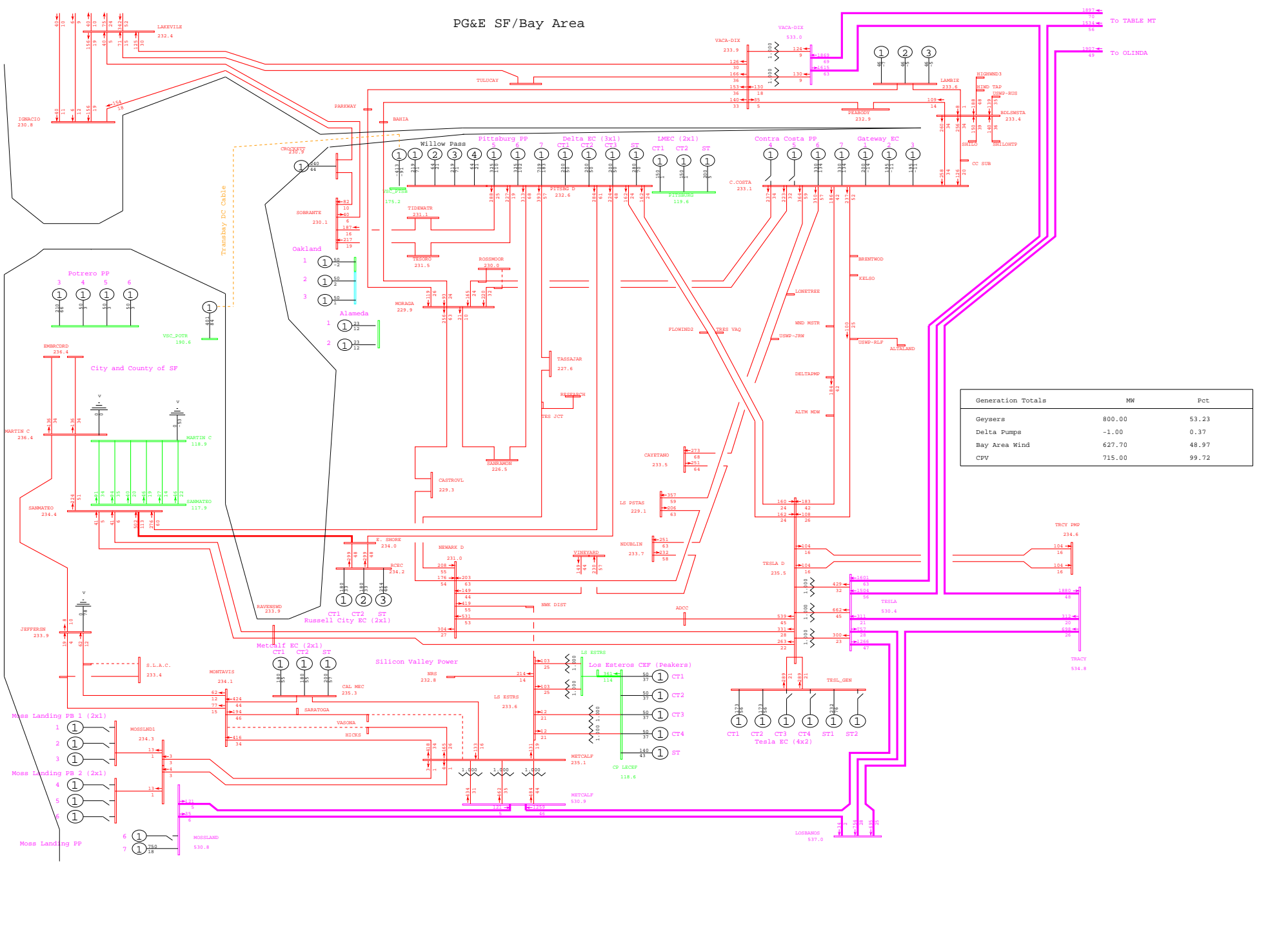


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 VASONA - METCALF & MOTAVISTA - HICKS 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 500

MW/% rate
 bayarea_2013_PGE_v4.drw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:50:24 2008 wlopssv2-2013mrnt_pst_ptsb-500.sav

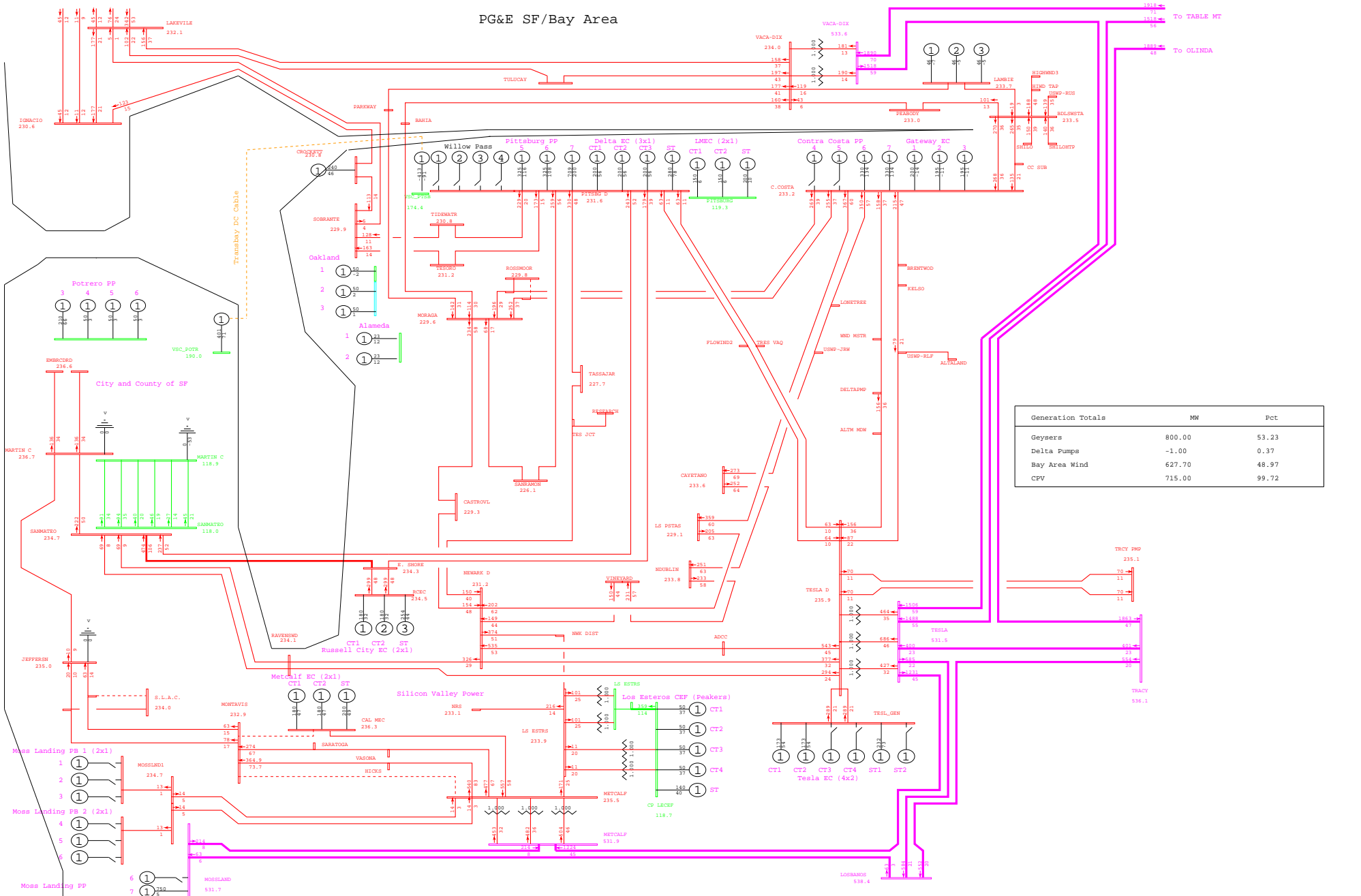


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 VASONA - METCALF & MOTAVISTA - HICKS 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 500

MW/% rate
 bayarea_2013_PGE_v4.0.rtf
 Rating = 2

PG&E SF/Bay Area



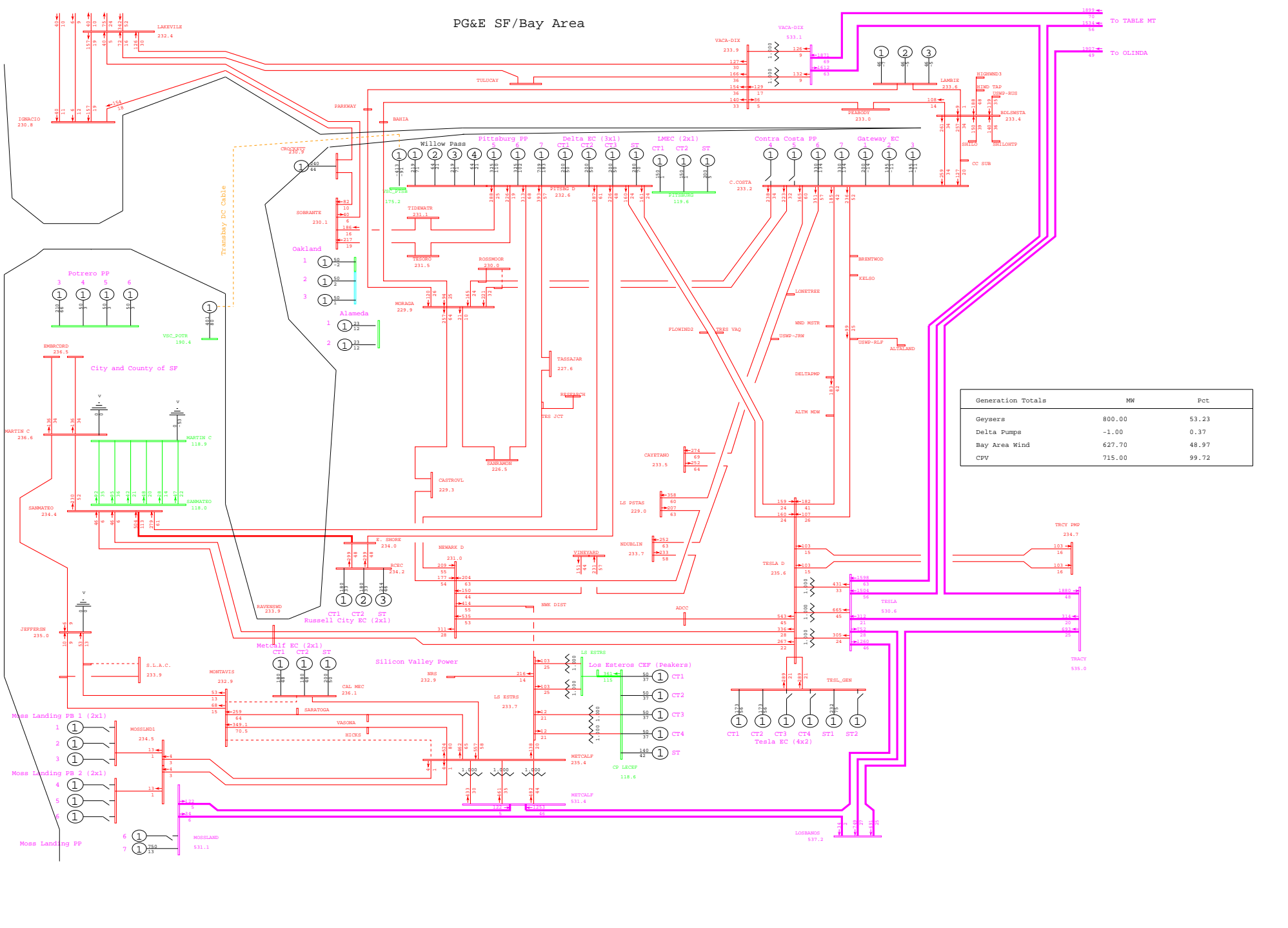
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:32 2008 wlopssv2-2013mrnt_pre_ptsb-501.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 MONTAVIS - METCALF & MONTAVIS - MEC 230kV #3 & #4 LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 501

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:50:25 2008 wlopssv2-2013mrnt_pst_ptsb-501.sav

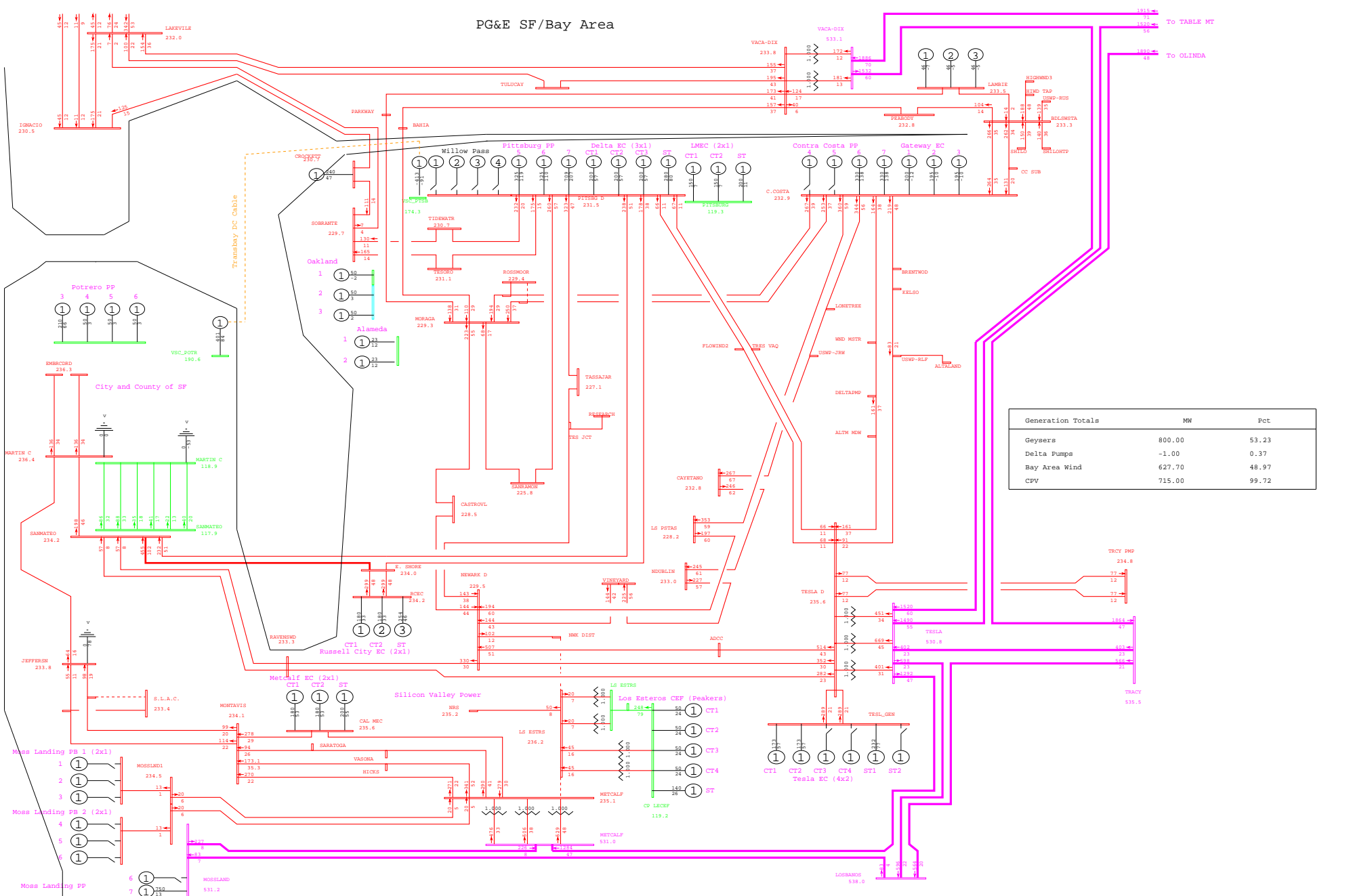


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

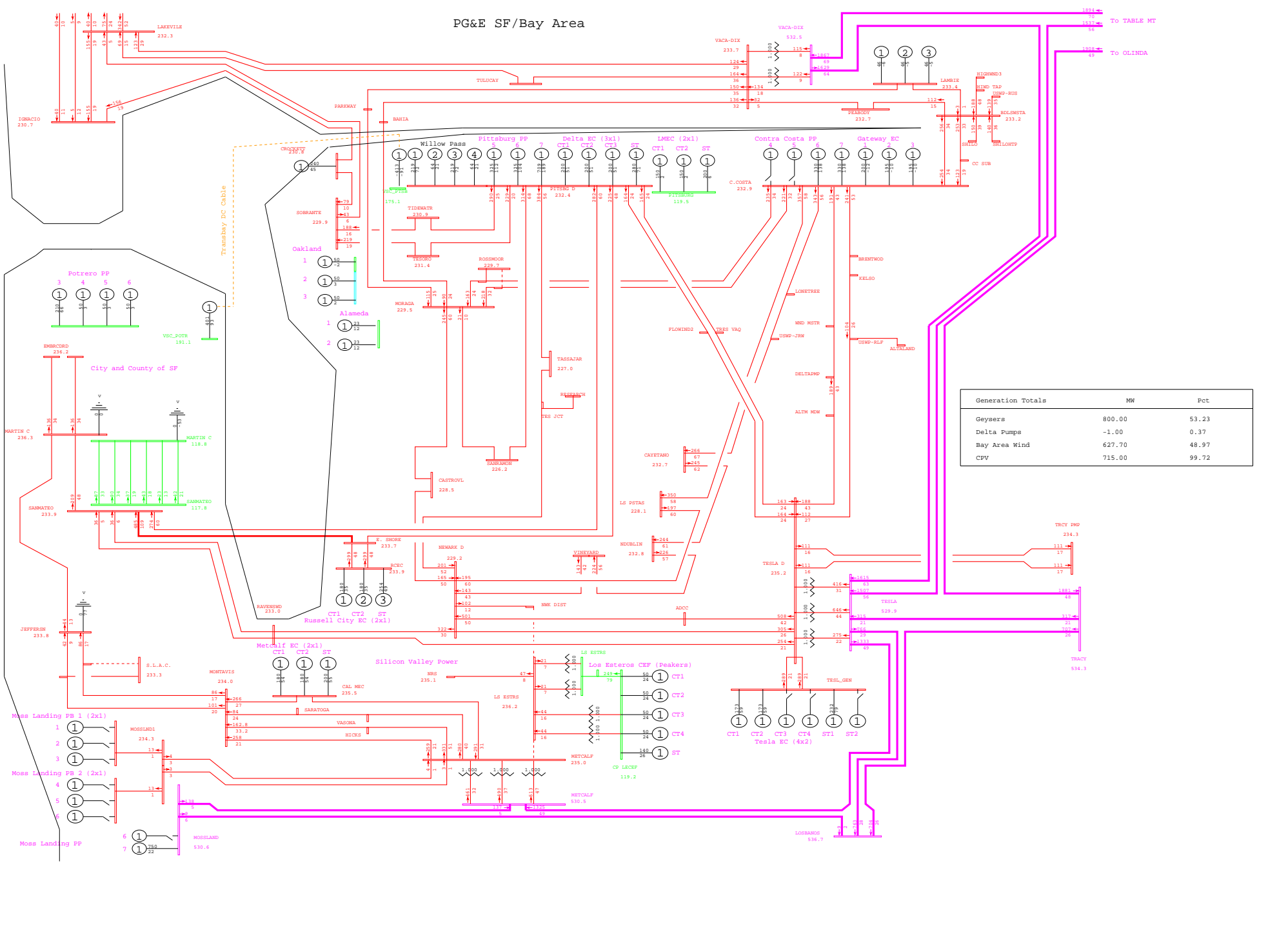
N-2 MONTAVIS - METCALF & MONTAVIS - MEC 230kV #3 & #4 LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 501

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



PG&E SF/Bay Area



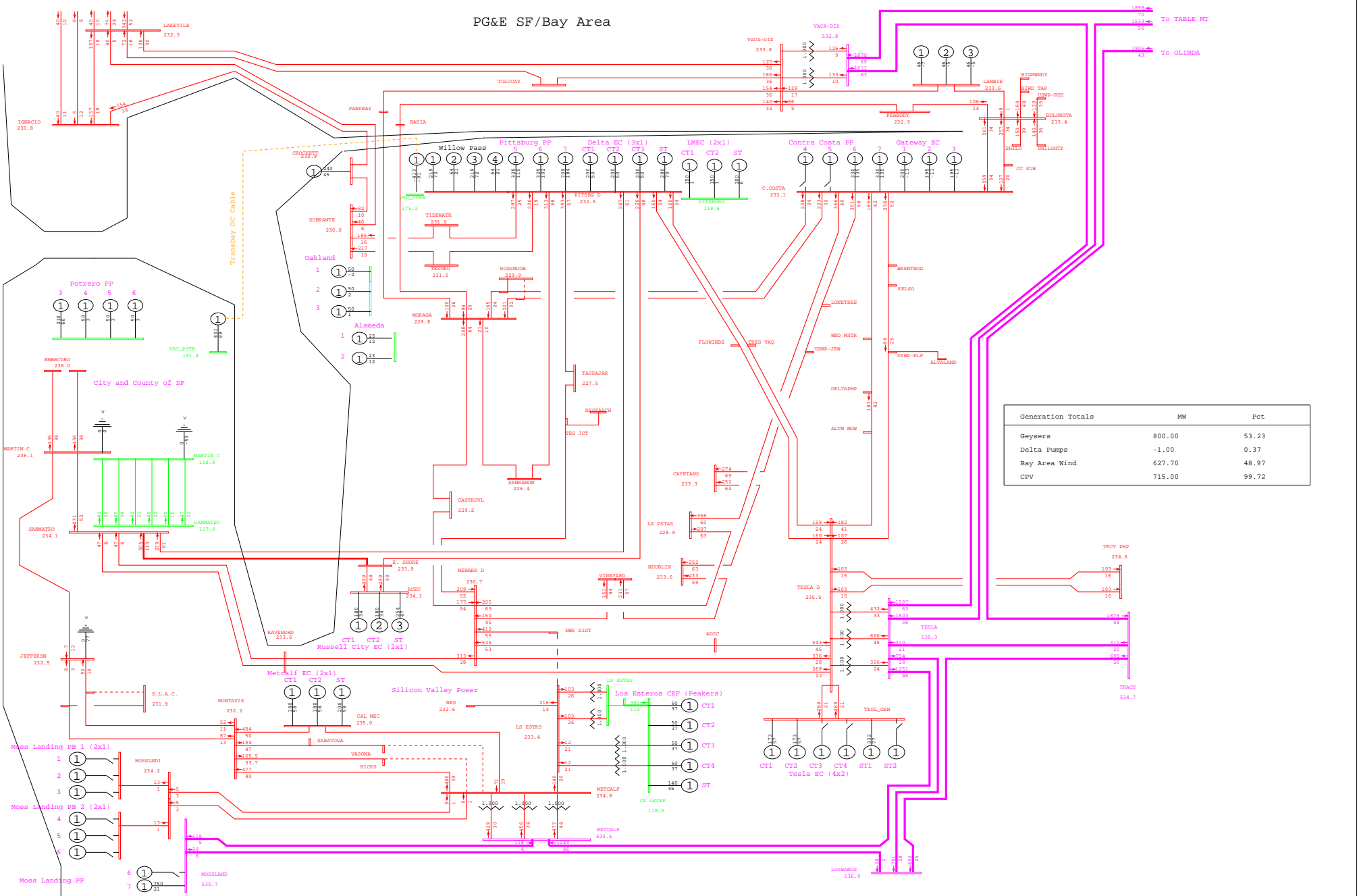
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:26 2008 wlopssv2-2013mrnt_pst_ptsb-502.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 NEWARK - LOS ESTEROS & LOS ESTEROS - METCALF 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 502
 MW/% rate
 bayarea_2013_PGE_v4.cfw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:50:27 2008 wlopssv2-2013mrnt_pst_ptsb-503.sav

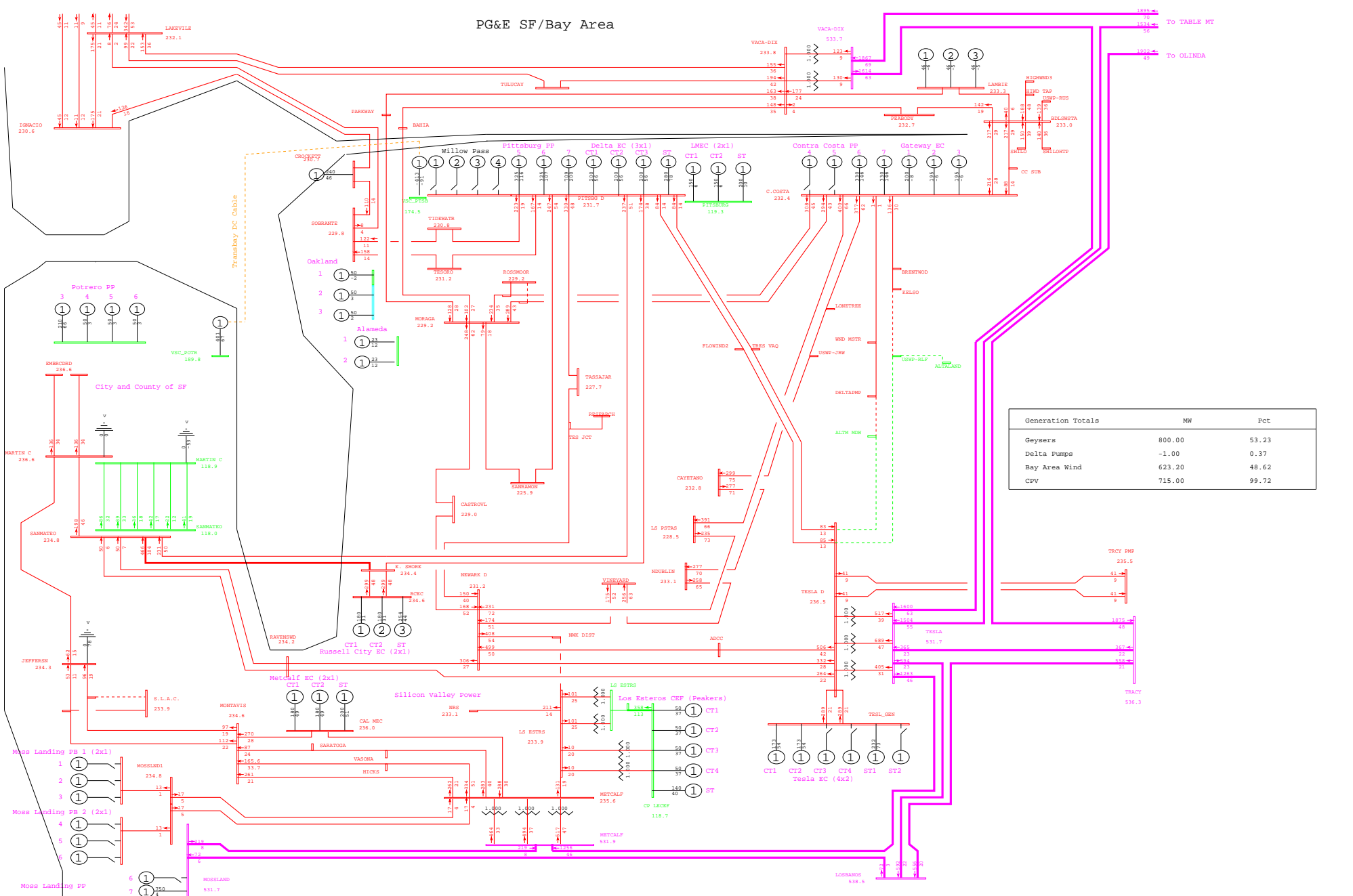


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 METCALF - HICKS & METCALF - VASONA 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 503

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:53:35 2008 wlopssv2-2013mrnt_pre_ptsb-505.sav

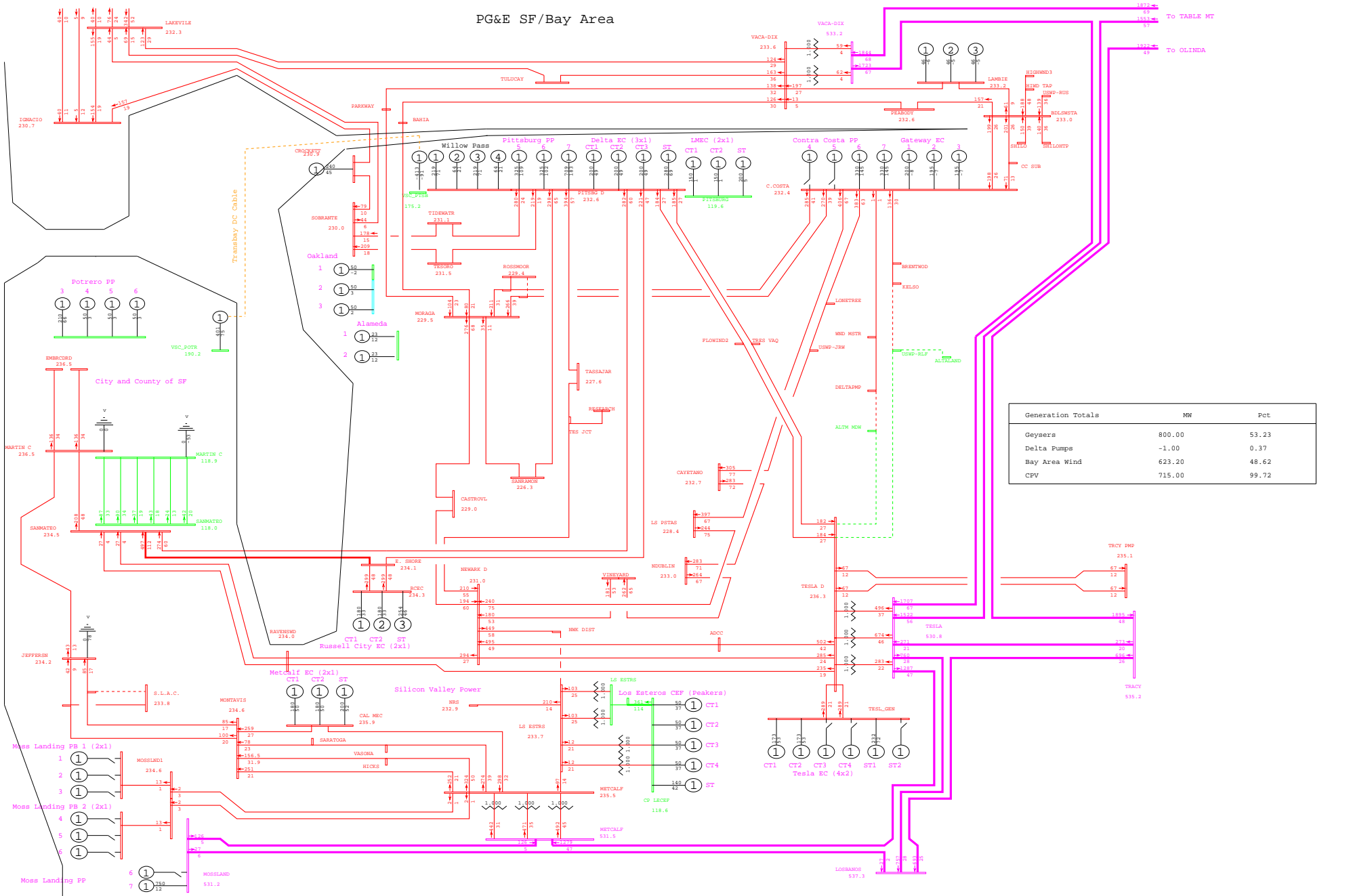


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 TESLA - KELSO&TESLA - DELTAPUMP 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 505

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



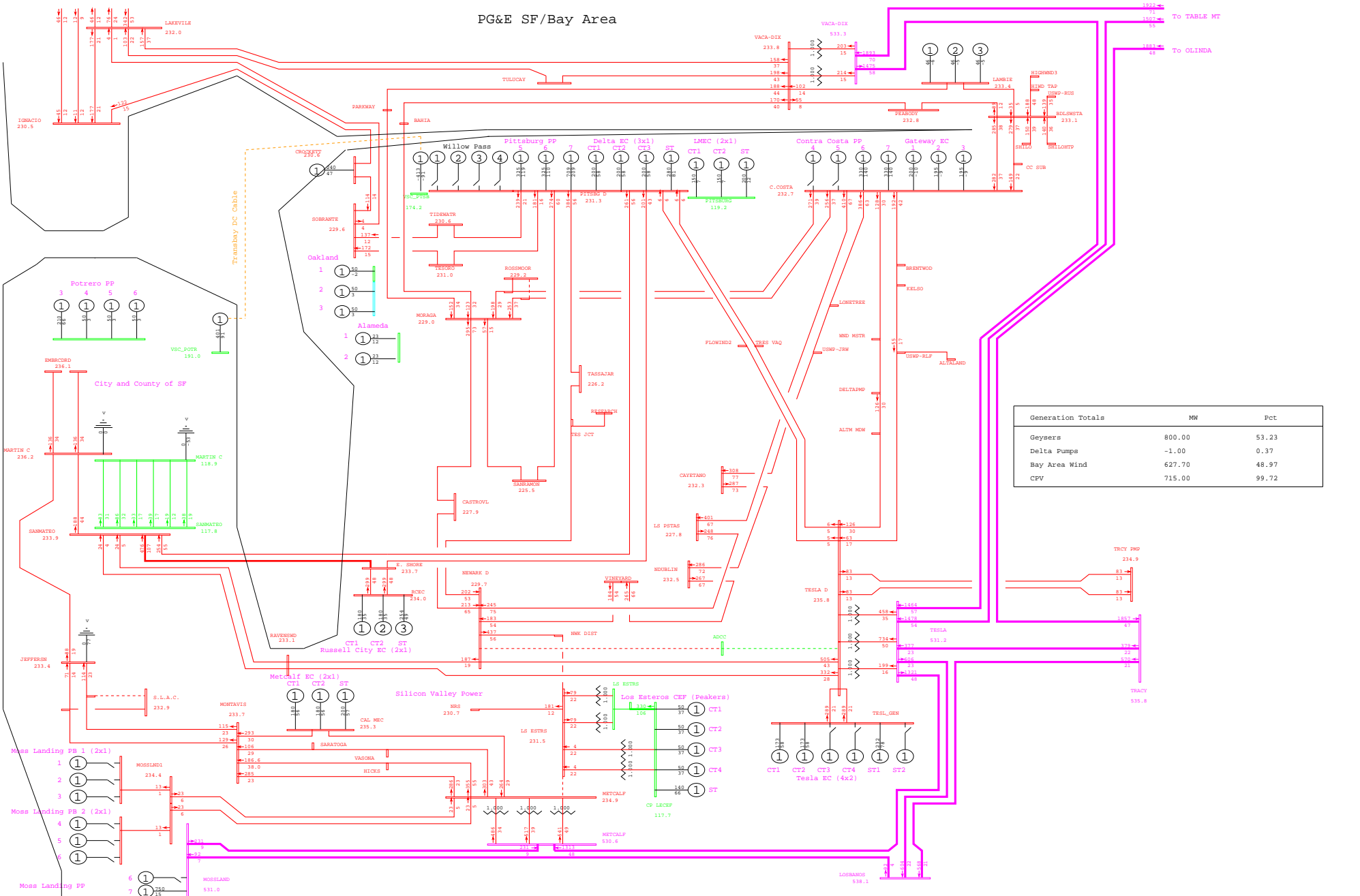
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:29 2008 wlopssv2-2013mrnt_pst_ptsb-505.sav



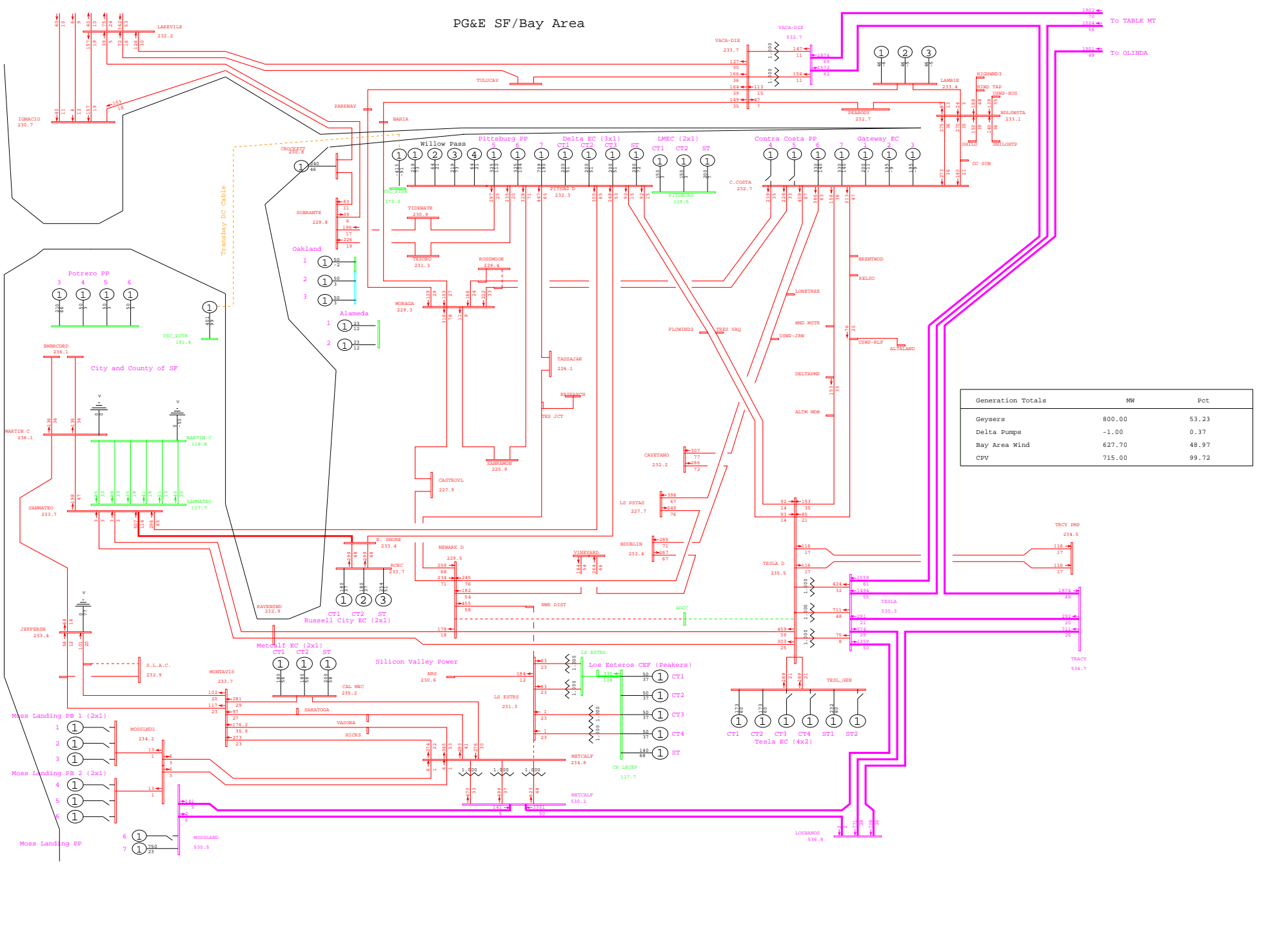
PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 TESLA - KELSO&TESLA - DELTAPUMP 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 505
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2


PG&E SF/Bay Area



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:50:30 2008 wlopssv2-2013mrnt_pst_ptsb-506.sav

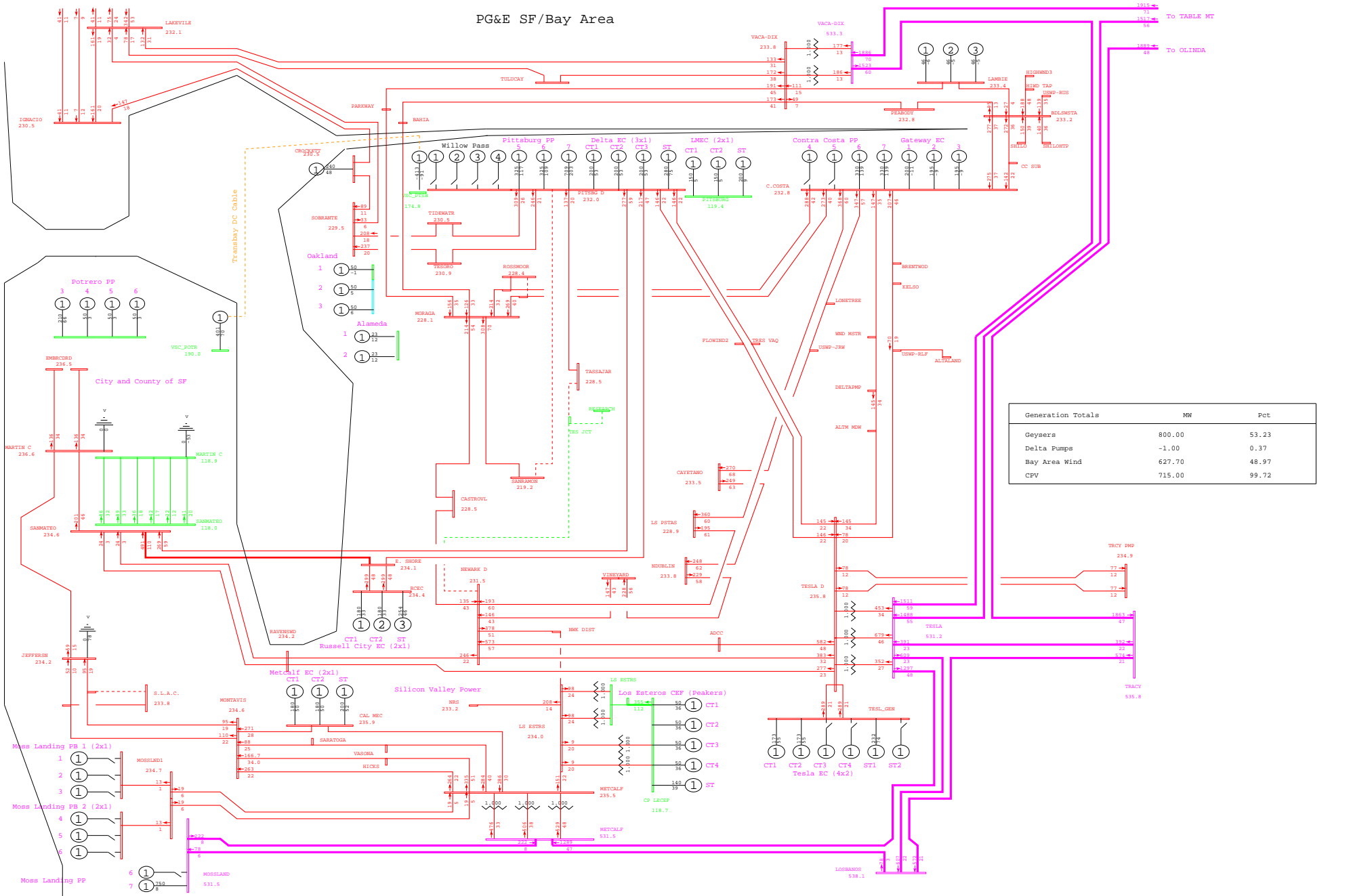


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 LOS ESTEROS - METCALF & TESLA - NEWARK 230kV #2 LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 506

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area

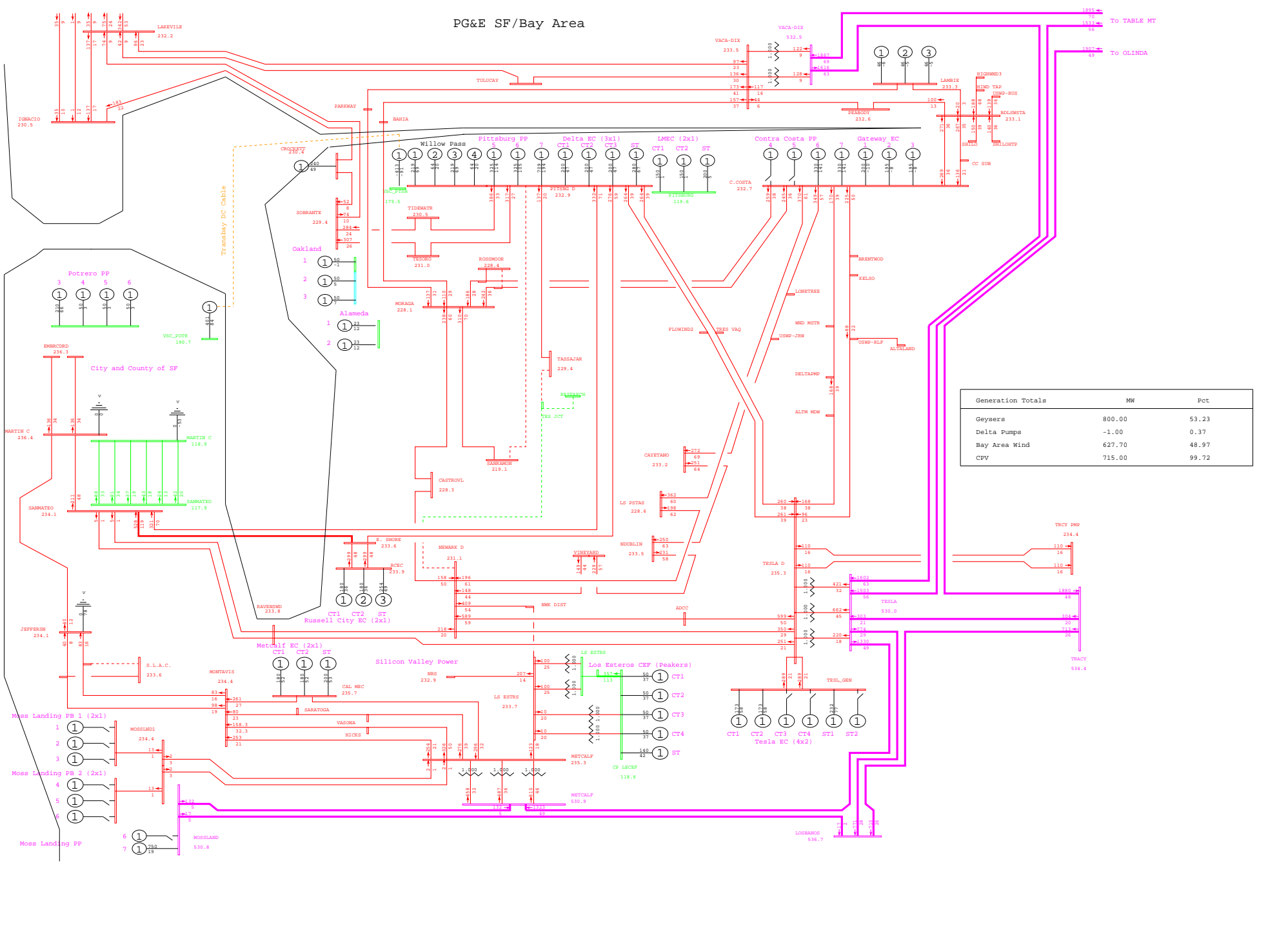


General Electric International, Inc. PSLF Program Fri Sep 26 20:53:37 2008 wlopssv2-2013mrnt_pre_ptsb-507.sav



 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 PITTSBURG - SANRAMON&TASSAJAR - NEWARK 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 507
 MW/% rate
 bayarea_2013_PGE_v4.0.rtf
 Rating = 2

PG&E SF/Bay Area

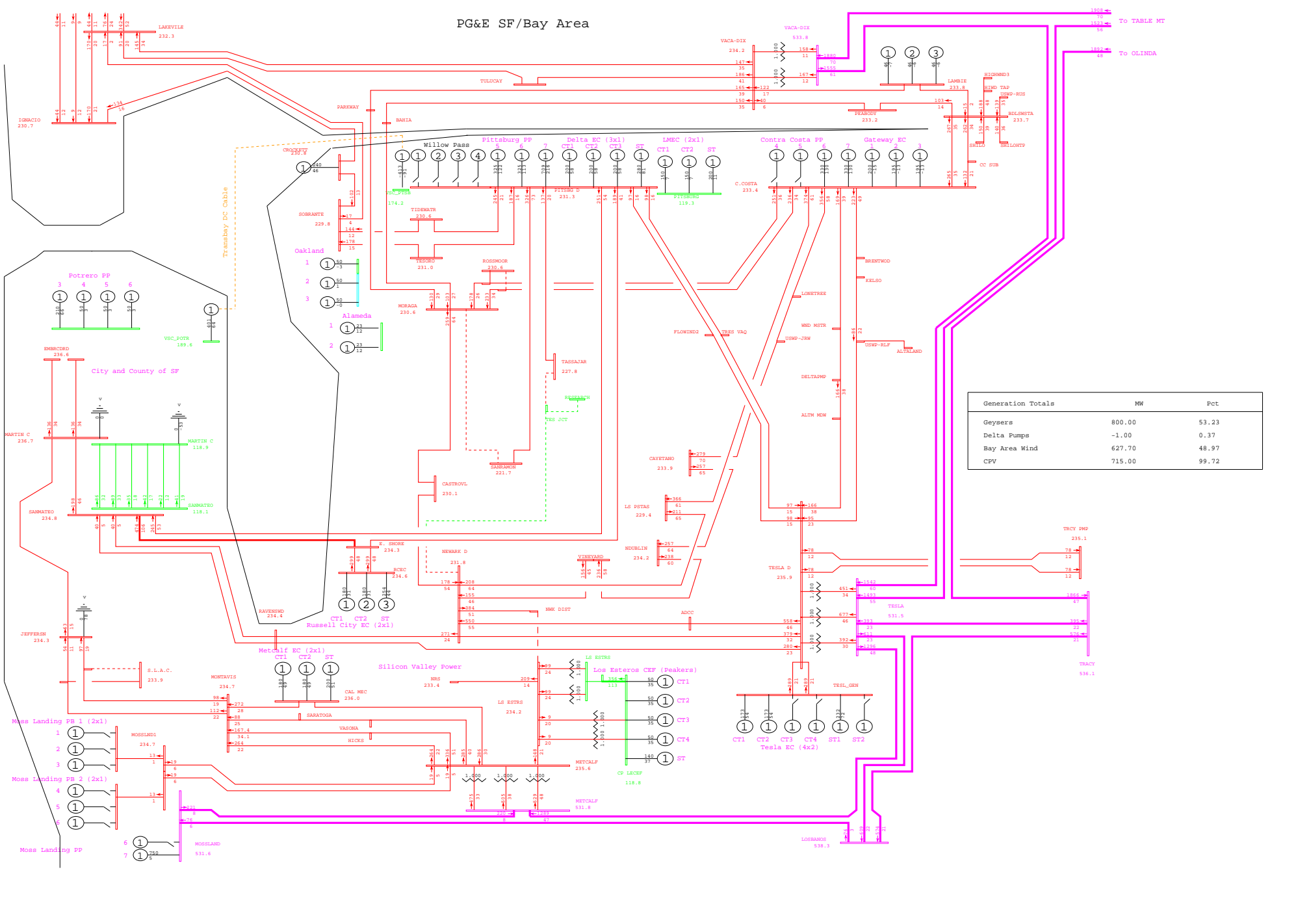


General Electric International, Inc. PSLF Program Fri Sep 26 20:50:31 2008 wlopssv2-2013mrnt_pst_ptsb-507.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 PITTSBURG - SANRAMON&TASSAJAR - NEWARK 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 507
 MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



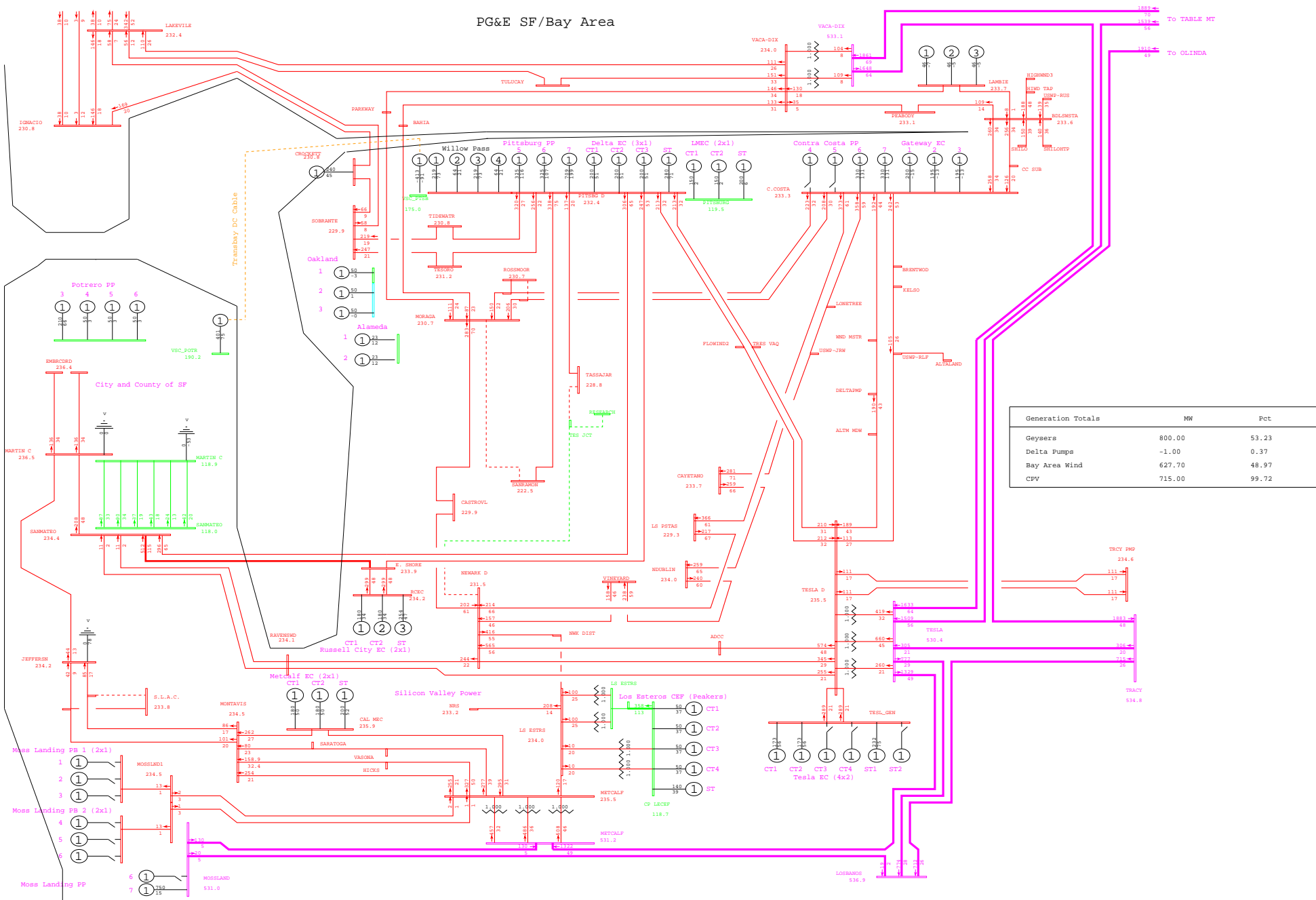
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:38 2008 wlopssv2-2013mrnt_pre_ptsb-508.sav

PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 MORAGA - SANRAMON&TASSAJAR - NEWARK 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 508

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

General Electric International, Inc. PSLF Program Fri Sep 26 20:50:32 2008 wlopssv2-2013mrnt_pst_ptsb-508.sav

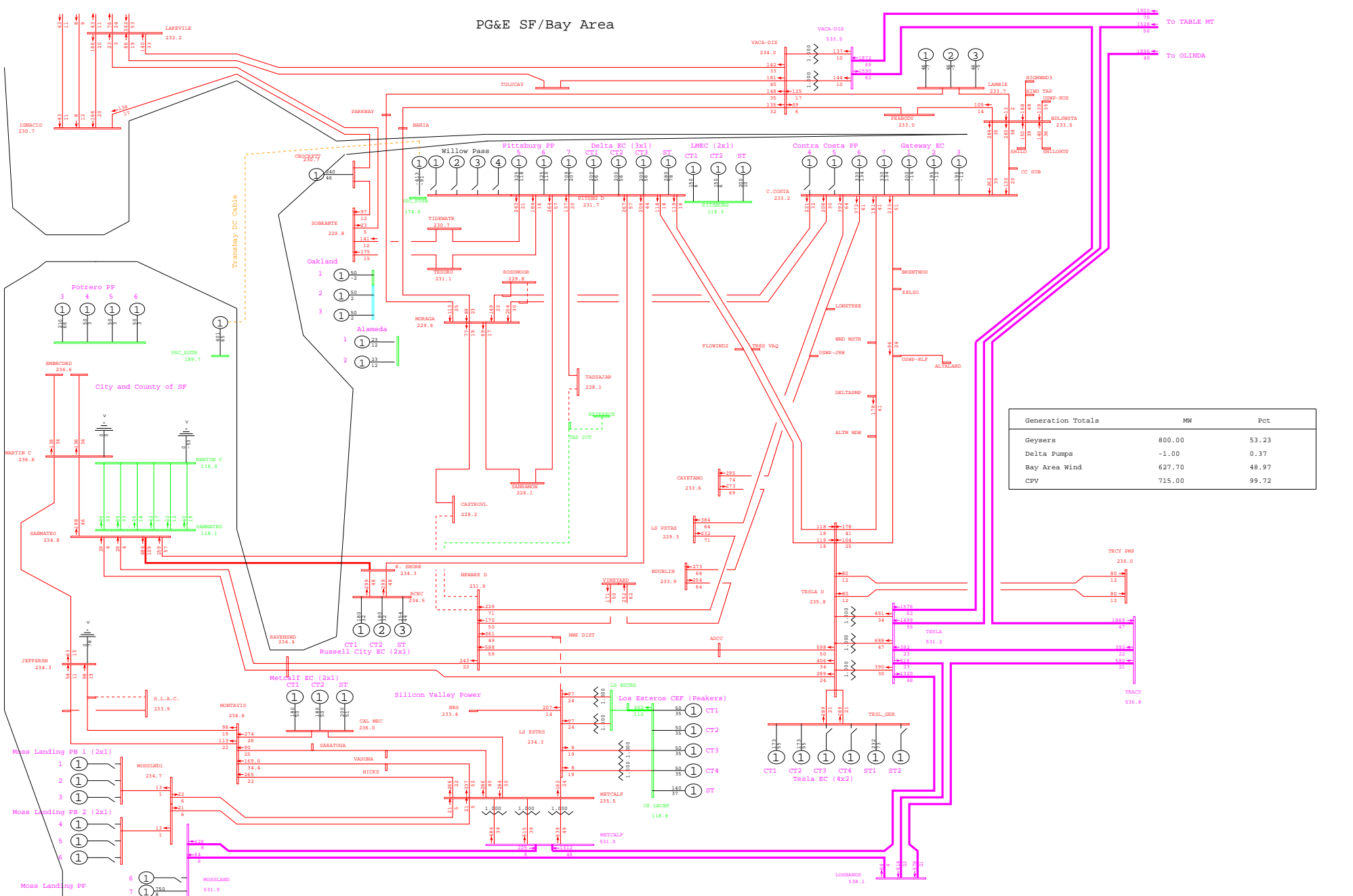


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 MORAGA - SANRAMON&TASSAJAR - NEWARK 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 508

MW/% rate
 bayarea_2013_PGE_v4.cfw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:53:38 2008 wlopssv2-2013mrnt_pre_ptsb-509.sav

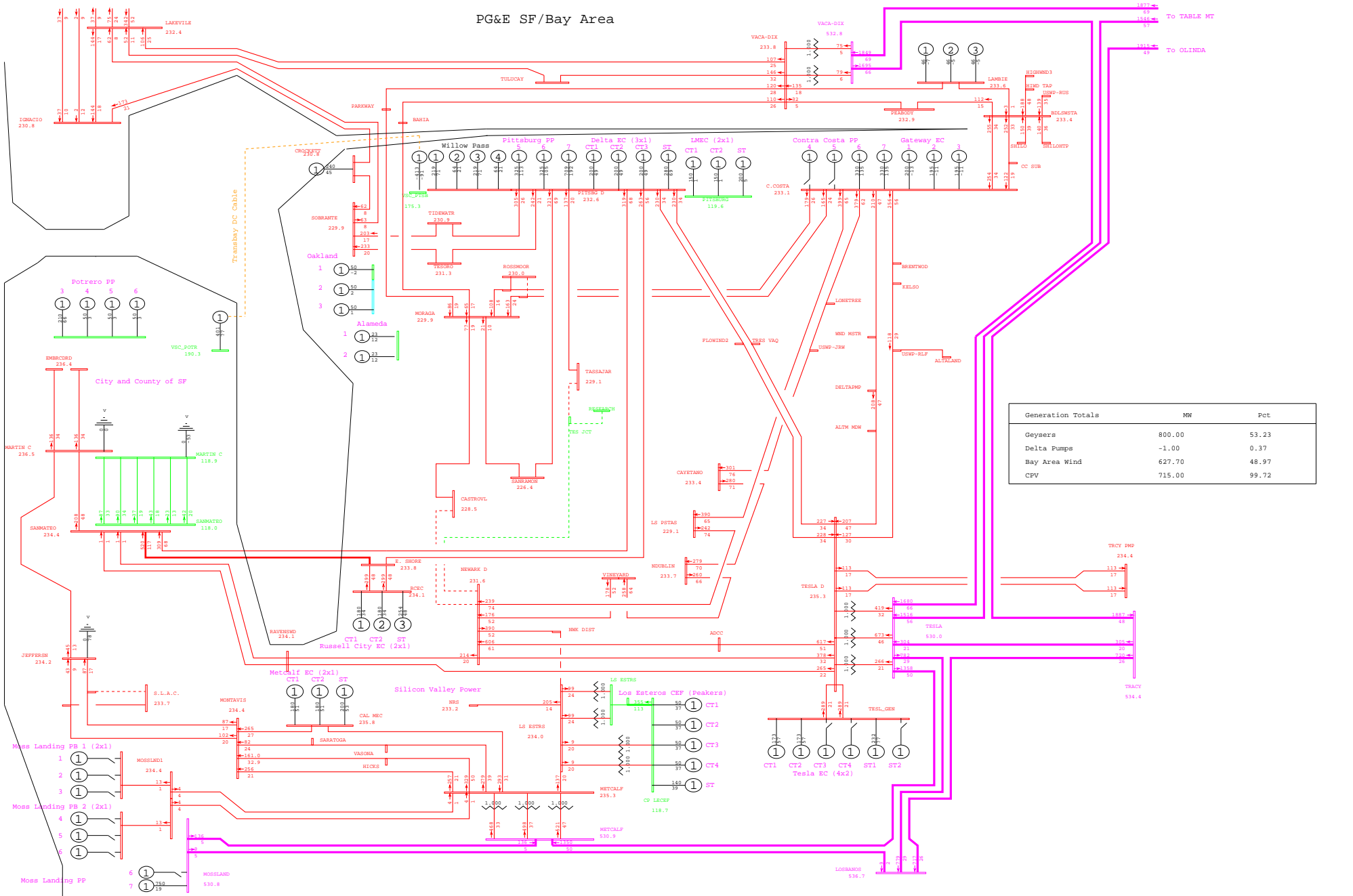


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 CASTROVL - NEWARK&TASSAJAR - NEWARK 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 509

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



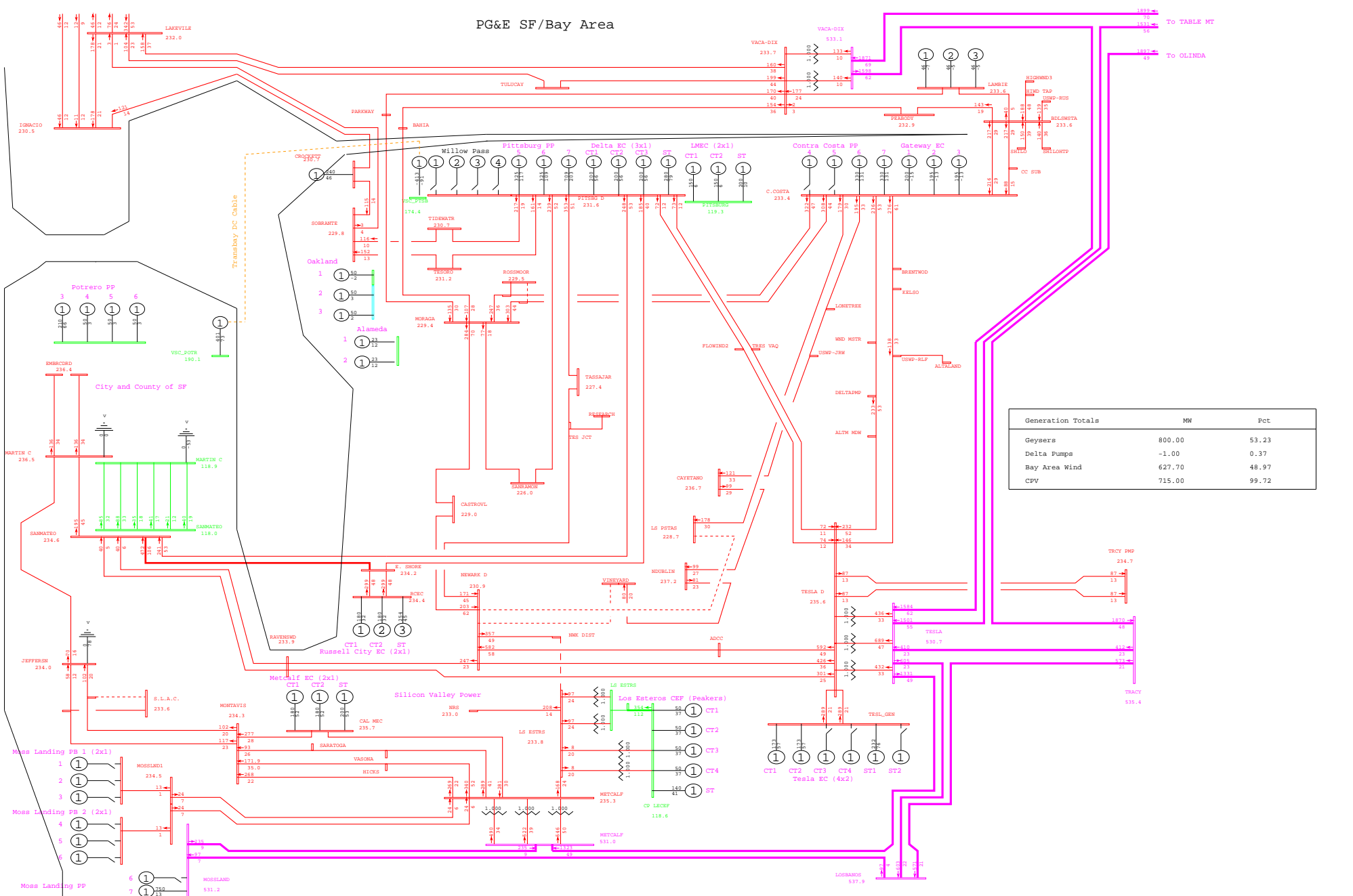
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:33 2008 wlopssv2-2013mrnt_pst_ptsb-509.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

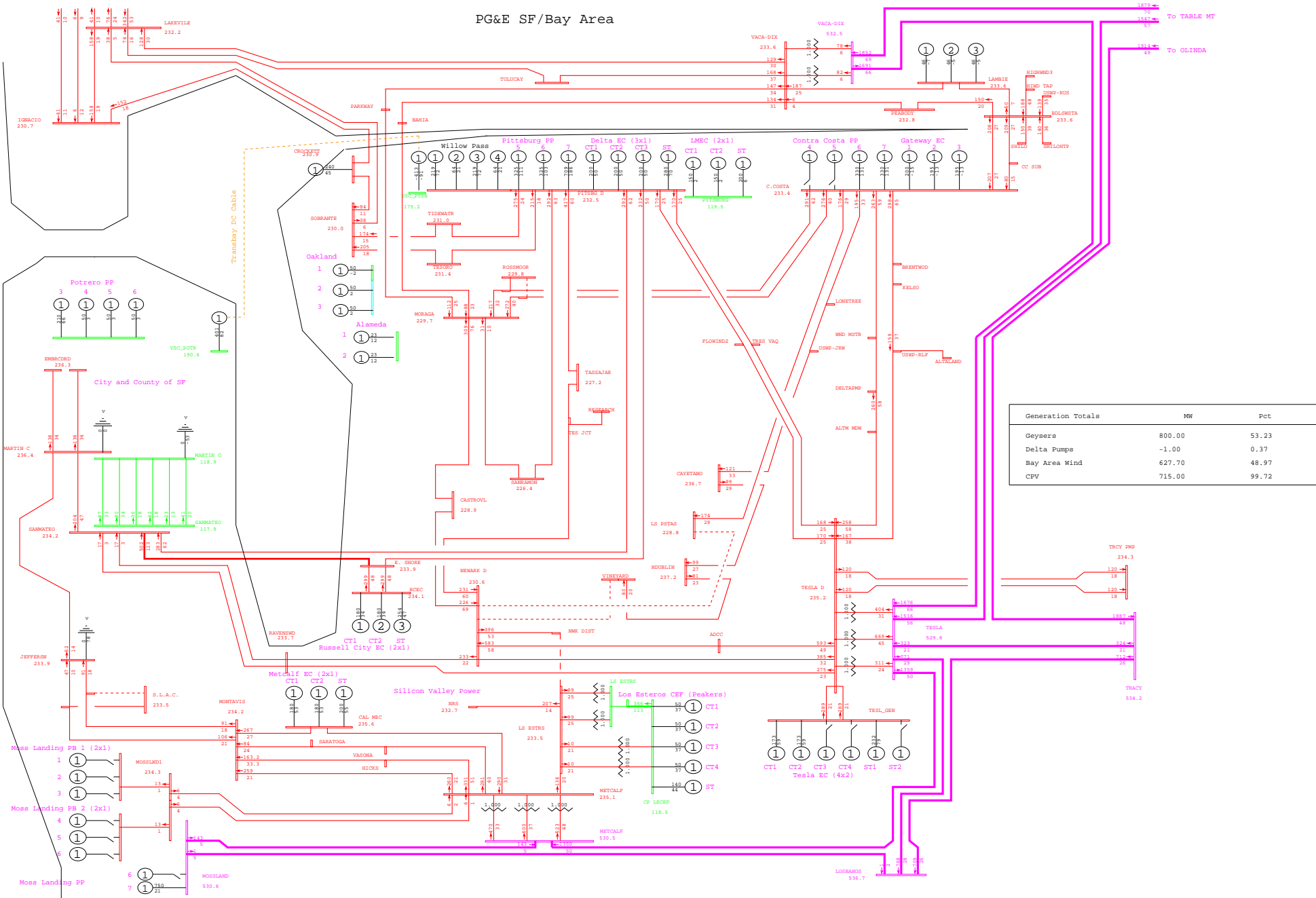
N-2 CASTROVL - NEWARK&TASSAJAR - NEWARK 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 509

MW/% rate
 bayarea_2013_PGE_v4.0.rtf
 Rating = 2

PG&E SF/Bay Area



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:50:34 2008 wlopssv2-2013mrnt_pst_ptsb-510.sav

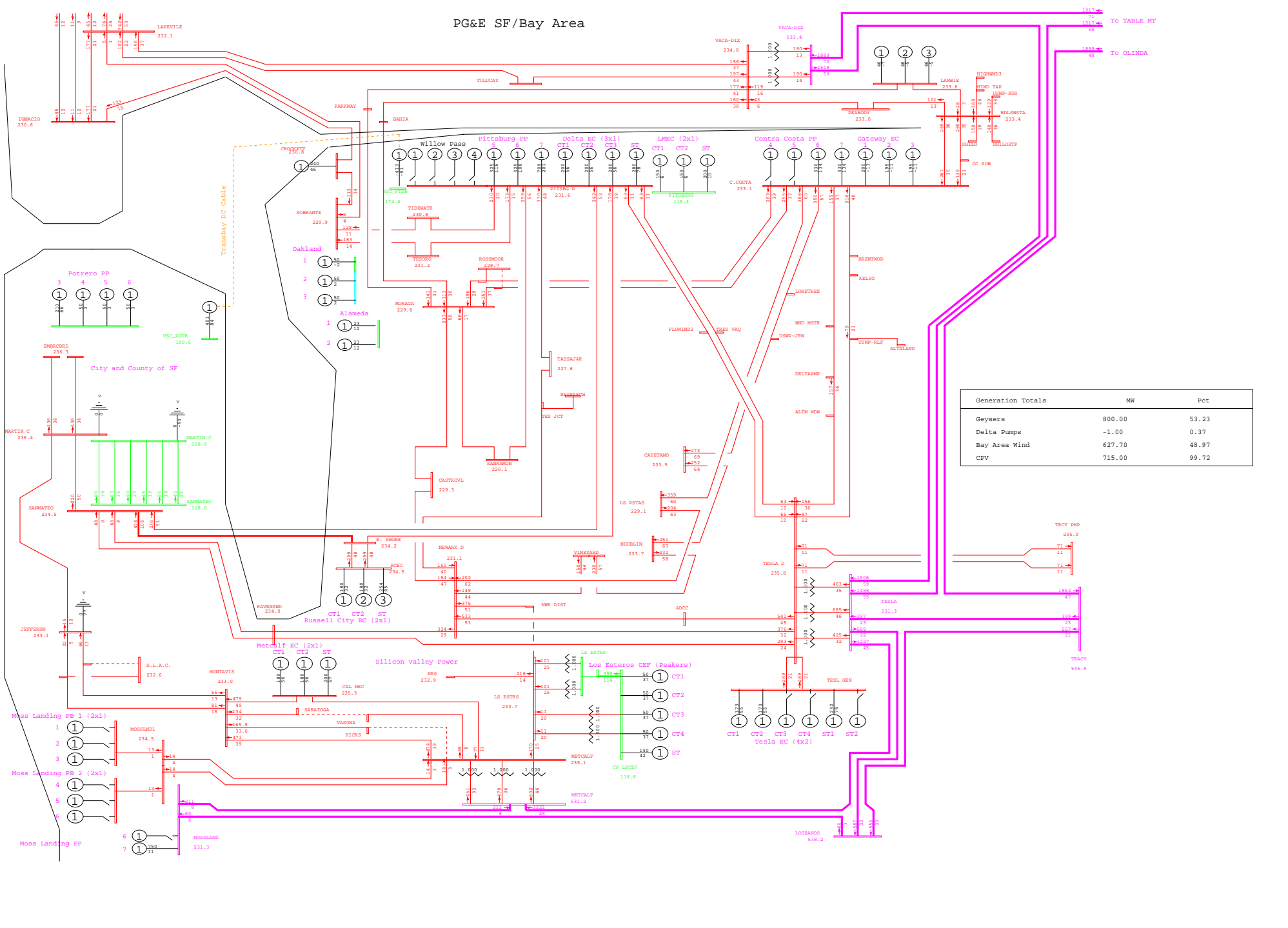


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

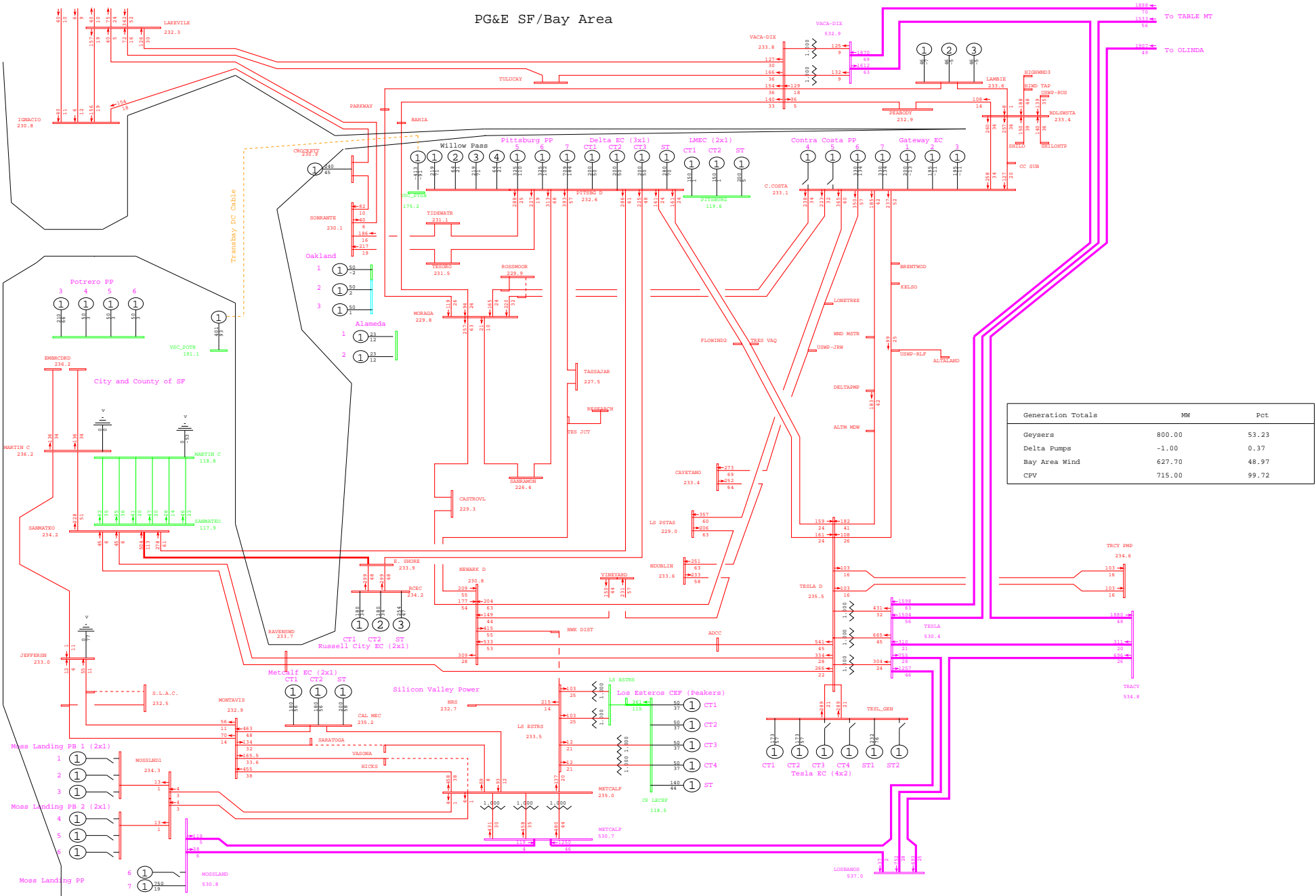
N-2 LS PSTAS - NEWARK&VINEYARD - NEWARK 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 510

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:50:35 2008 wlopssv2-2013mrnt_pst_ptsb-511.sav

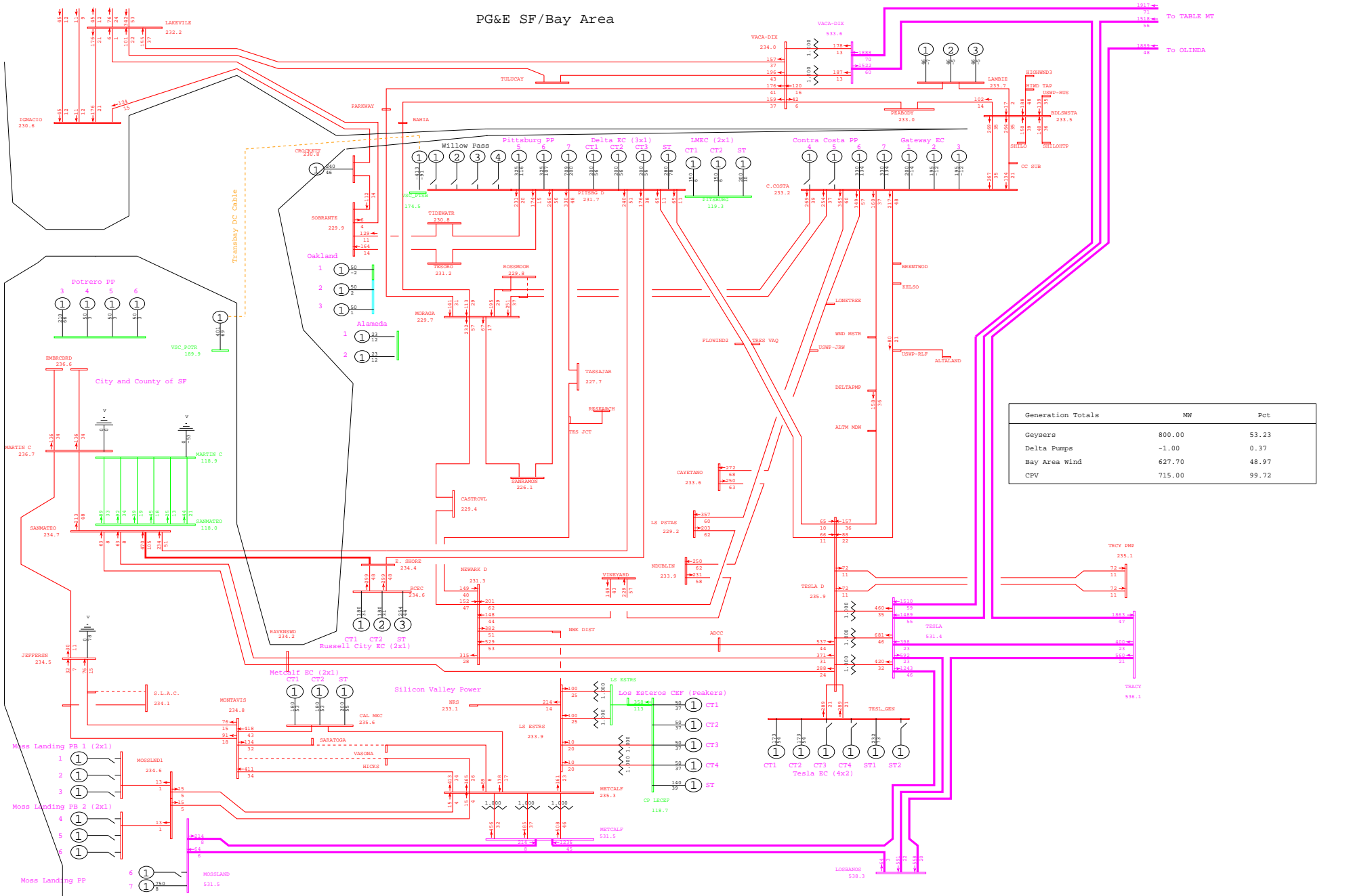


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 HICKS - METCALF & SARATOGA - VASONA 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 511

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



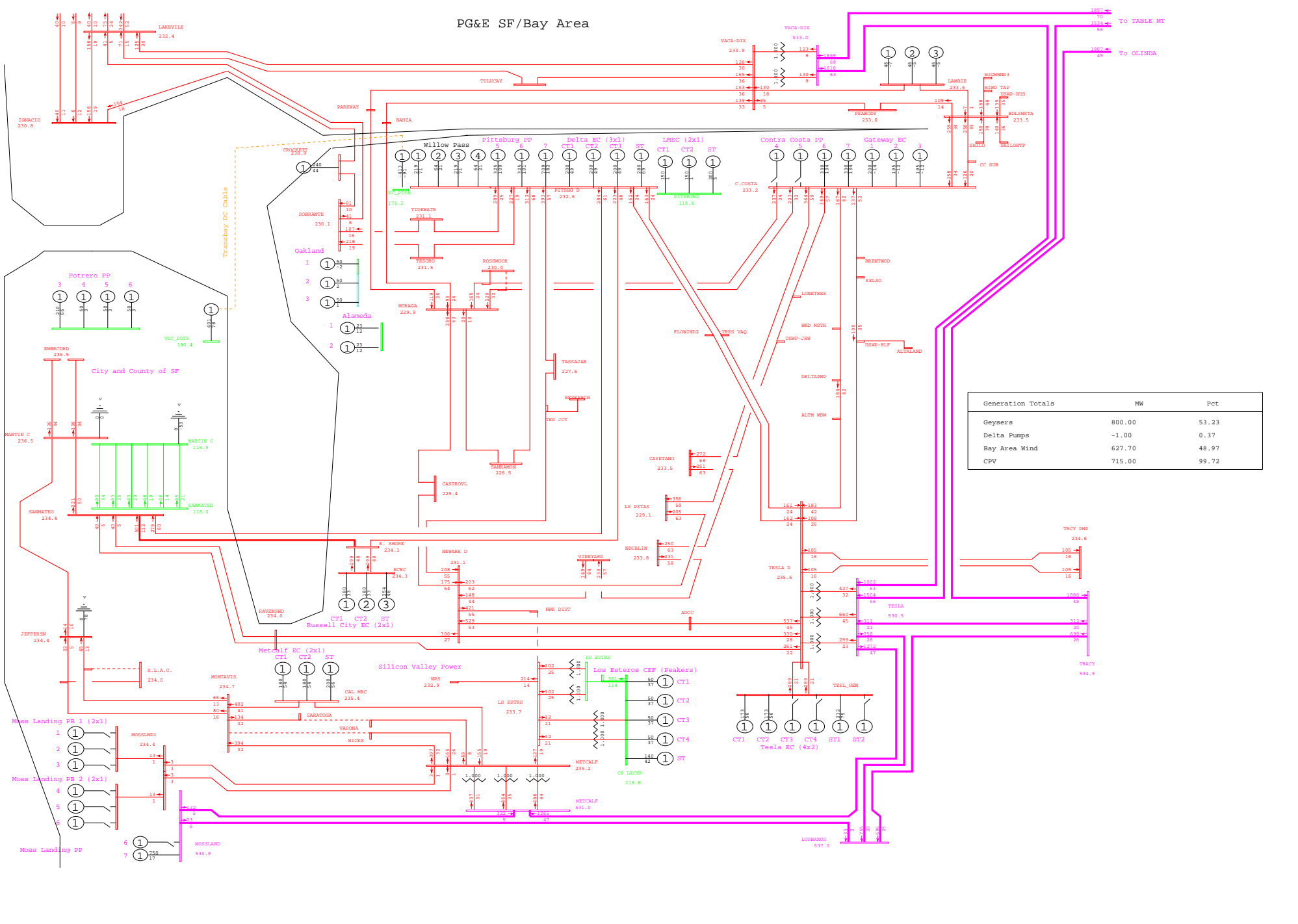
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:41 2008 wlopssv2-2013mrnt_pre_ptsb-512.sav




PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 HICKS - MOTAVISTA & VASONA - SARATOGA 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 512
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area

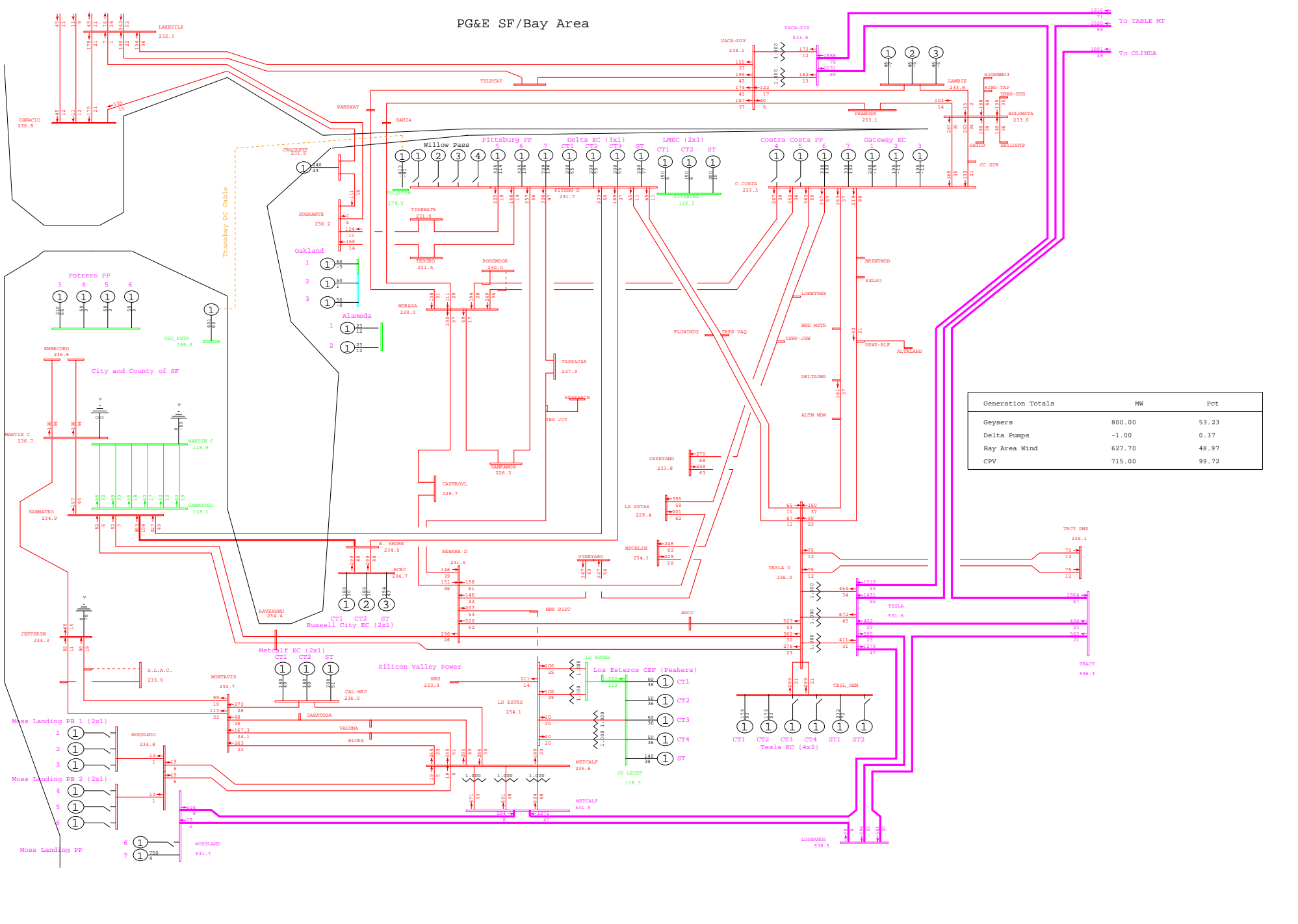


General Electric International, Inc. PSLF Program Fri Sep 26 20:50:37 2008 wlopssv2-2013mrnt_pst_ptsb-512.sav



 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 HICKS - MOTAVISTA & VASONA - SARATOGA 230kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 512
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



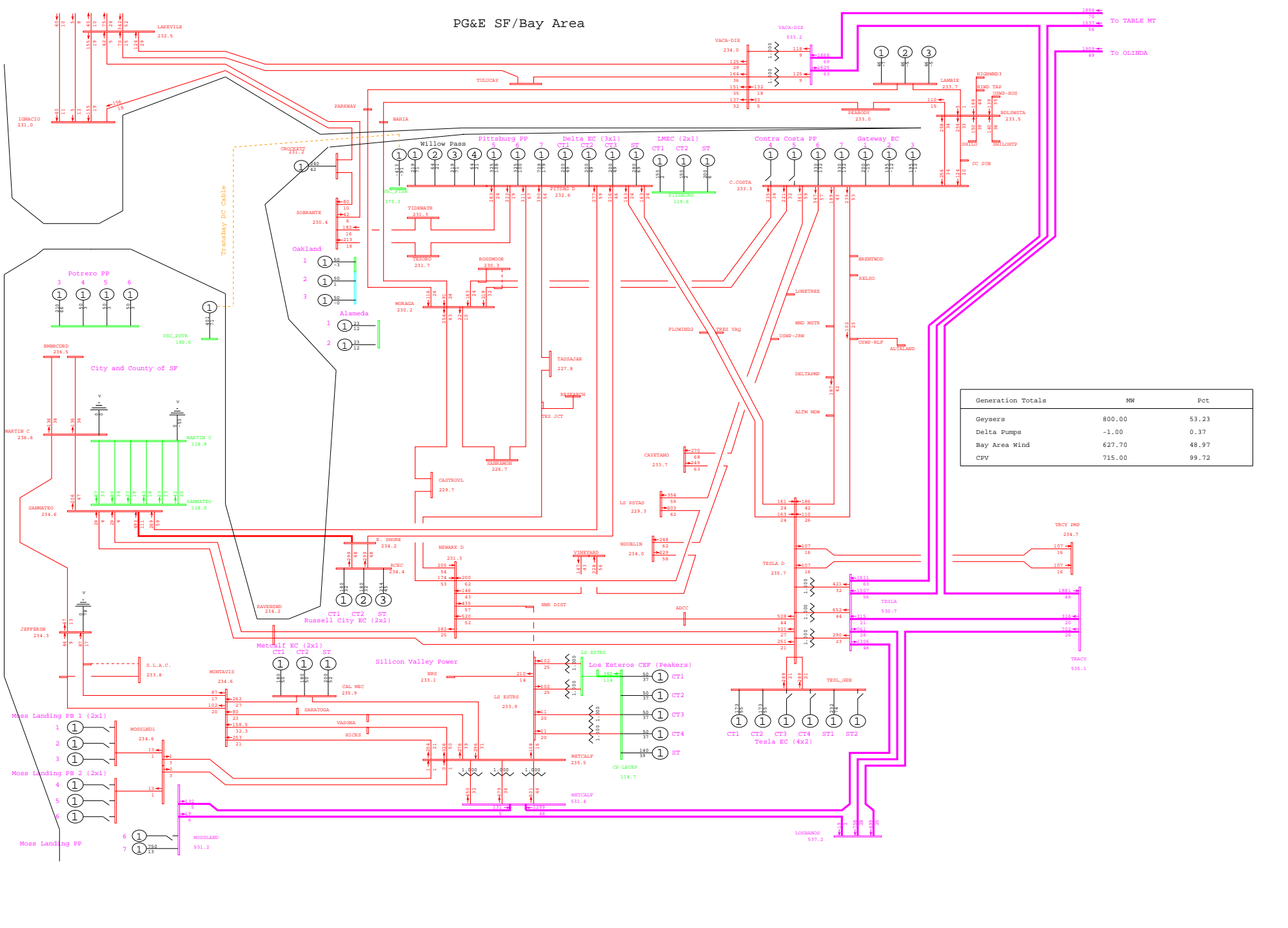
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:42 2008 wlopssv2-2013mrnt_pre_ptsb-514.sav

 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 El CERETO - SOBRANTE 115kV #1 & #2 LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 514

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:50:38 2008 wlopssv2-2013mrnt_pst_ptsb-514.sav

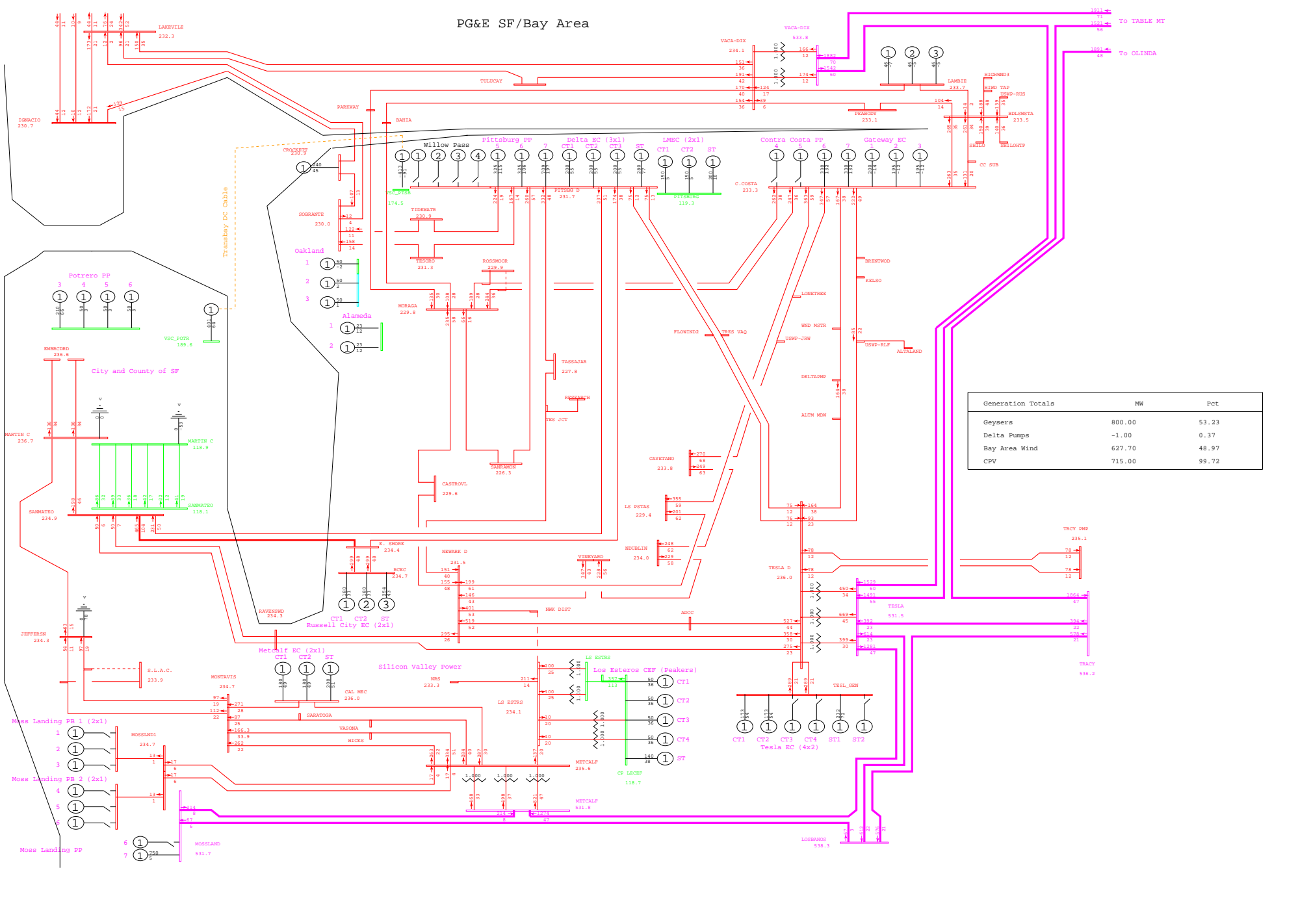


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 El CERETO - SOBRANTE 115kV #1 & #2 LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 514

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:53:43 2008 wlopssv2-2013mrnt_pre_ptsb-515.sav

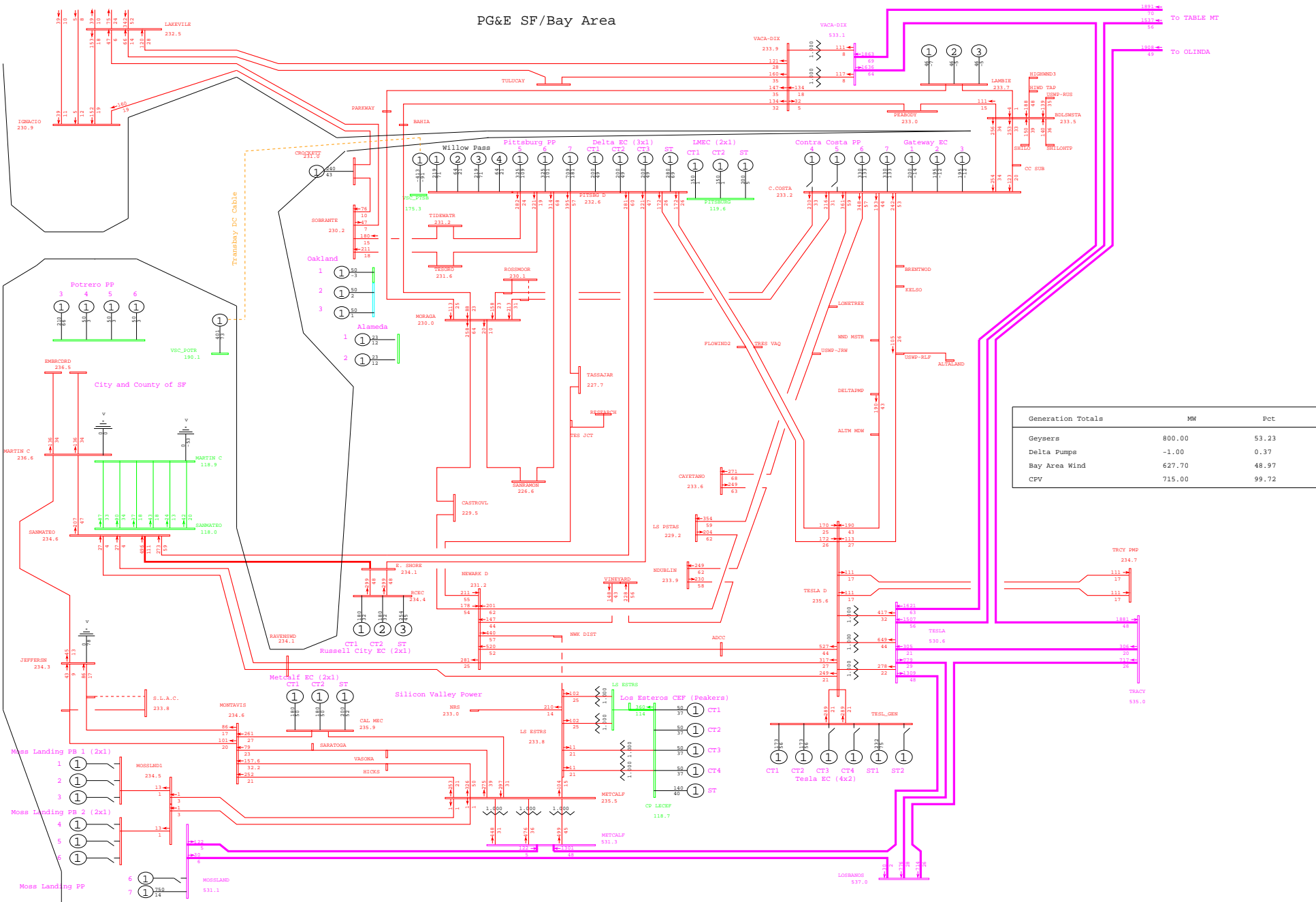


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

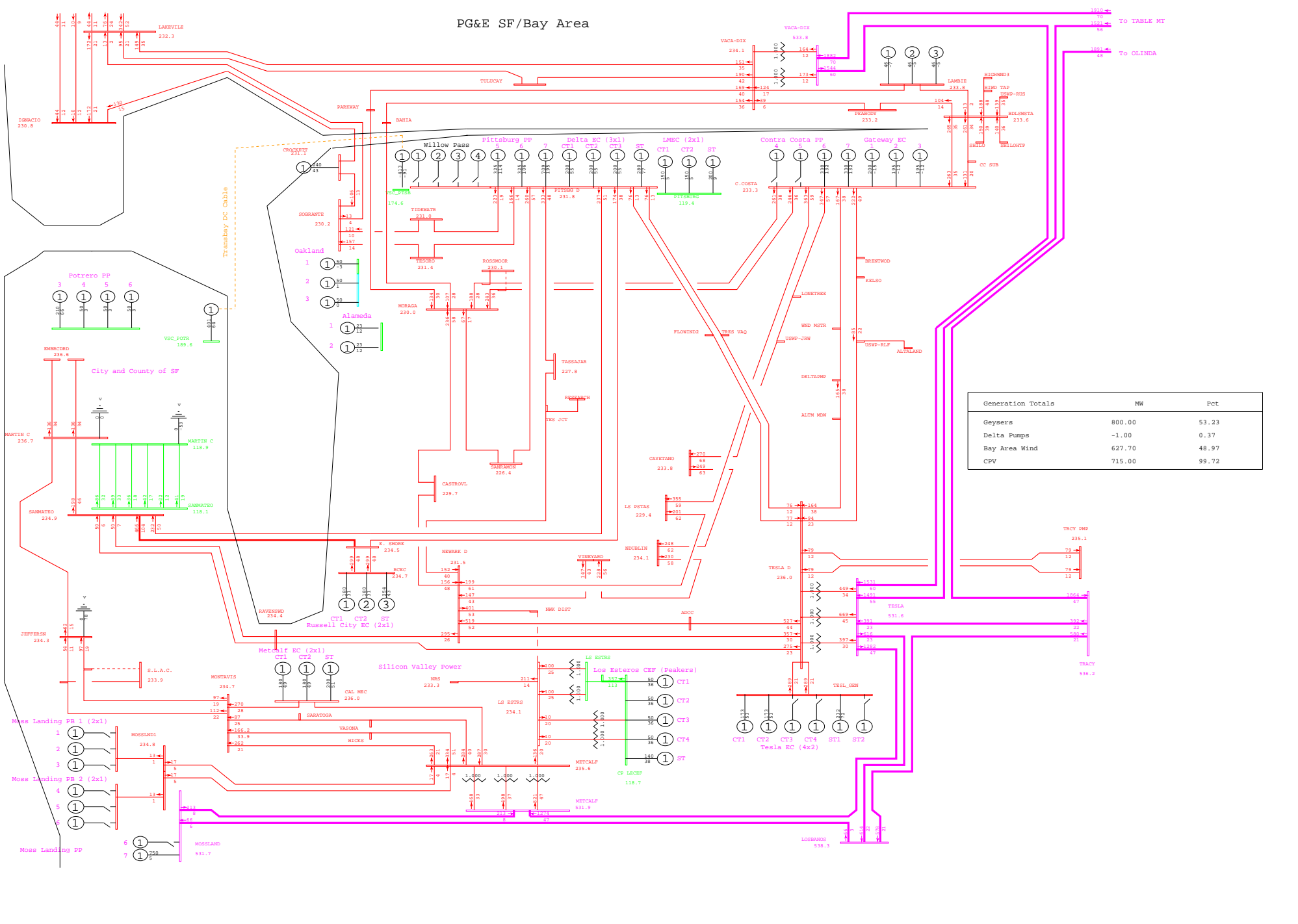
N-2 RICHMOND R - SOBRANTE 115kV #1 & #2 LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 515

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2


PG&E SF/Bay Area



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:53:44 2008 wlopssv2-2013mrnt_pre_ptsb-516.sav

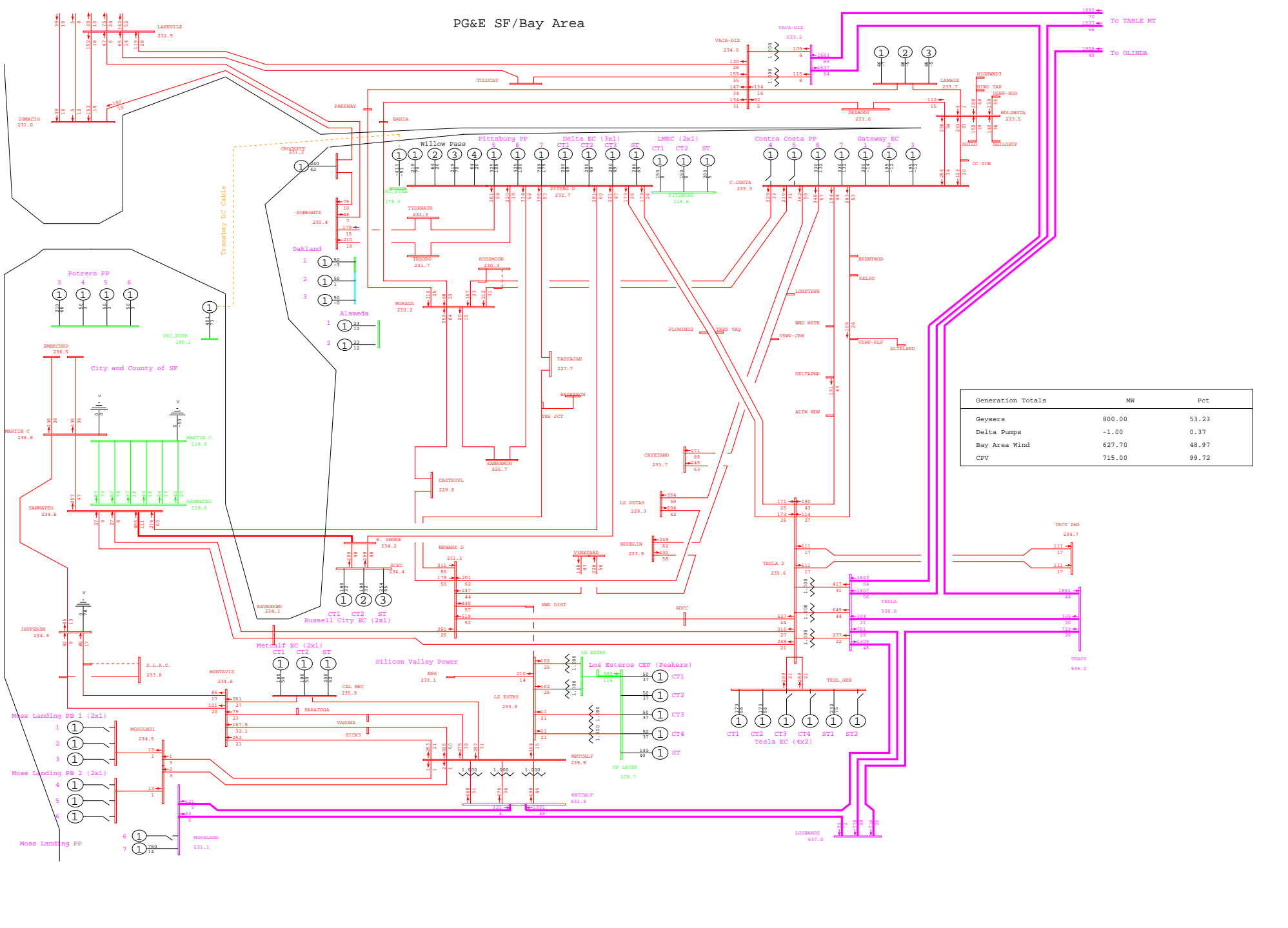


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 SOBRANTE - STANDARD OIL 115kV #1 & #2 LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 516

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



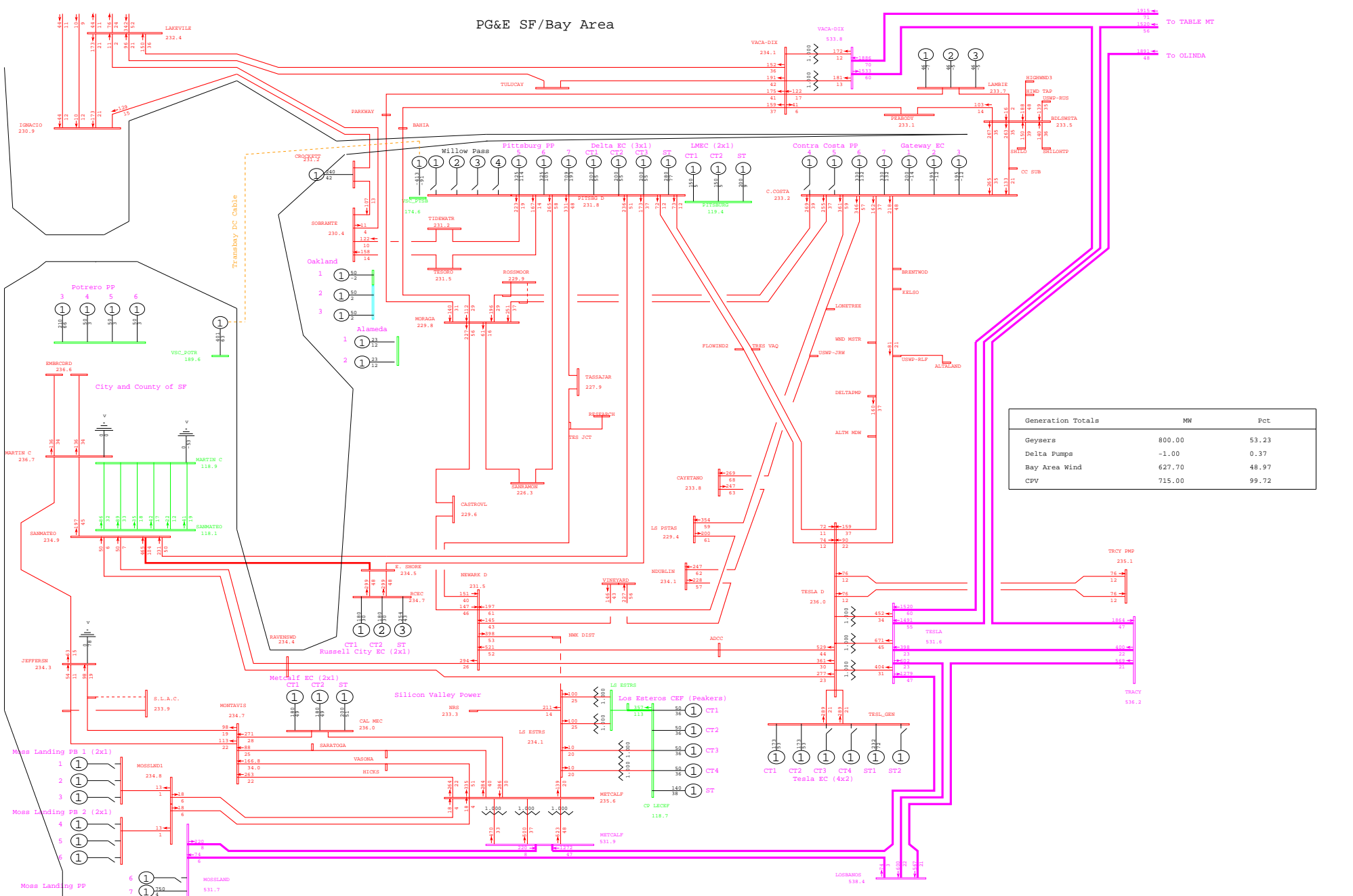
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:41 2008 wlopssv2-2013mrnt_pst_ptsb-516.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 SOBRANTE - STANDARD OIL 115kV #1 & #2 LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 516

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



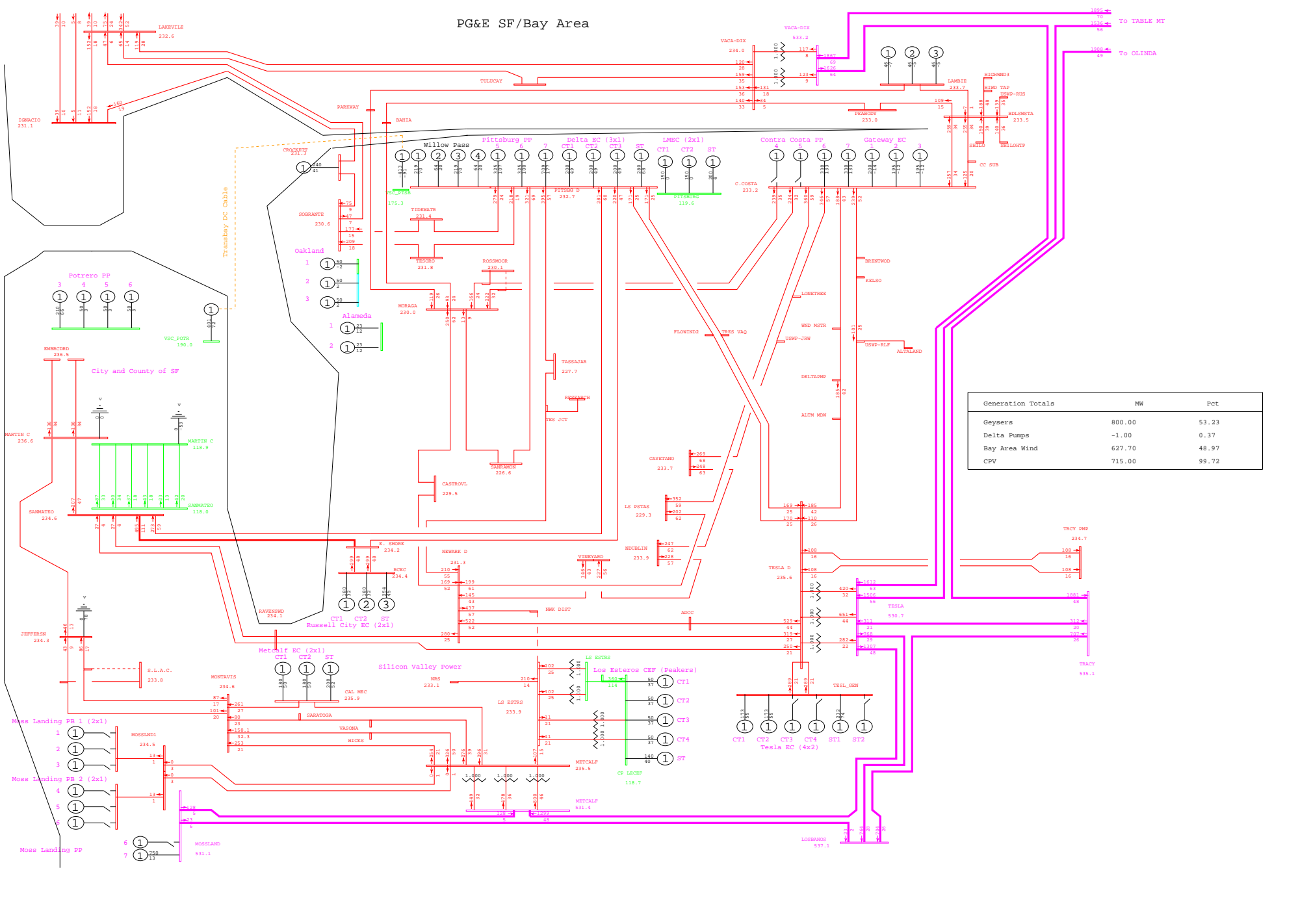
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:45 2008 wlopssv2-2013mrnt_pre_ptsb-517.sav




PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 SOBRANTE - GRIZLY - CLAIMONT 115kV #1 & #2 LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 517
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



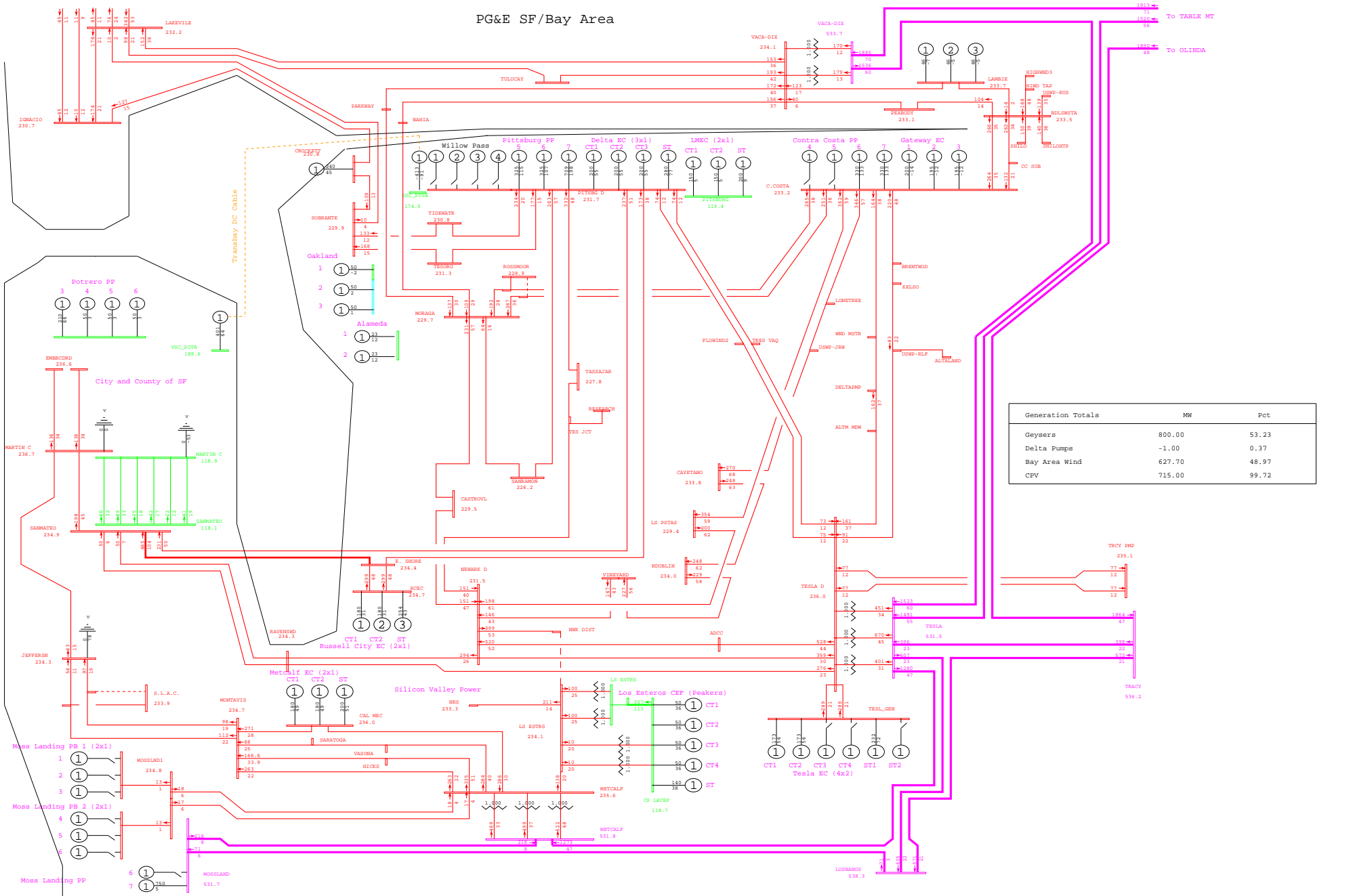
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:42 2008 wlopssv2-2013mrnt_pst_ptsb-517.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 SOBRANTE - GRIZLY - CLAIMONT 115kv #1 & #2 LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 517

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area

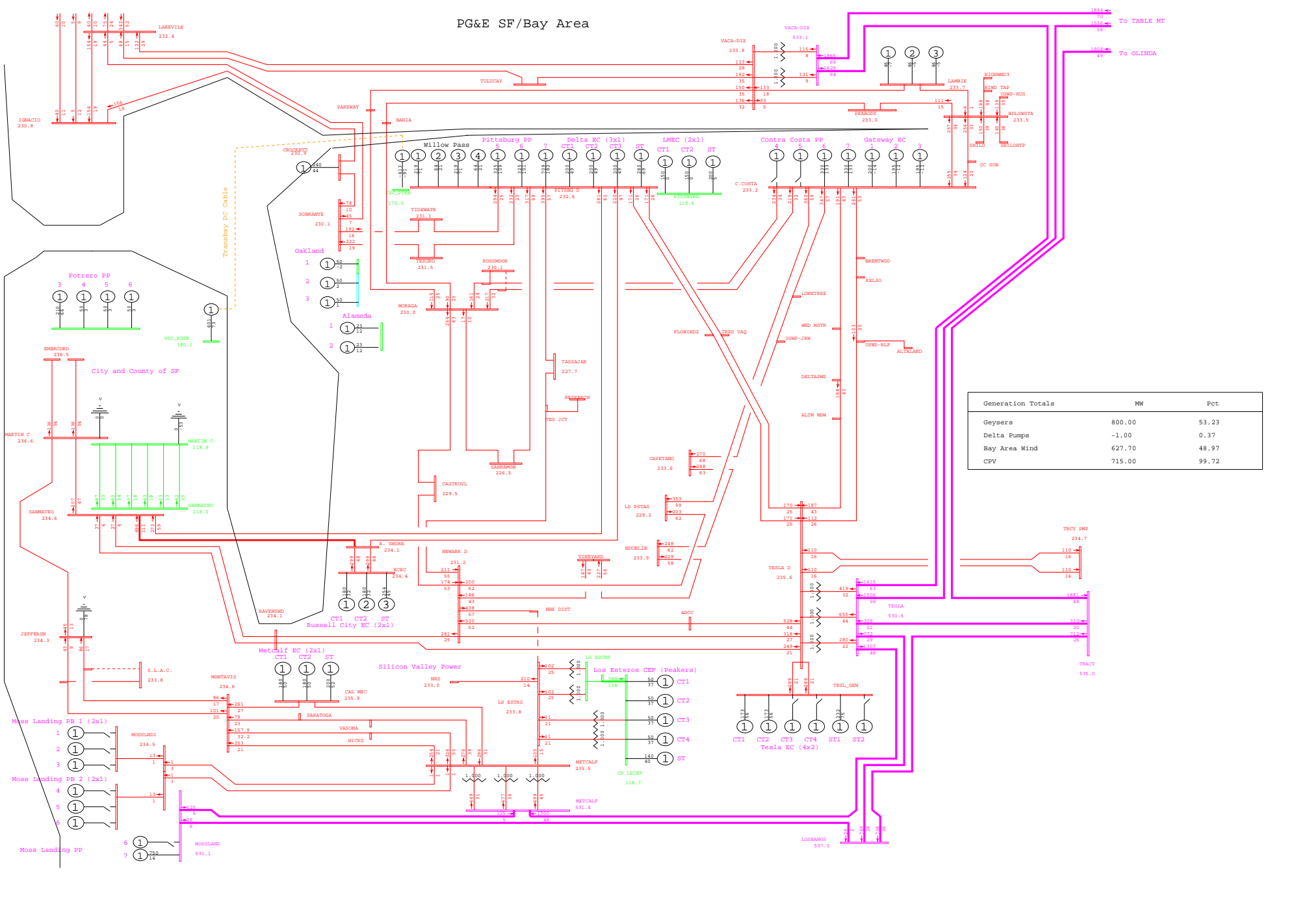


General Electric International, Inc. PSLF Program Fri Sep 26 20:53:45 2008 wlopssv2-2013mrnt_pre_ptsb-518.sav



 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 OLEUM - MARTINEZ&LINEOLEUM - N.TOWER-CHRISTE 115KV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 518
 MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



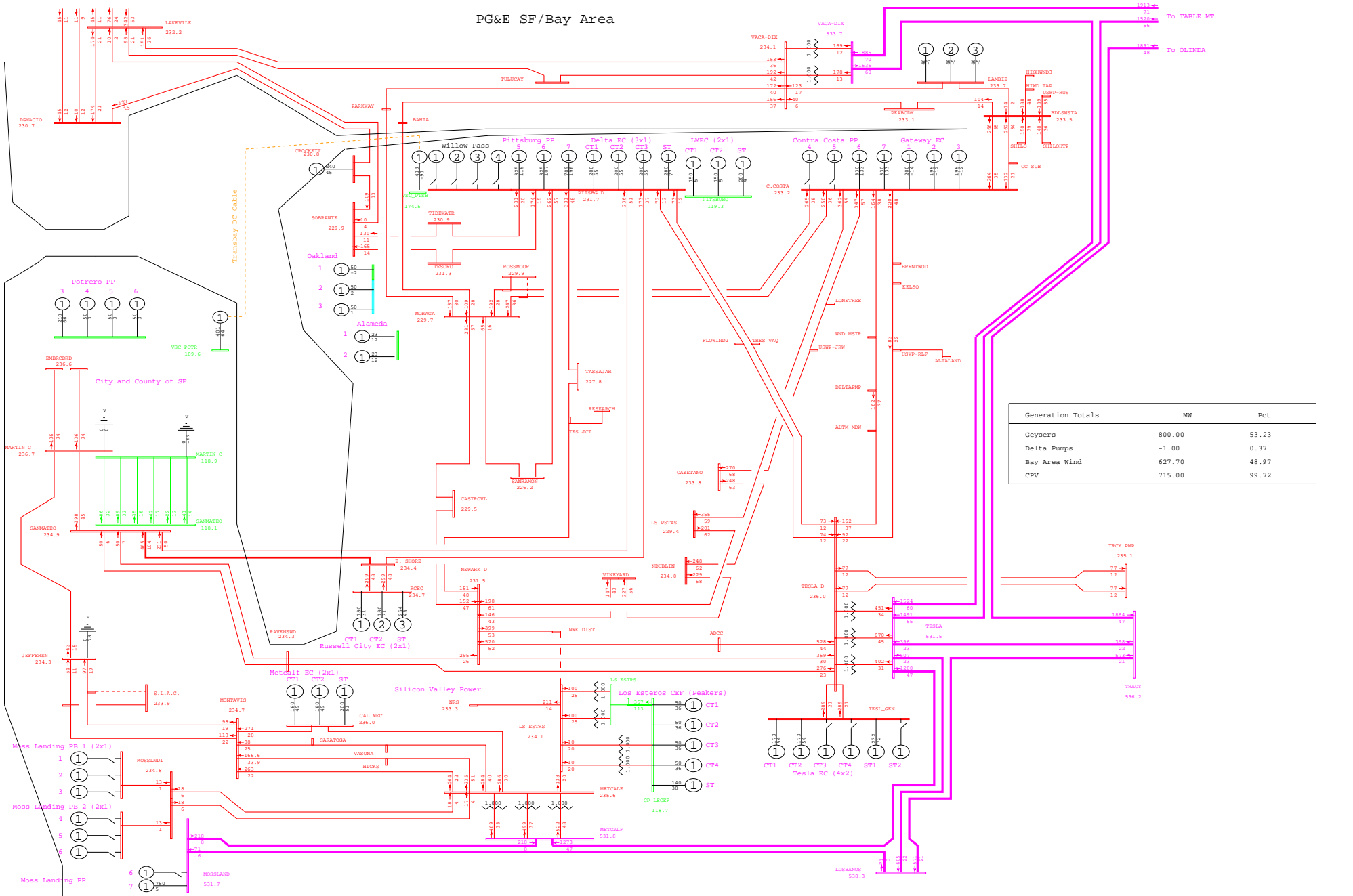
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:43 2008 wlopssv2-2013mrnt_pst_ptsb-518.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 OLEUM - MARTINEZ&LINEOLEUM - N.TOWER-CHRISTE 115KV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 518

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



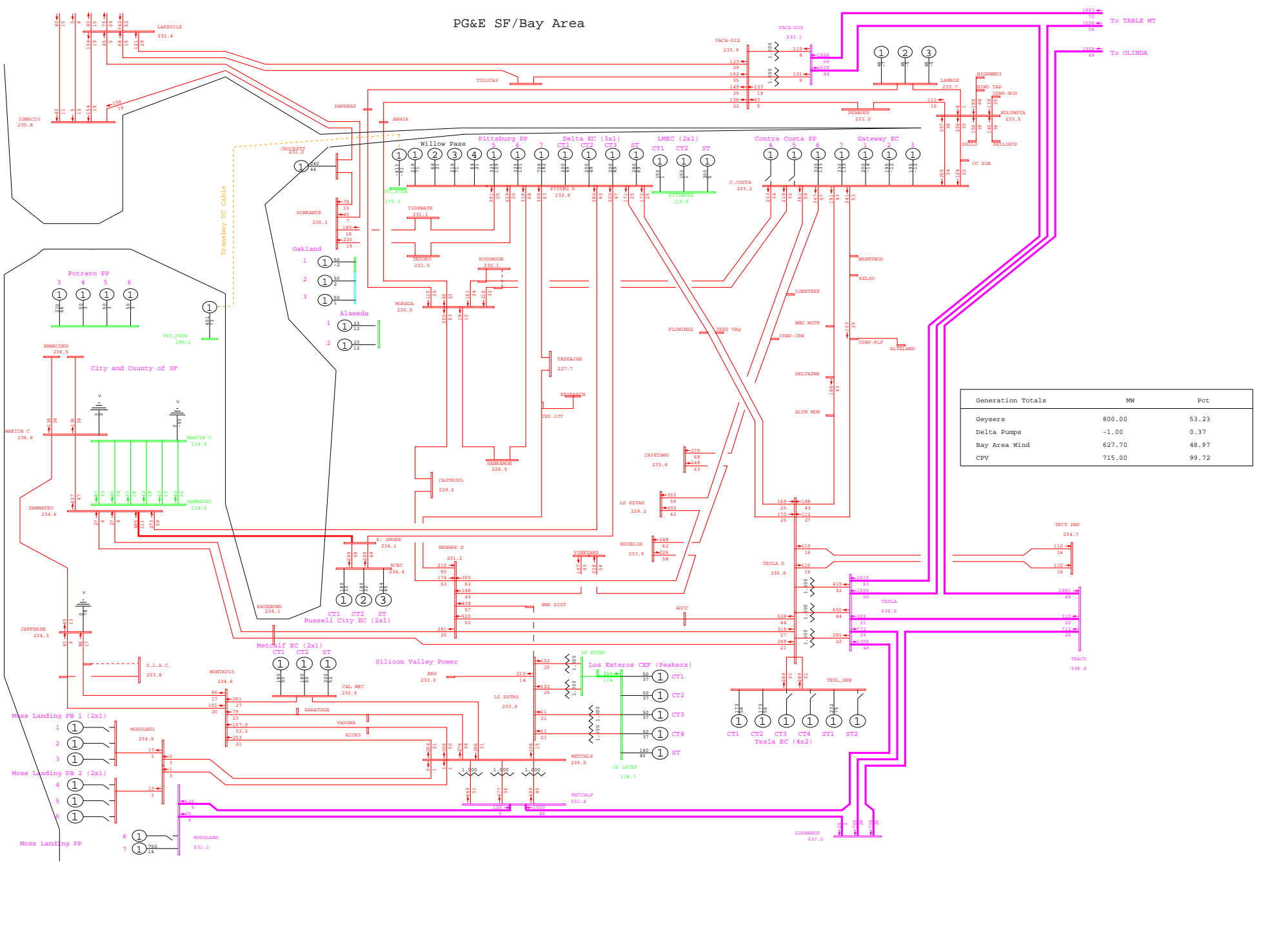
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:46 2008 wlopssv2-2013mrnt_pre_ptsb-519.sav



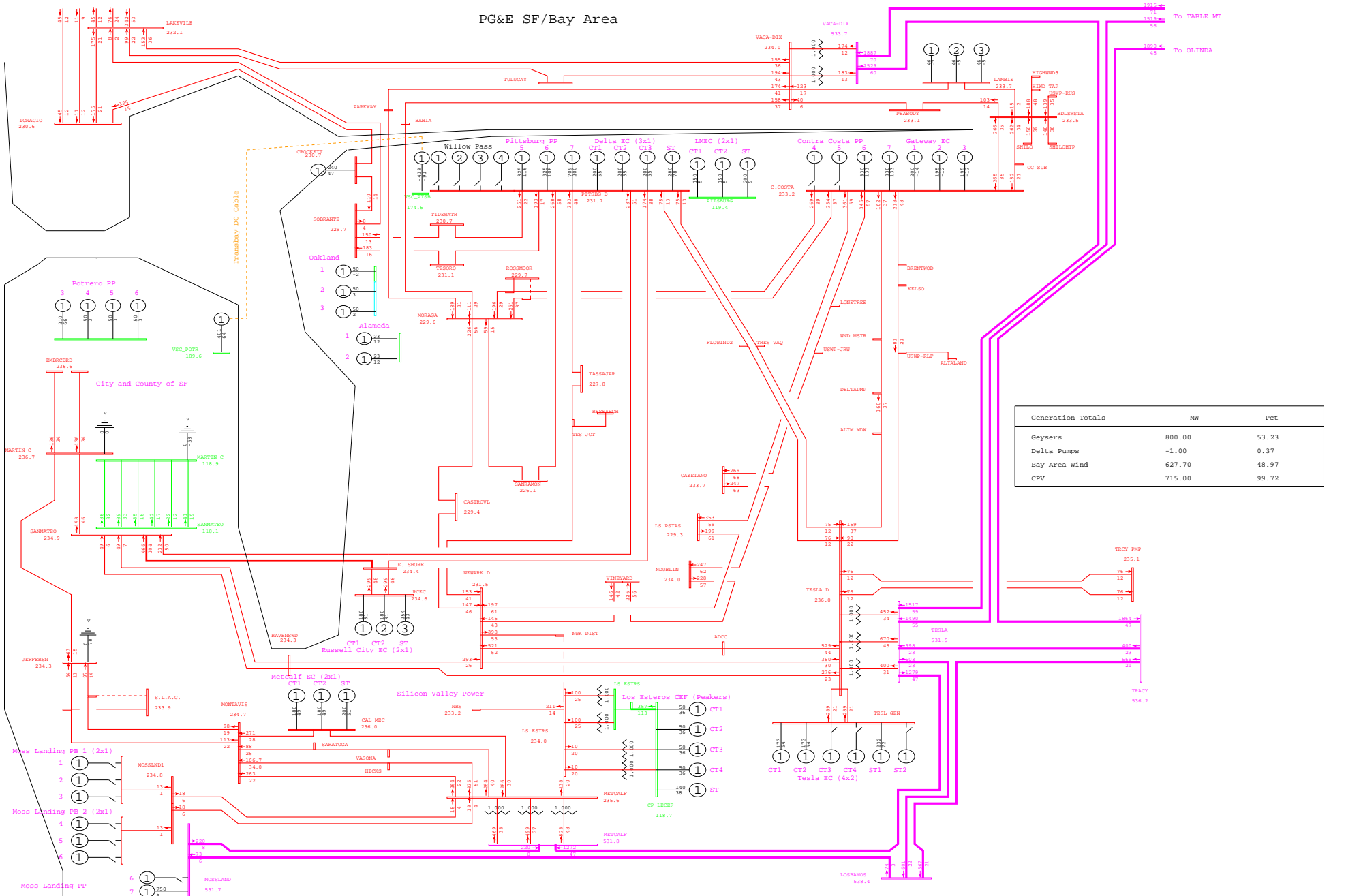
PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 OLEUM - NTR - CHRITIE&MARTNZ - ALHABRA - SOBRANTE 115KV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 519
 MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2


PG&E SF/Bay Area



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:53:47 2008 wlopssv2-2013mrnt_pre_ptsb-520.sav

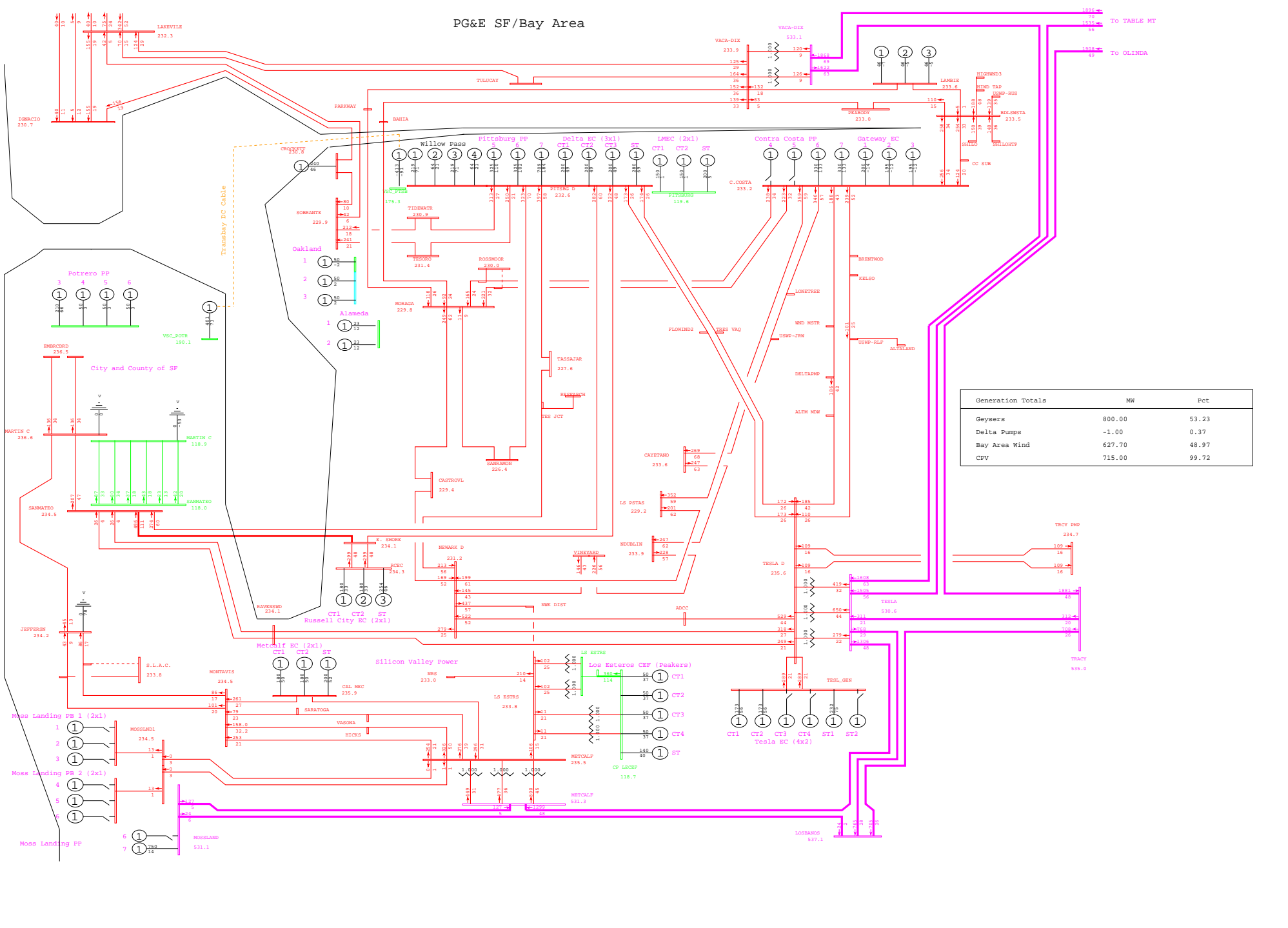


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 MARTINEZ - SOBRANTE 115kV LINE & OLEUM - MARTINEZ 115kV LINES & ALHAMBRA LO
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 520

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



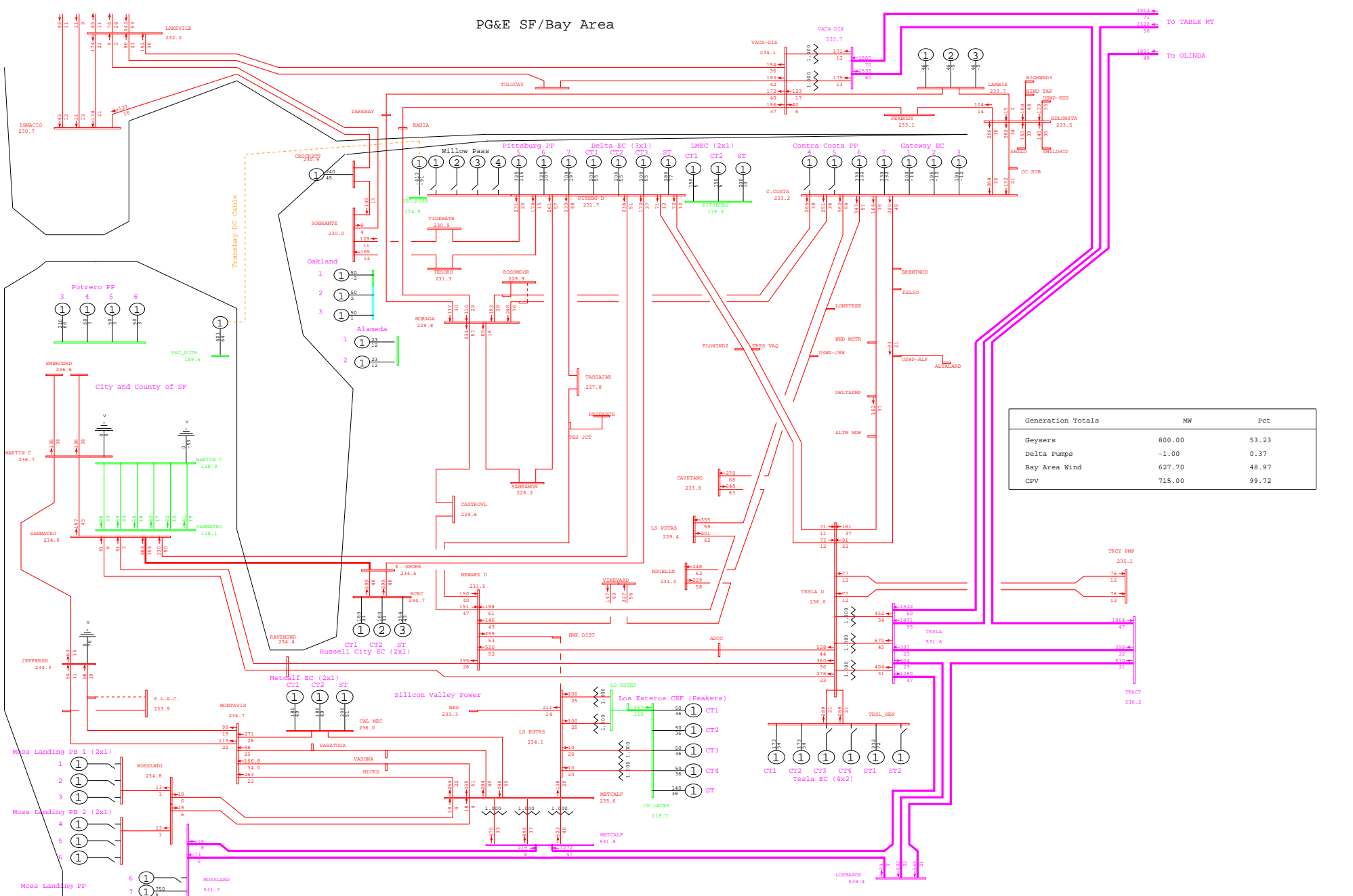
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:45 2008 wloppsv2-2013mrnt_pst_ptsb-520.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 MARTINEZ - SOBRANTE 115kV LINE & OLUEM - MARTINEZ 115kV LINES & ALHAMBRA LO
 wloppsv2.pfp, STEADY STATE, CASE NUMBER 520

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:53:48 2008 wlopssv2-2013mrnt_pre_ptsb-521.sav

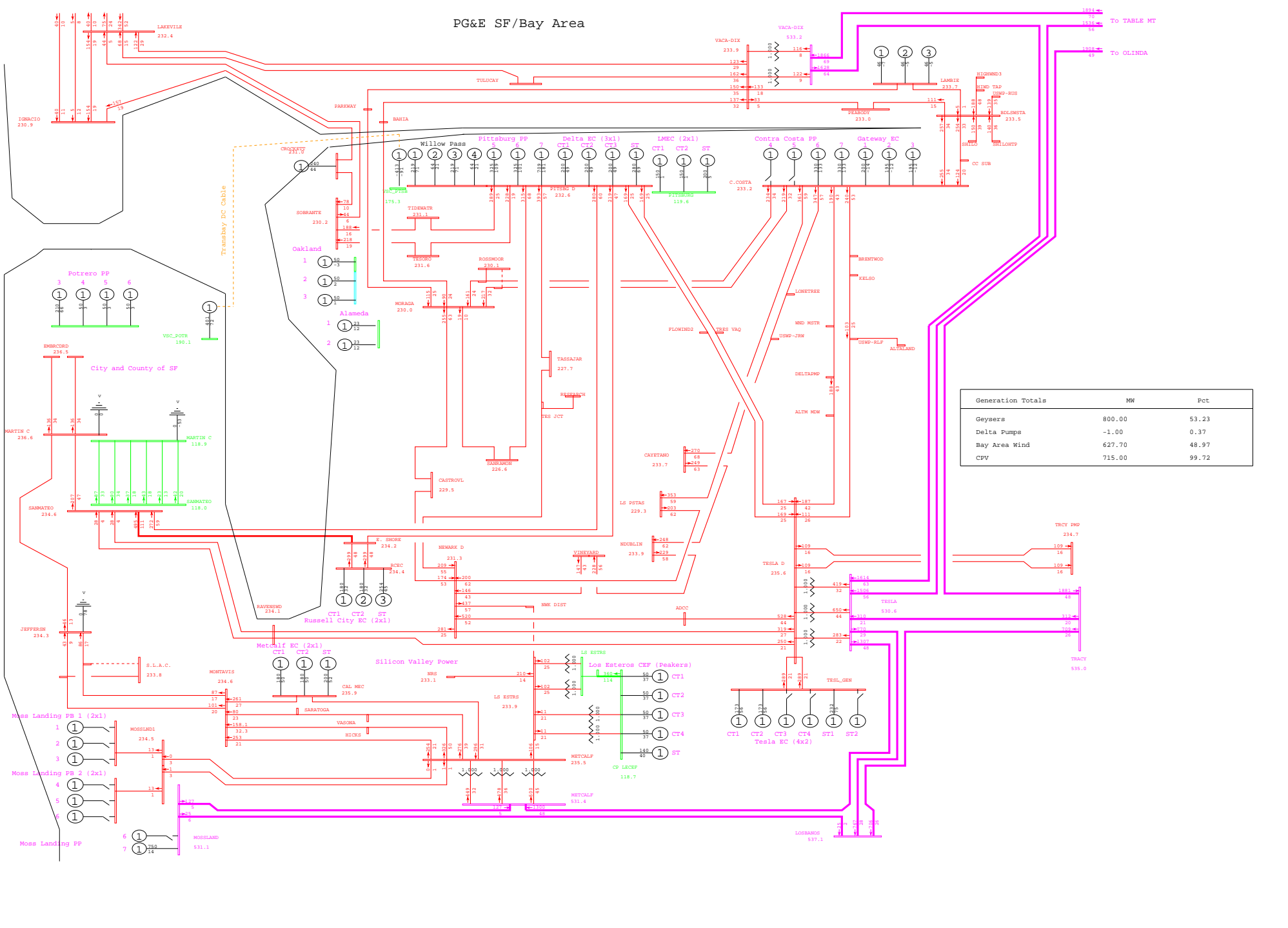


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 OLEUM - EL CERRITO STATION G 115kV LINES 1 & 2 & VALLEY VIEW LOAD
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 521

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



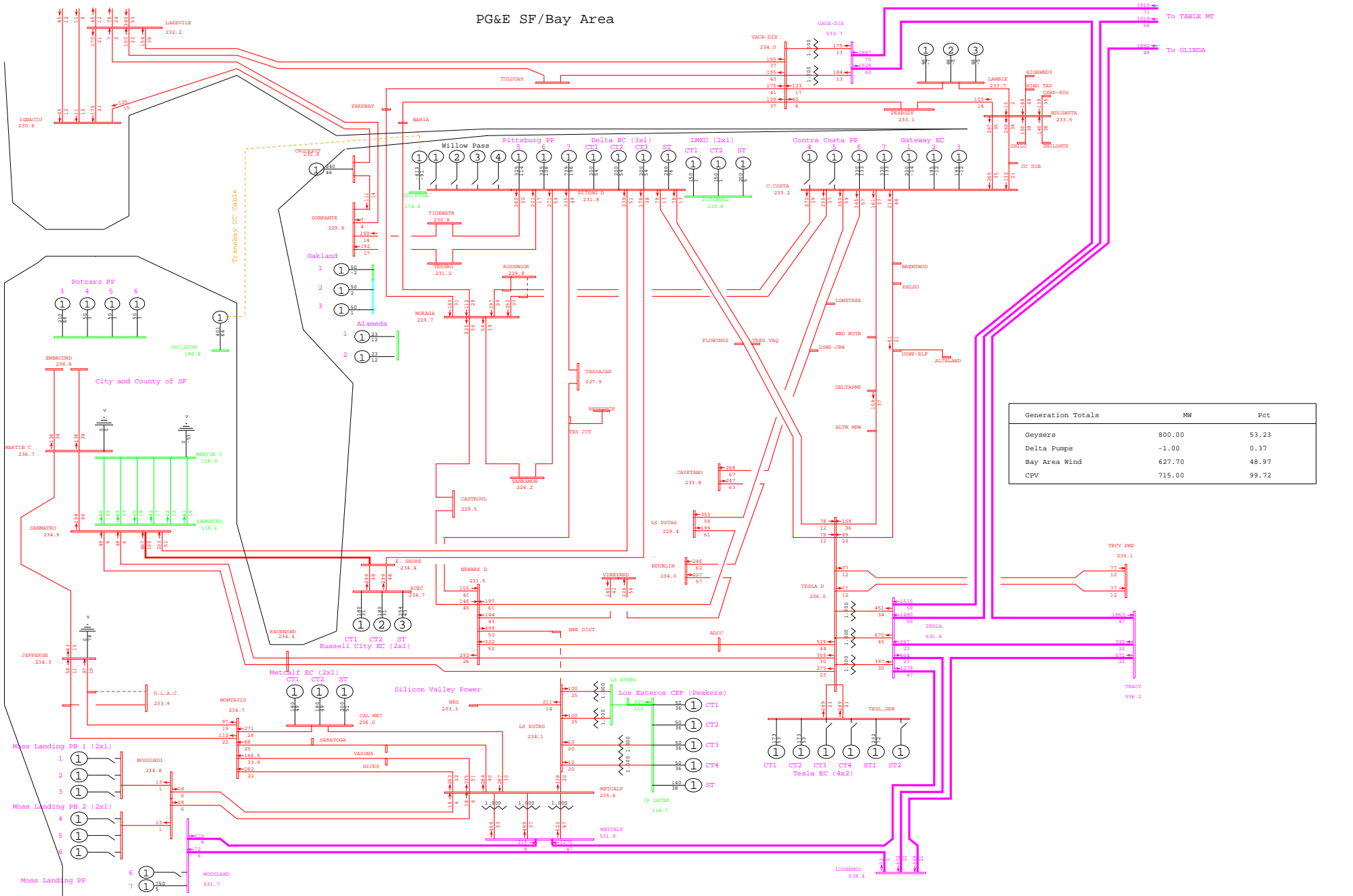
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:46 2008 wlopssv2-2013mrnt_pst_ptsb-521.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 OLEUM - EL CERRITO STATION G 115kV LINES 1 & 2 & VALLEY VIEW LOAD
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 521

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



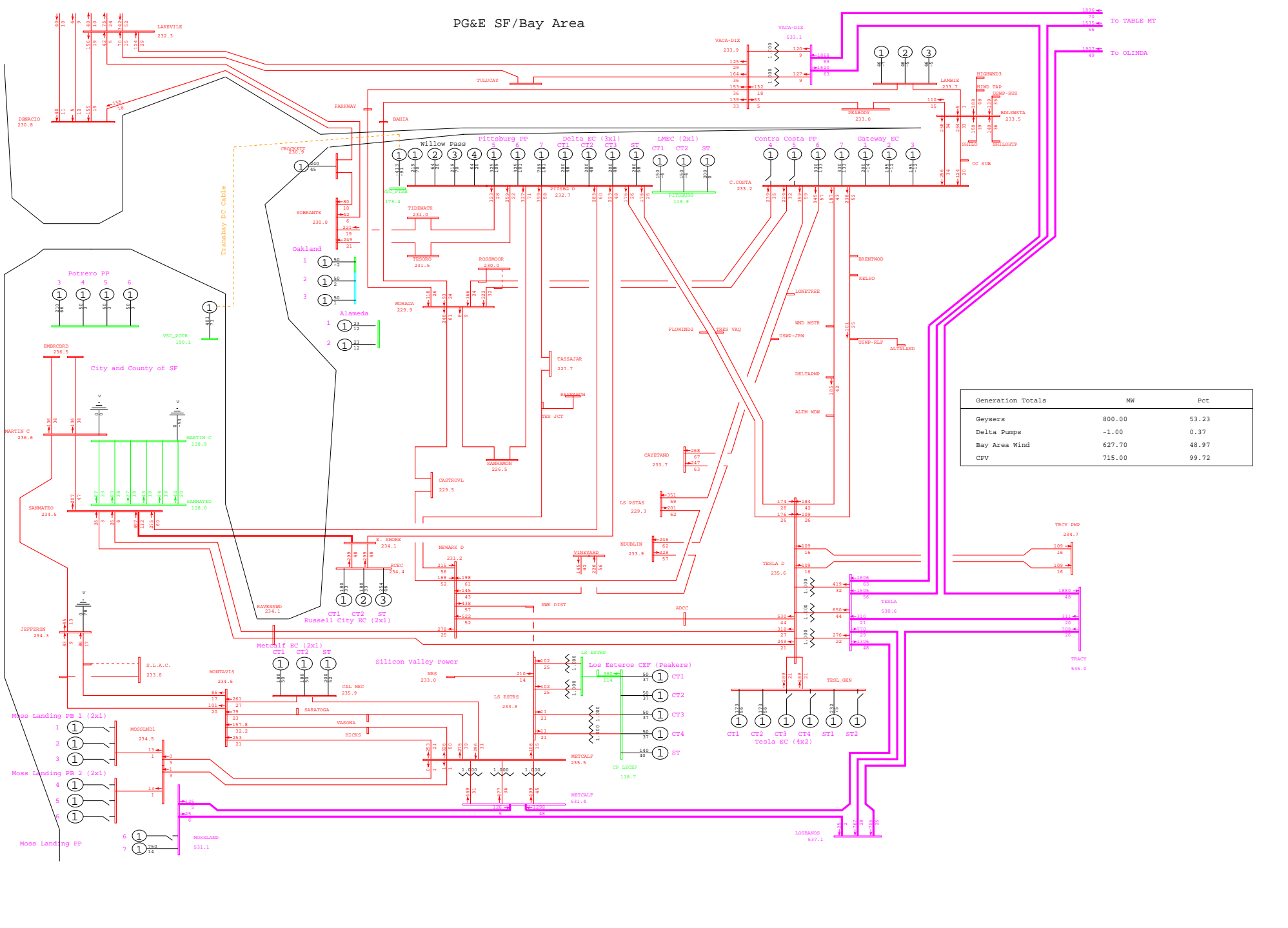
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:49 2008 wlopssv2-2013mrnt_pre_ptsb-526.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 PITTS - MARTZ 115kV #1 & #2 LINES, WP BART, BOLLMAN, CCCSD LD & CCCSD
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 526

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



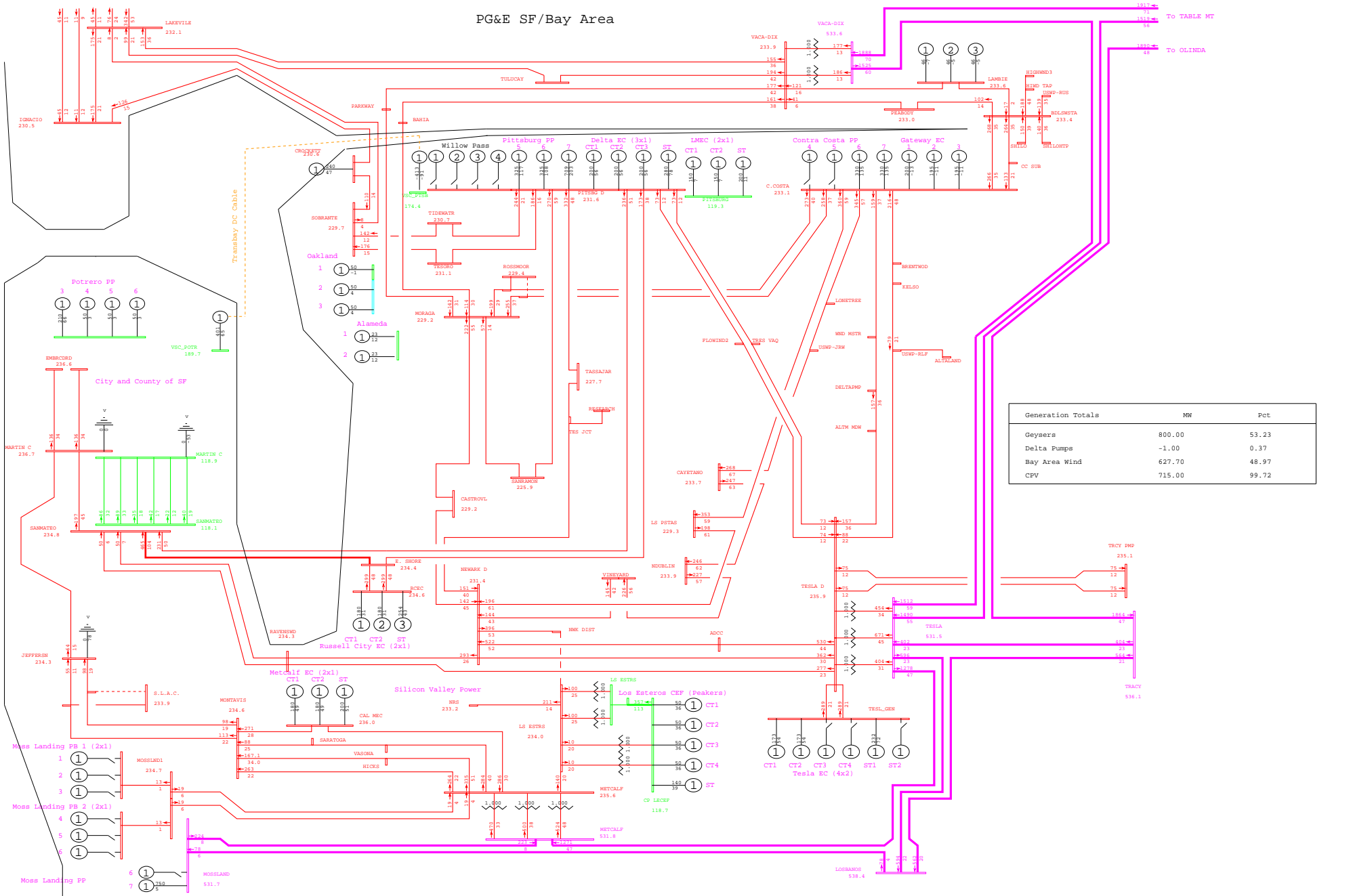
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:47 2008 wloppsv2-2013mrnt_pst_ptsb-526.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 PITTS - MARTZ 115kV #1 & #2 LINES, WP BART, BOLLMAN, CCCSD LD & CCCSD
 wloppsv2.pfp, STEADY STATE, CASE NUMBER 526

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:53:50 2008 wlopssv2-2013mrnt_pre_ptsb-527.sav

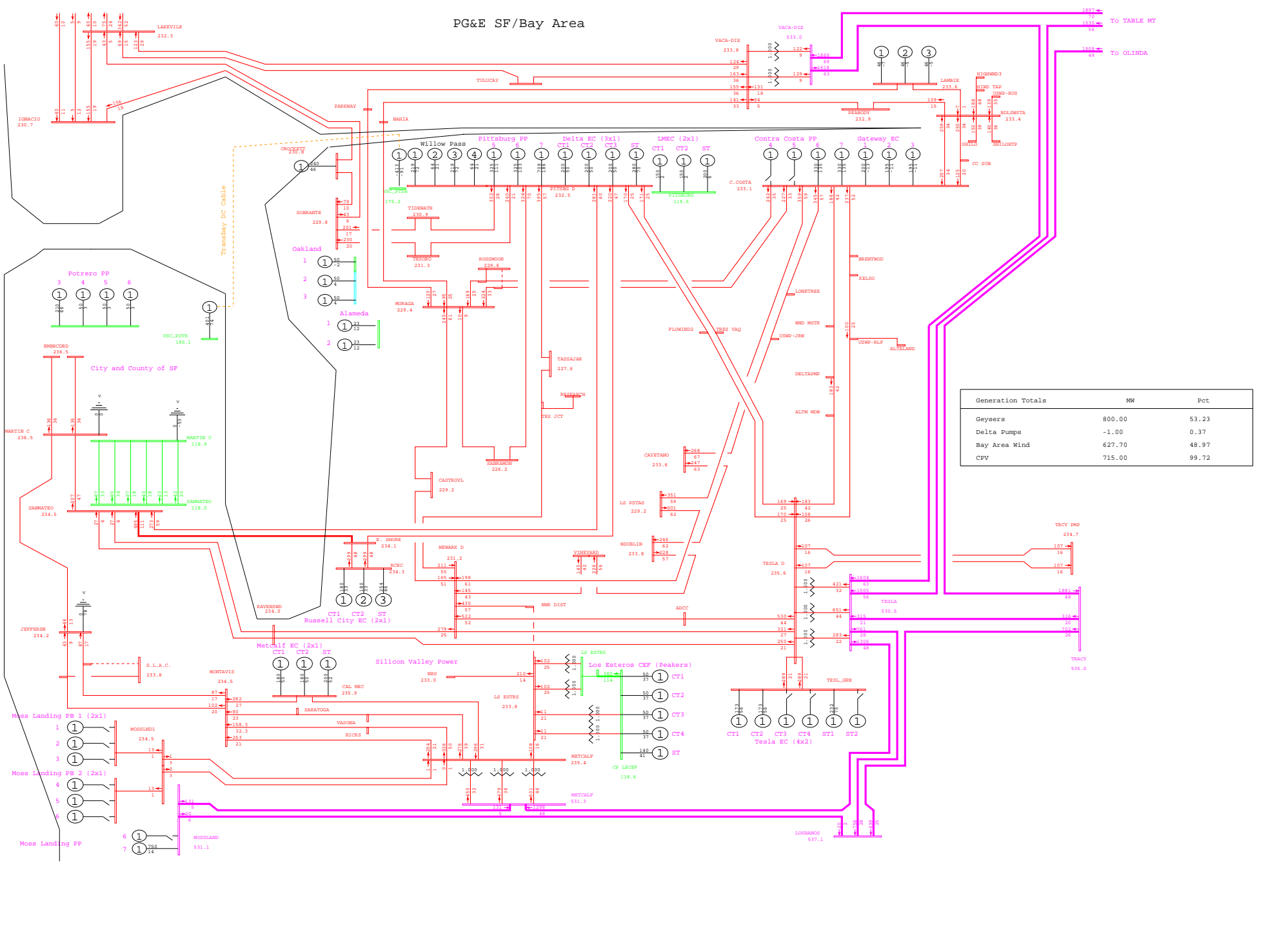


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 PITTSBURG - CLAYTON 115kV #1 & #3 LINE & KIRKER LD RADIAL FROM PITTS-KIRKE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 527

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:50:48 2008 wlopssv2-2013mrnt_pst_ptsb-527.sav

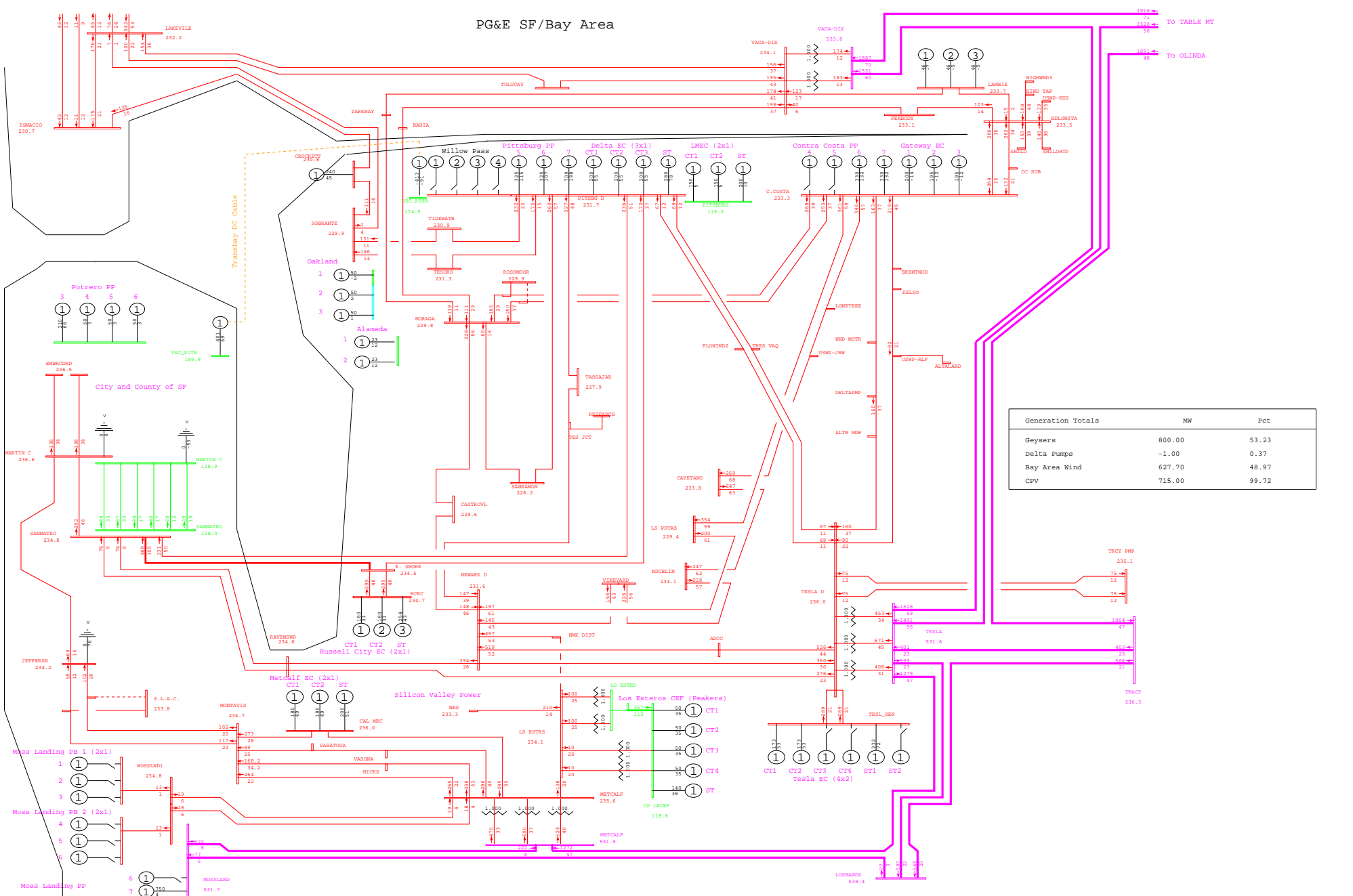
PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 PITTSBURG - CLAYTON 115kV #1 & #3 LINE & KIRKER LD RADIAL FROM PITTS-KIRKE
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 527

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2



PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

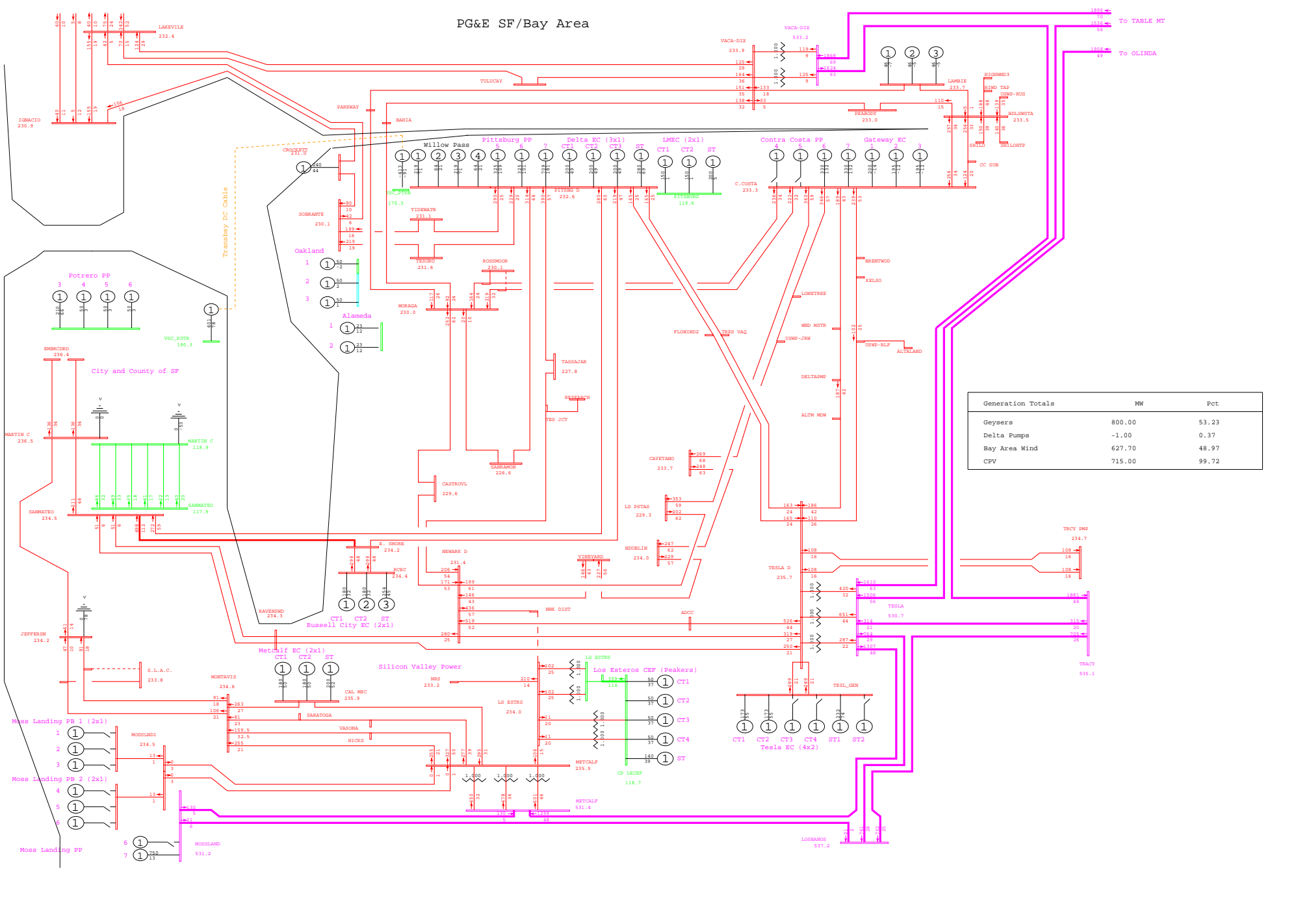
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:51 2008 wlopssv2-2013mrnt_pre_ptsb-533.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 RAVENSWOOD - BAIR #1 & #2 115kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 533
 MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:50:50 2008 wlopssv2-2013mrnt_pst_ptsb-533.sav

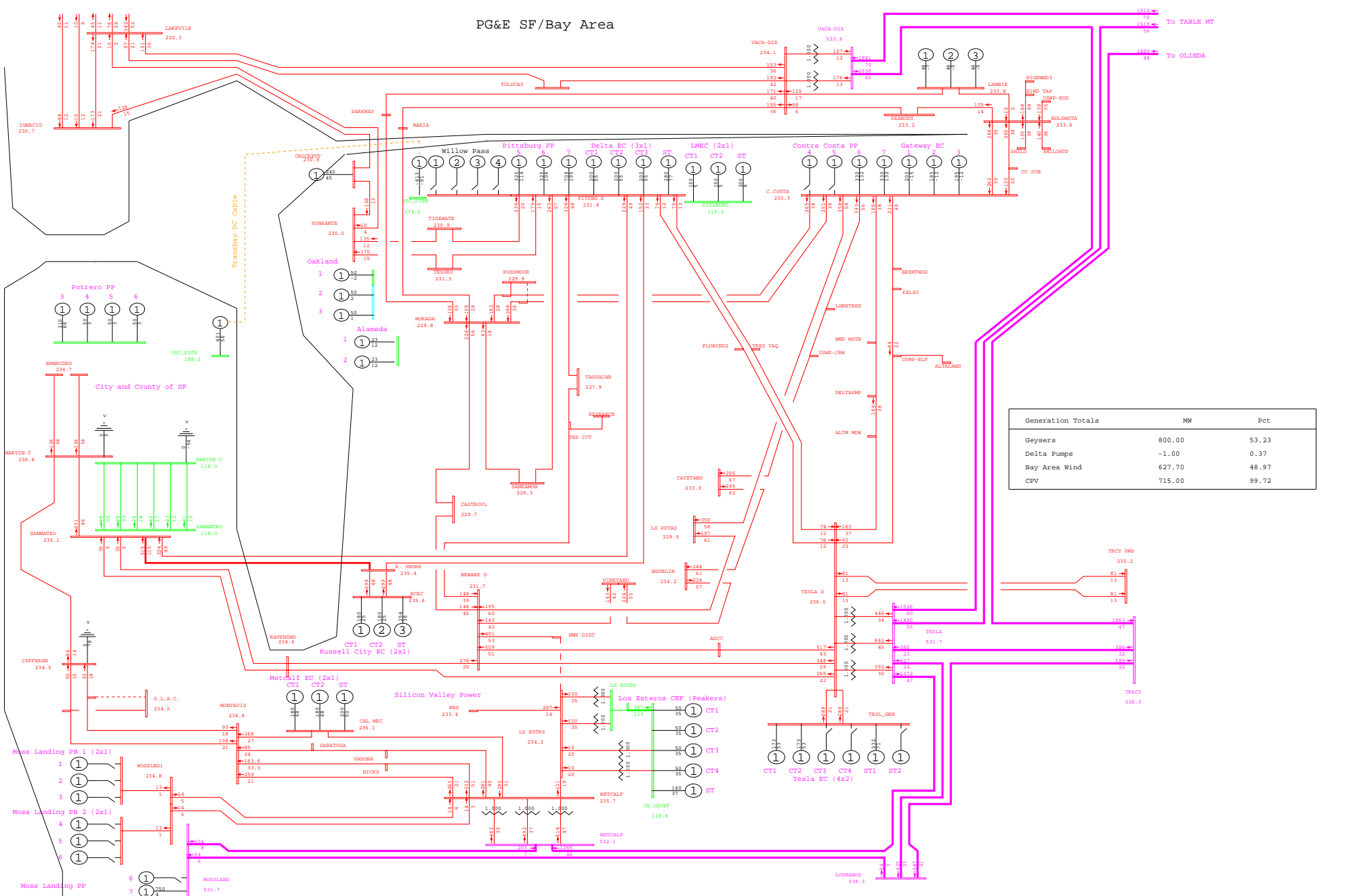


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 RAVENSWOOD - BAIR #1 & #2 115kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 533

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



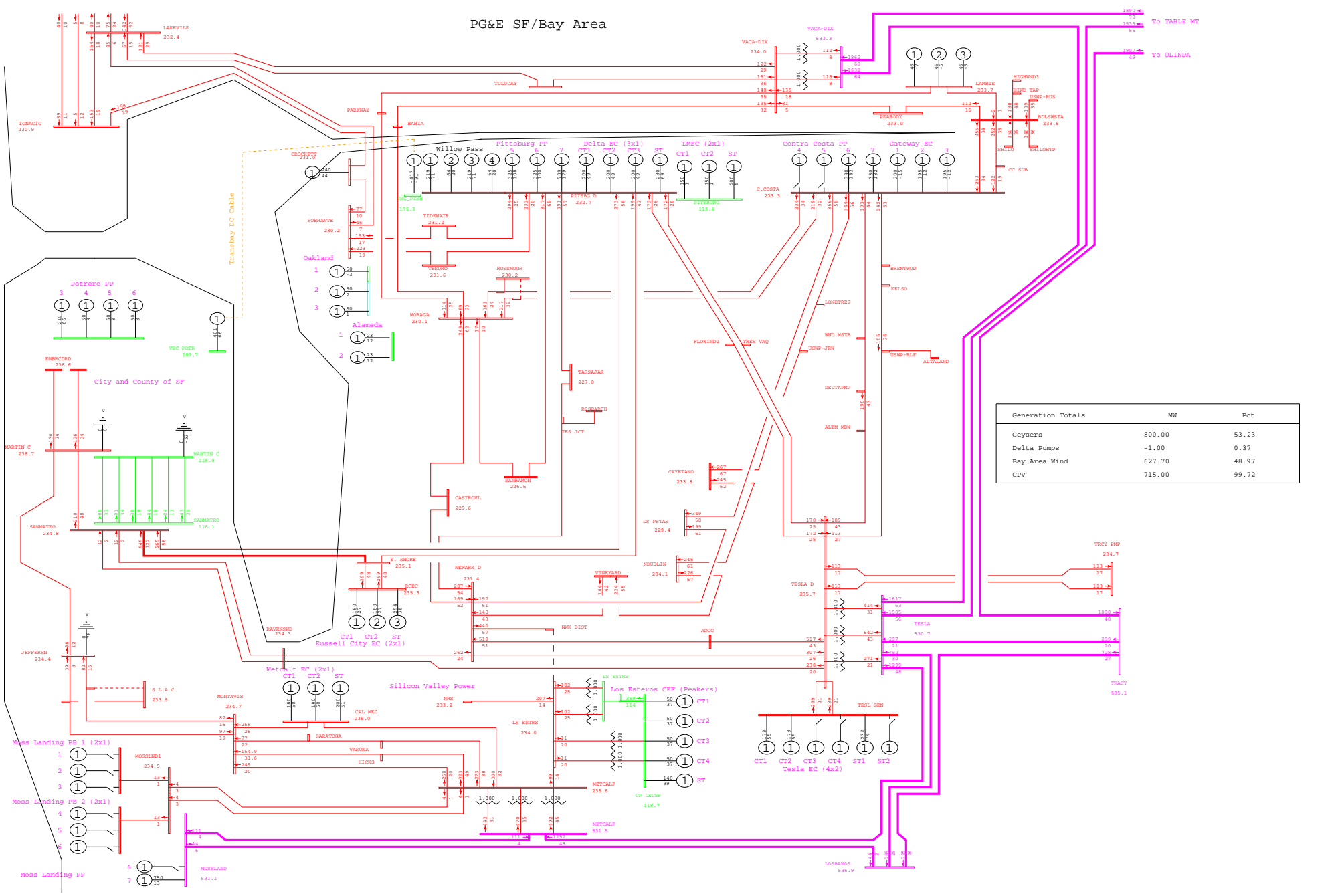
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:52 2008 wlopssv2-2013mrnt_pre_ptsb-535.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 EASTSHORE - MT EDEN #1 & #2 115kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 535

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:50:51 2008 wlopssv2-2013mrnt_pst_ptsb-535.sav

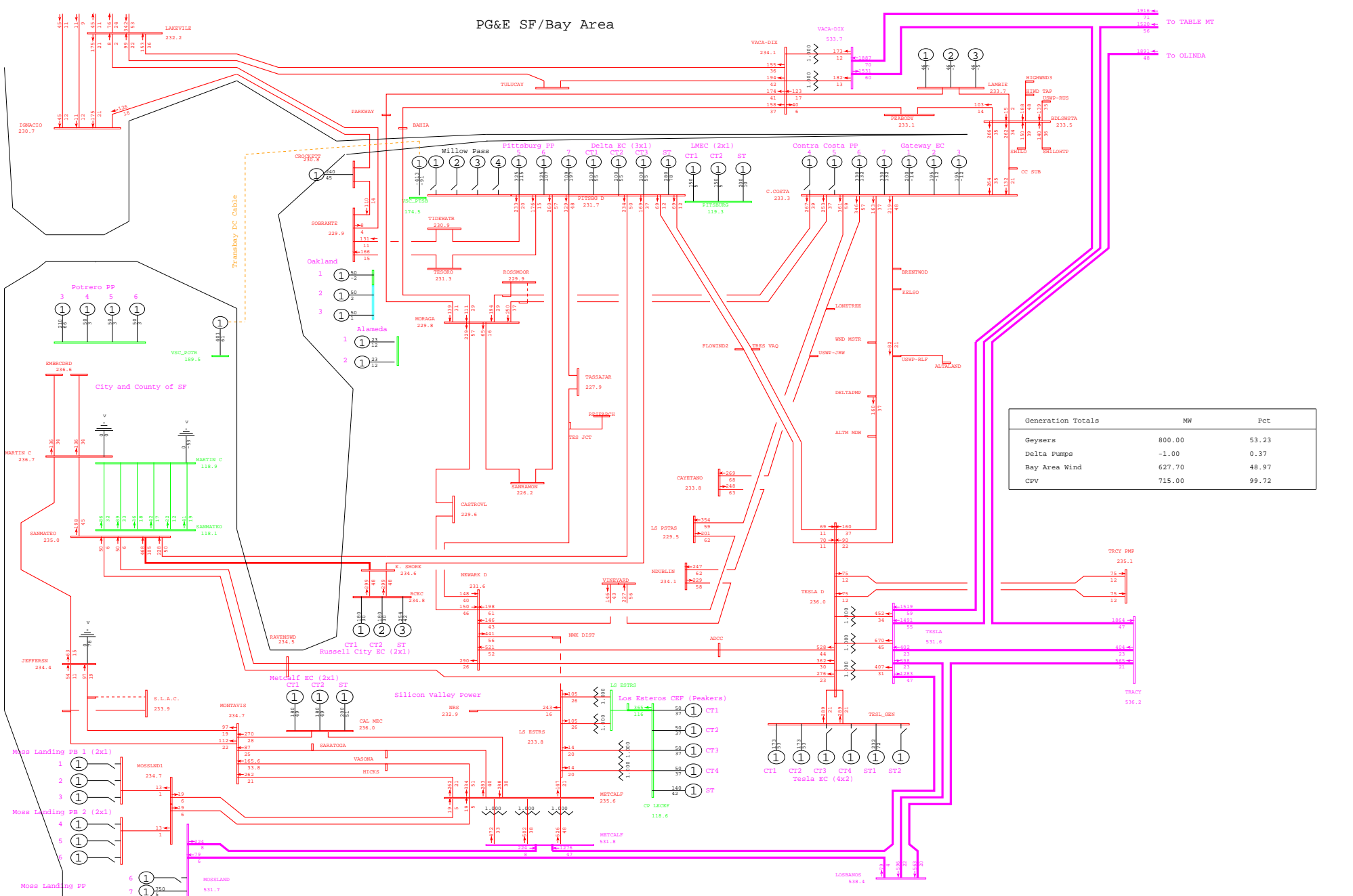


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 EASTSHORE - MT EDEN #1 & #2 115kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 535

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:53:53 2008 wlopssv2-2013mrnt_pre_ptsb-536.sav

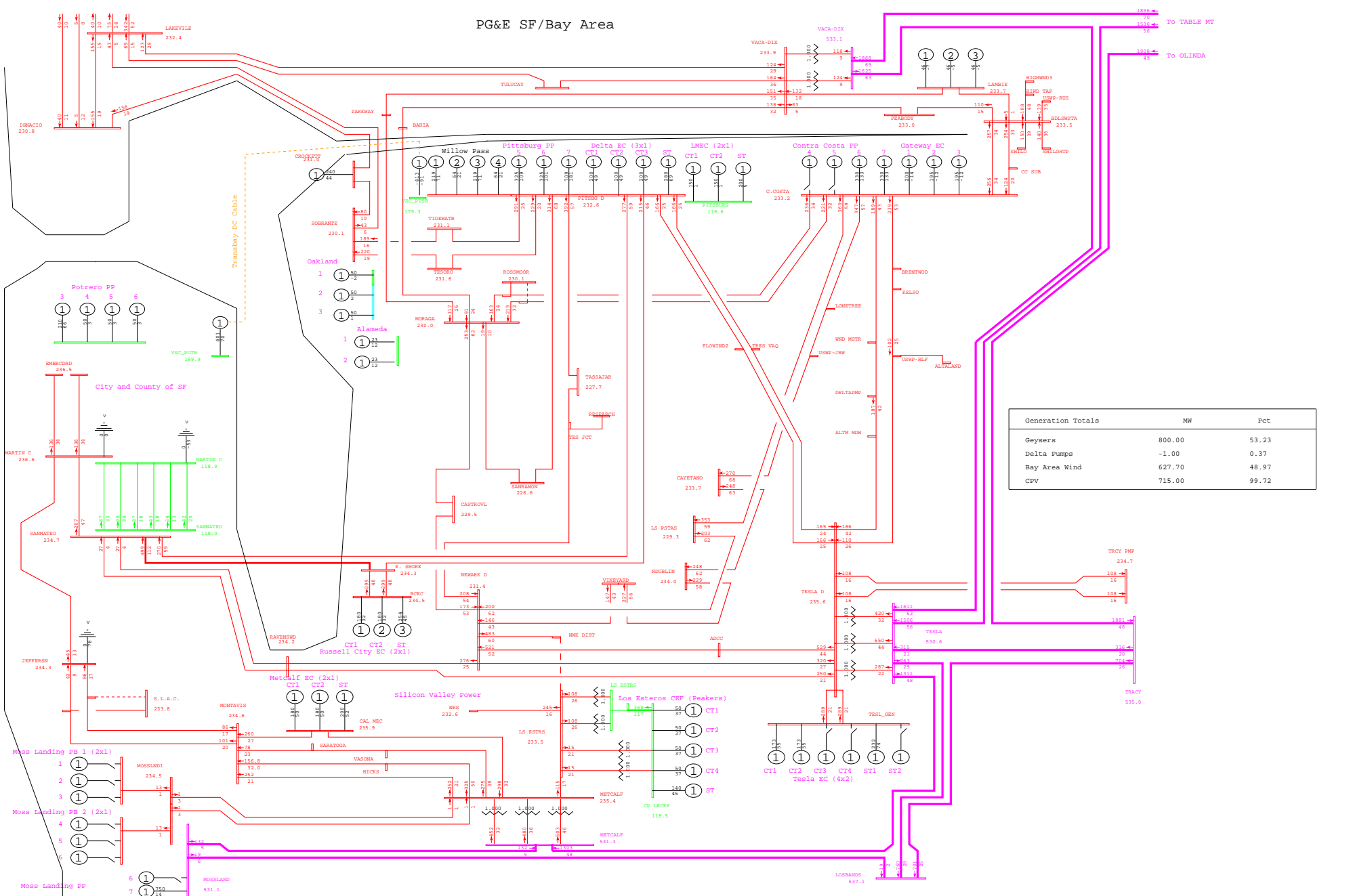


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 NEWARK - NORTHERN #1 & #2 115kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 536

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:50:52 2008 wlopssv2-2013mrnt_pst_ptsb-536.sav

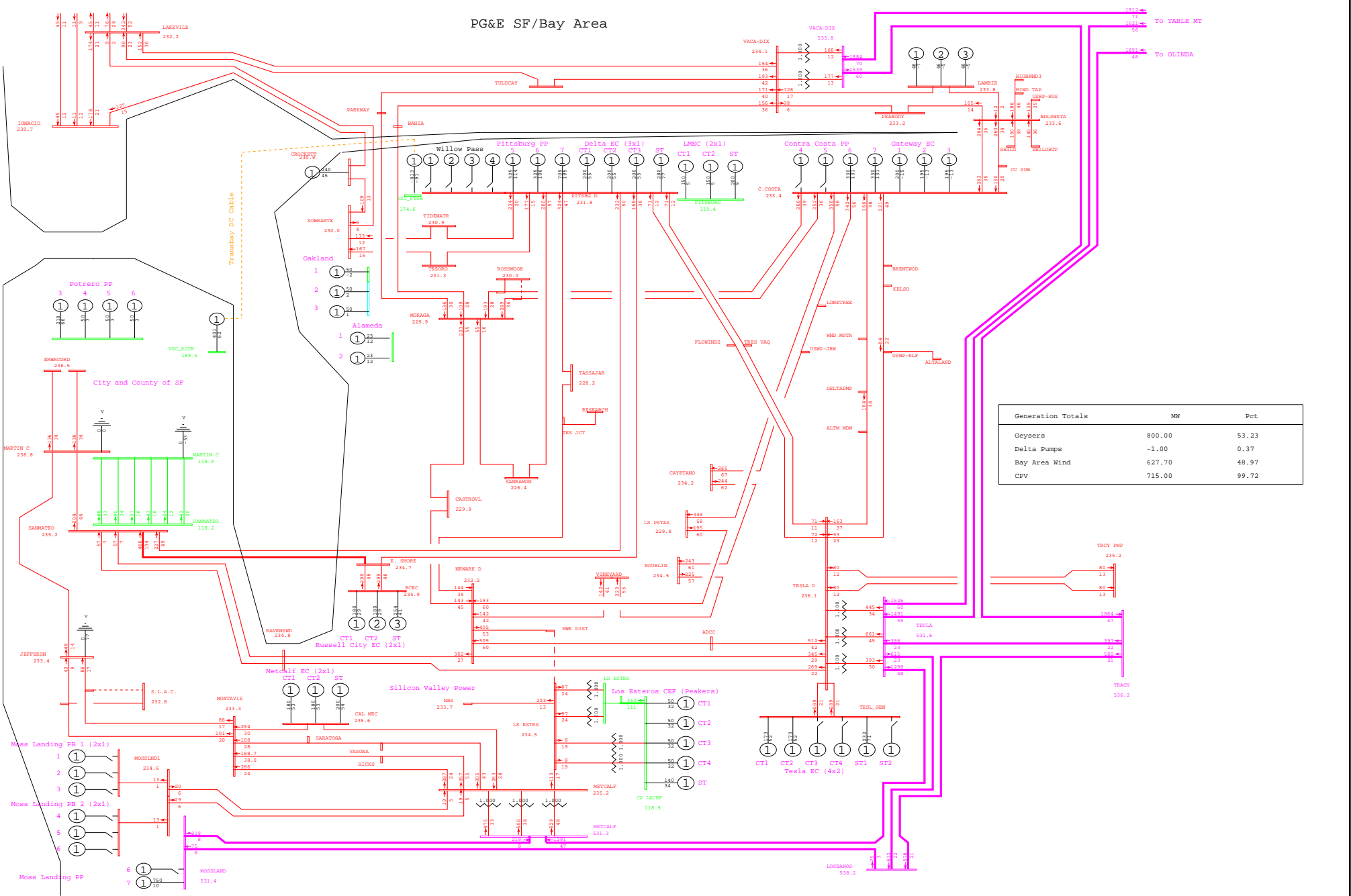


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 NEWARK - NORTHERN #1 & #2 115kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 536

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

General Electric International, Inc. PSLF Program Fri Sep 26 20:53:54 2008 wlopcsv2-2013mrnt_pre_ptsb-537.sav

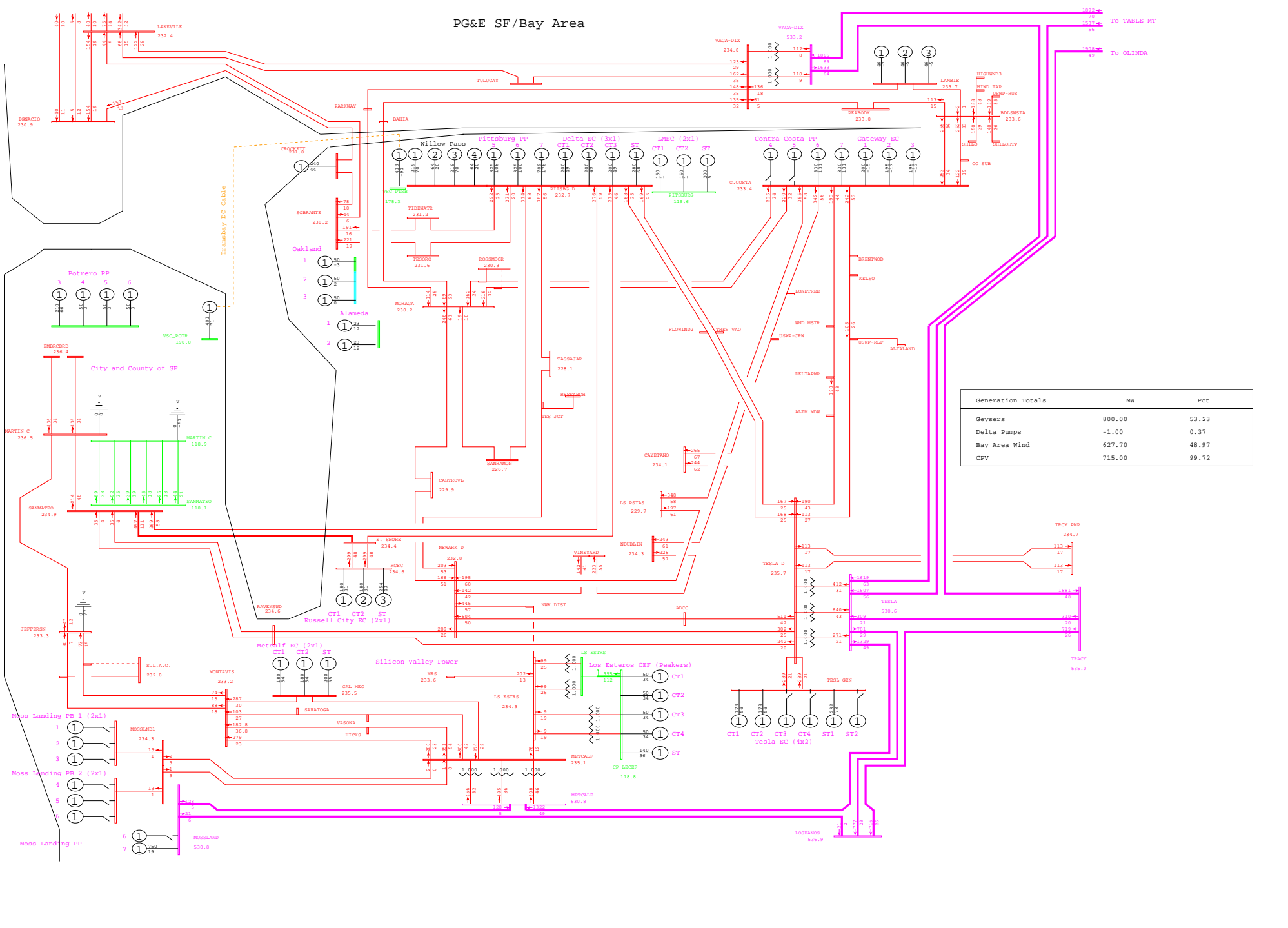


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
2013 SUMP: SYSTEM CASE (1-IN-10 LOAD)
COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 NEWARK - LAWRENCE - MOFFET - LOCKHEED&NEWARK - AMD - APPLIED MATERIALS 115k
wlopcsv2.pfp, STEADY STATE, CASE NUMBER 537

MW/% rate
bayarea_2013_PGE_v4.crv
Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:50:53 2008 wlopssv2-2013mrnt_pst_ptsb-537.sav

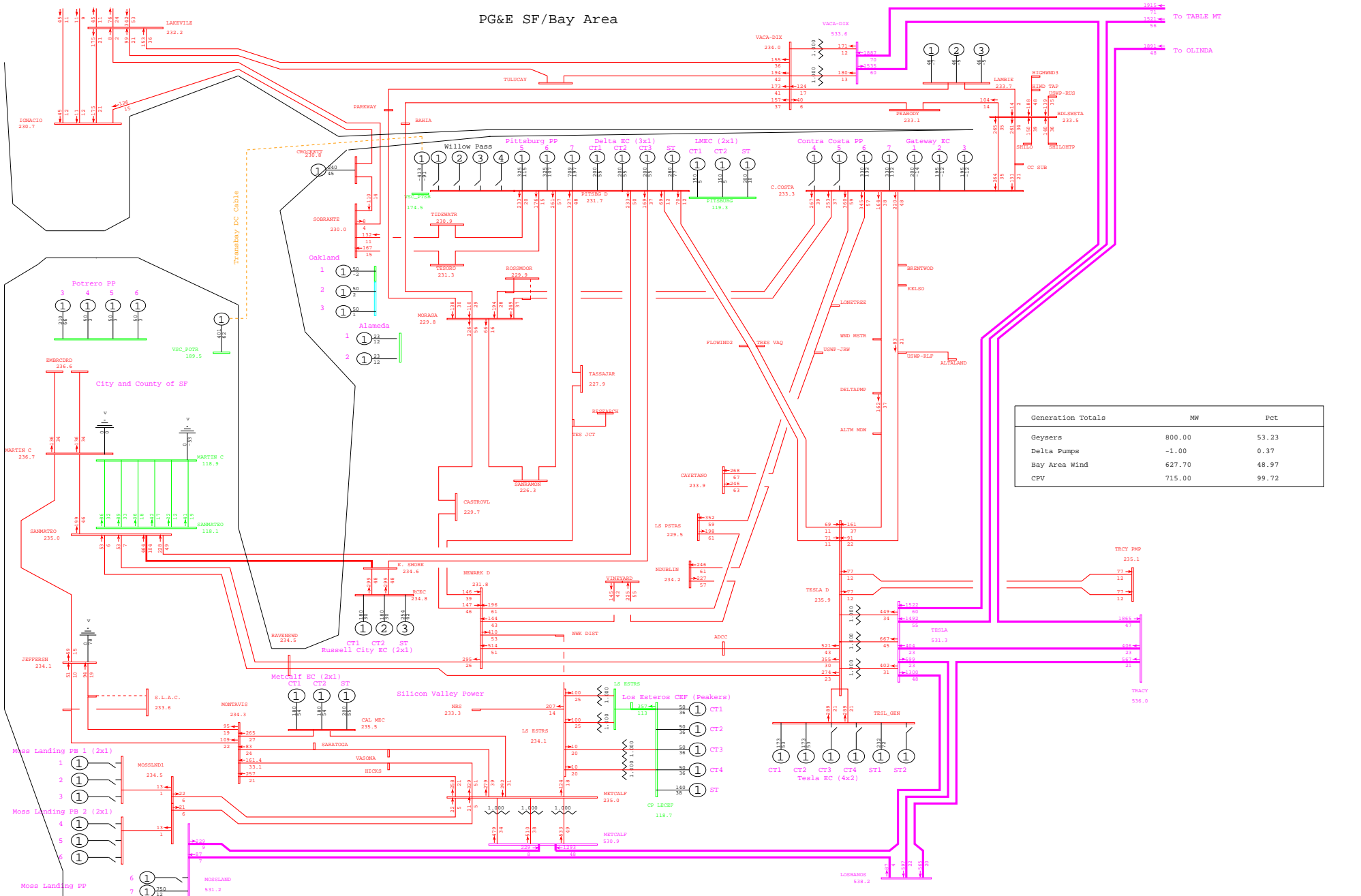


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 NEWARK - LAWRENCE - MOFFET - LOCKHEED&NEWARK - AMD - APPLIED MATERIALS 115k
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 537

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



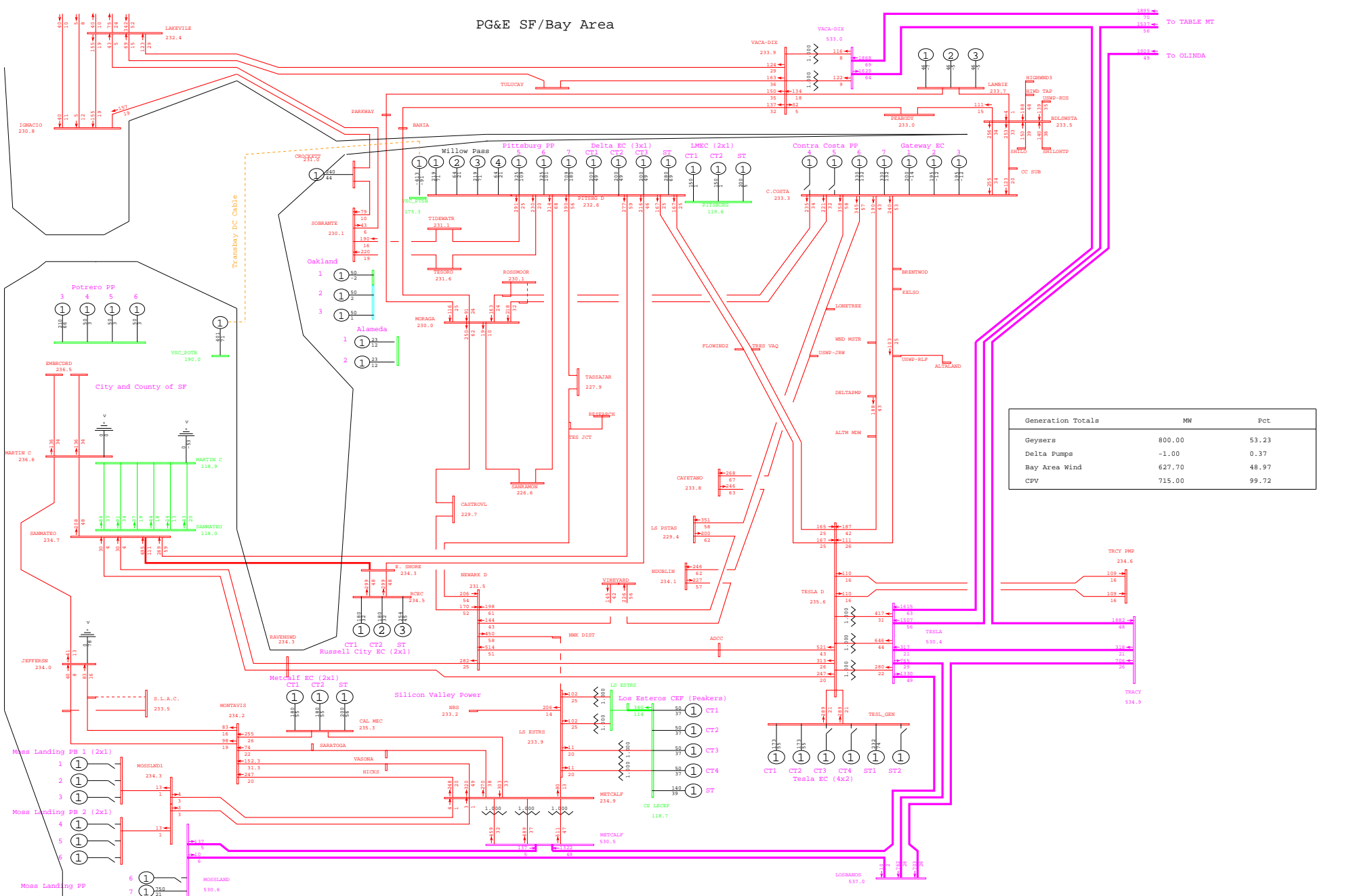
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:55 2008 wlopssv2-2013mrnt_pre_ptsb-538.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 NEWARK - MILPITAS&NEWARK - DIXON LANDING 115kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 538


MW/% rate
 bayarea_2013_PGE_v4.0r.w
 Rating = 2

PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

General Electric International, Inc. PSLF Program Fri Sep 26 20:50:54 2008 wlopssv2-2013mrnt_pst_ptsb-538.sav

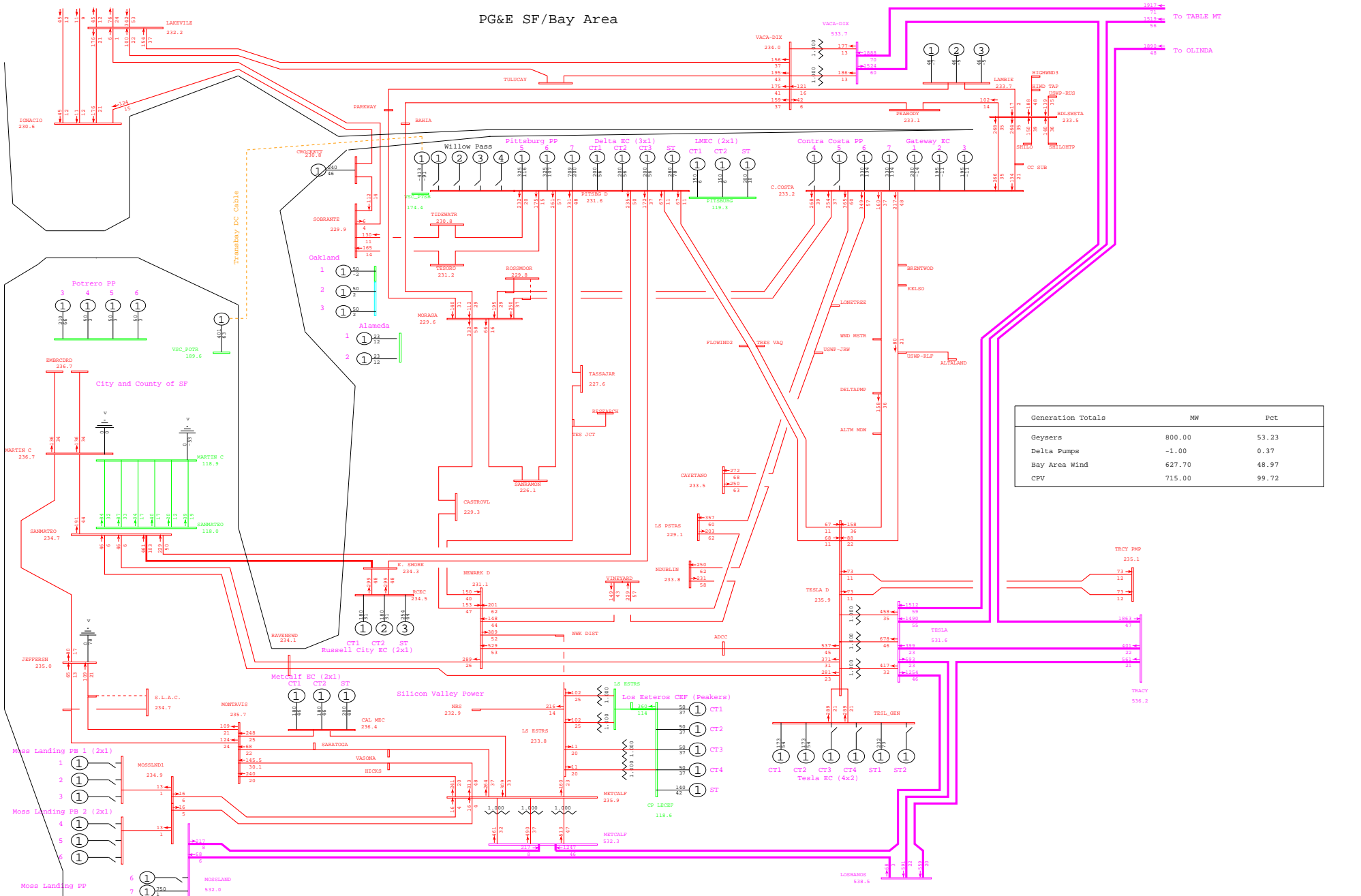


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 NEWARK - MILPITAS&NEWARK - DIXON LANDING 115kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 538

MW/% rate
 bayarea_2013_PGE_v4.0.rtf
 Rating = 2

PG&E SF/Bay Area



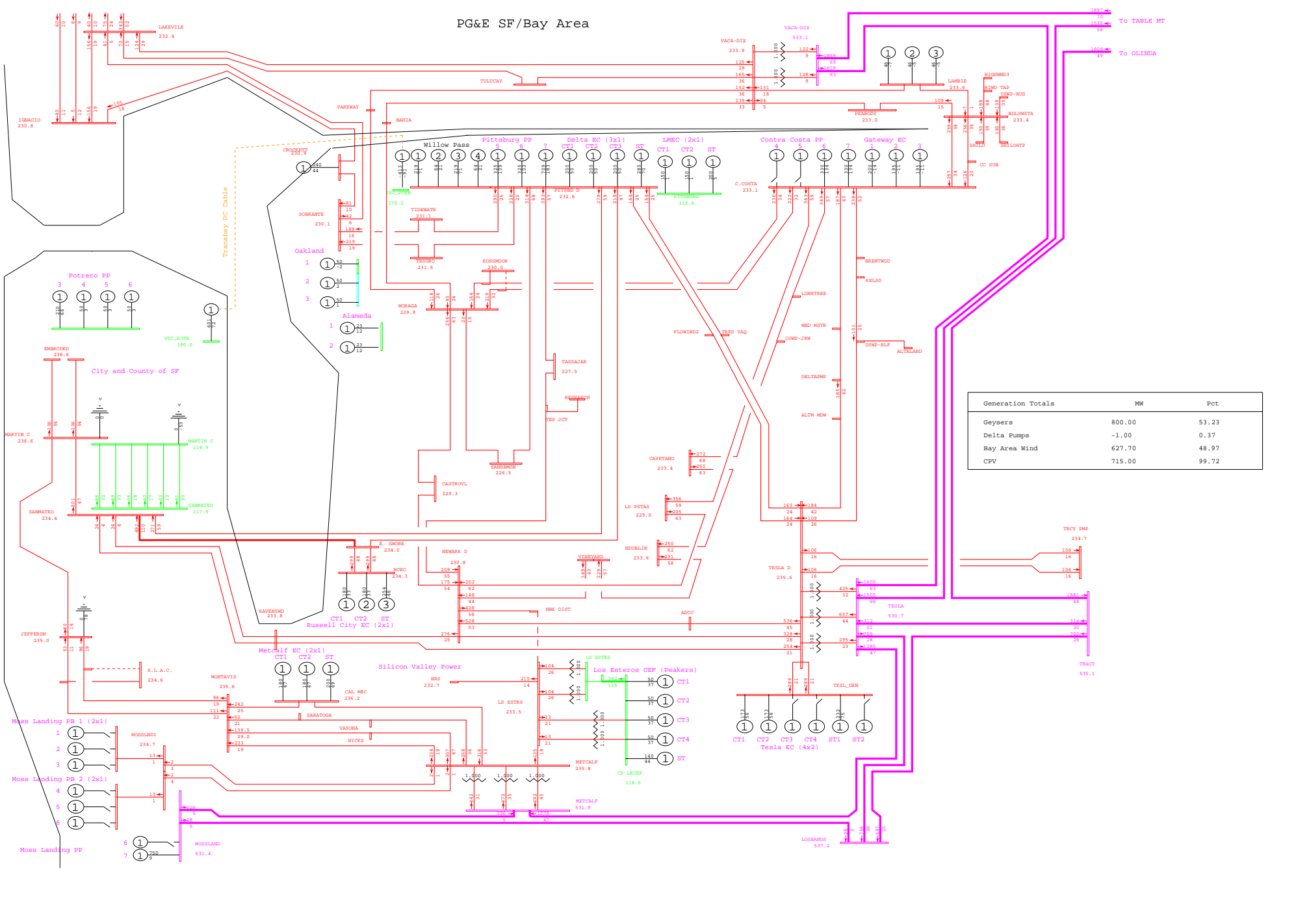
General Electric International, Inc. PSLF Program Fri Sep 26 20:53:55 2008 wlopssv2-2013mrnt_pre_ptsb-540.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 MONTA VISTA - PHILLIPS - LAWRENCE&MONTA VISTA - BRITTON 115kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 540

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



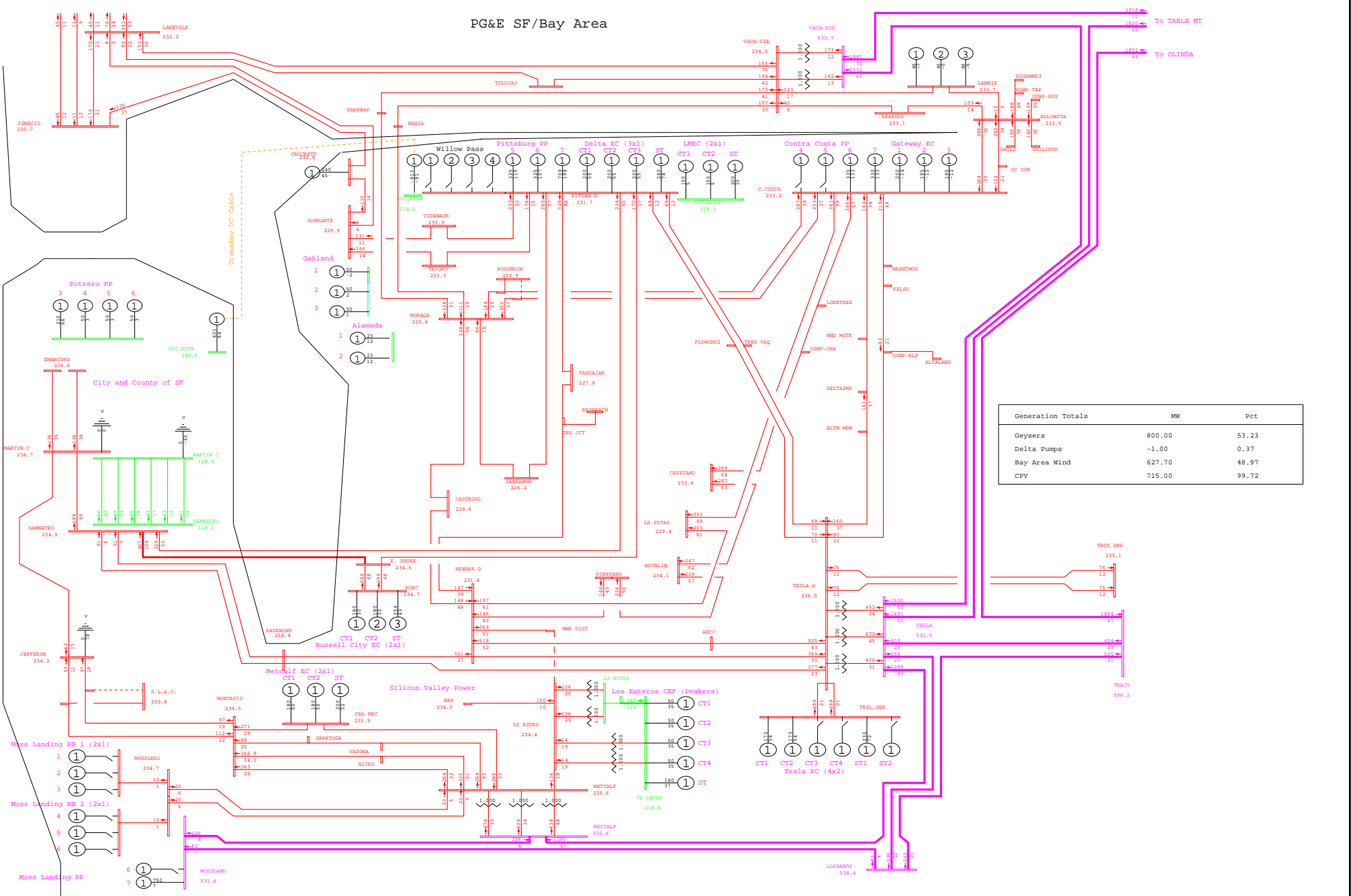
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:55 2008 wlopssv2-2013mrnt_pst_ptsb-540.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 MONTA VISTA - PHILLIPS - LAWRENCE&MONTA VISTA - BRITTON 115kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 540

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

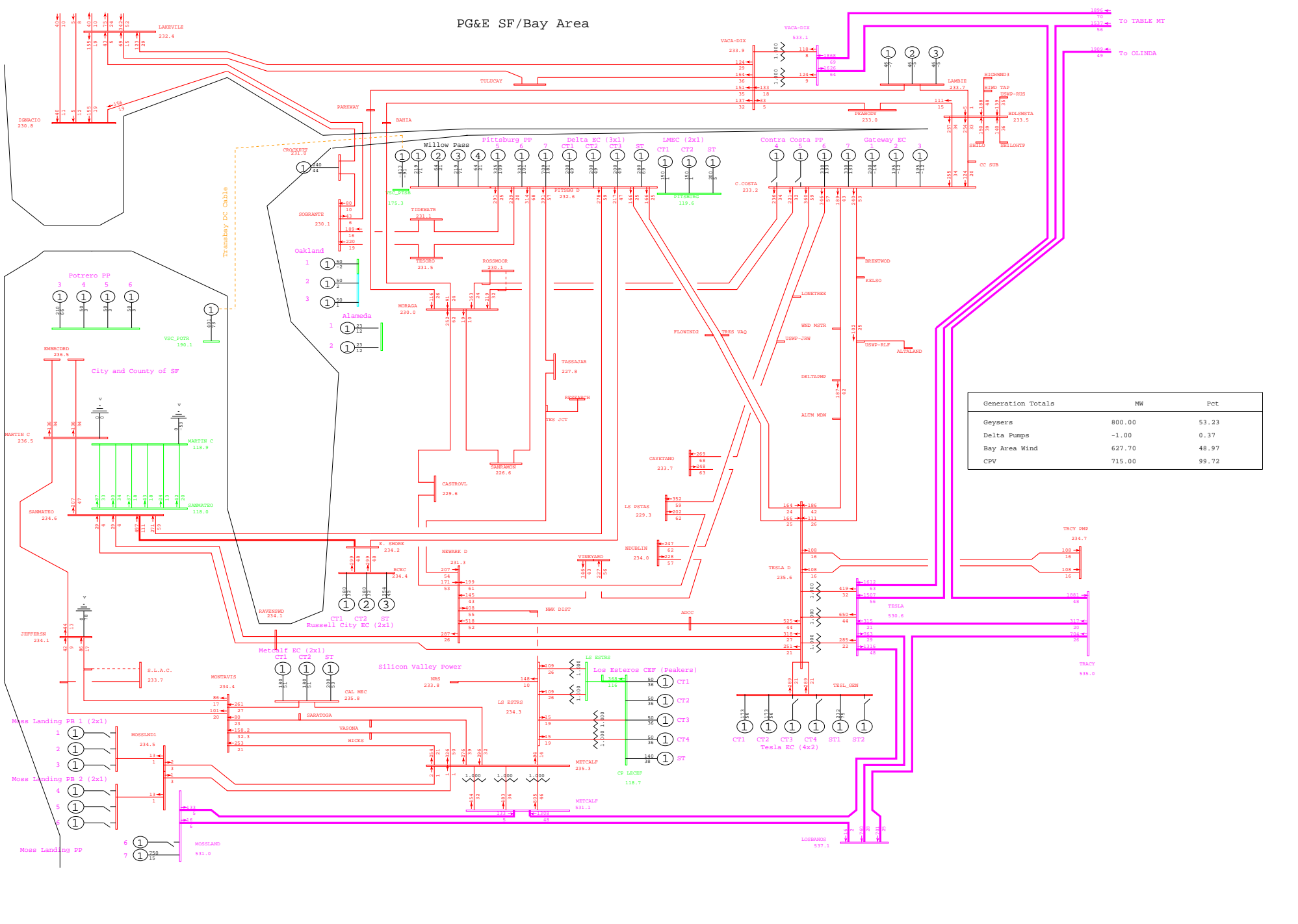
PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72



PG&E SF/Bay Area



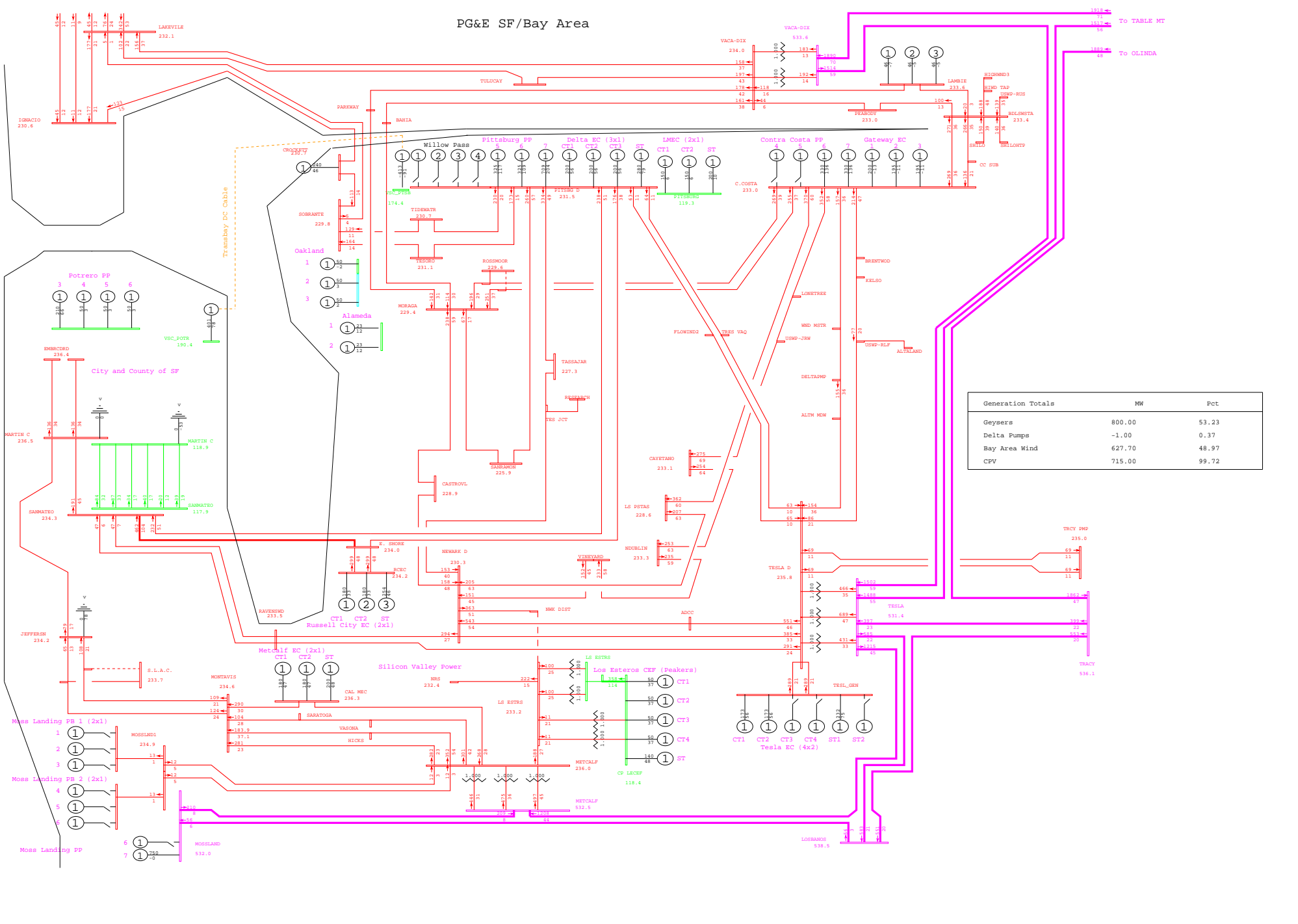
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:56 2008 wlopssv2-2013mrnt_pst_ptsb-542.sav



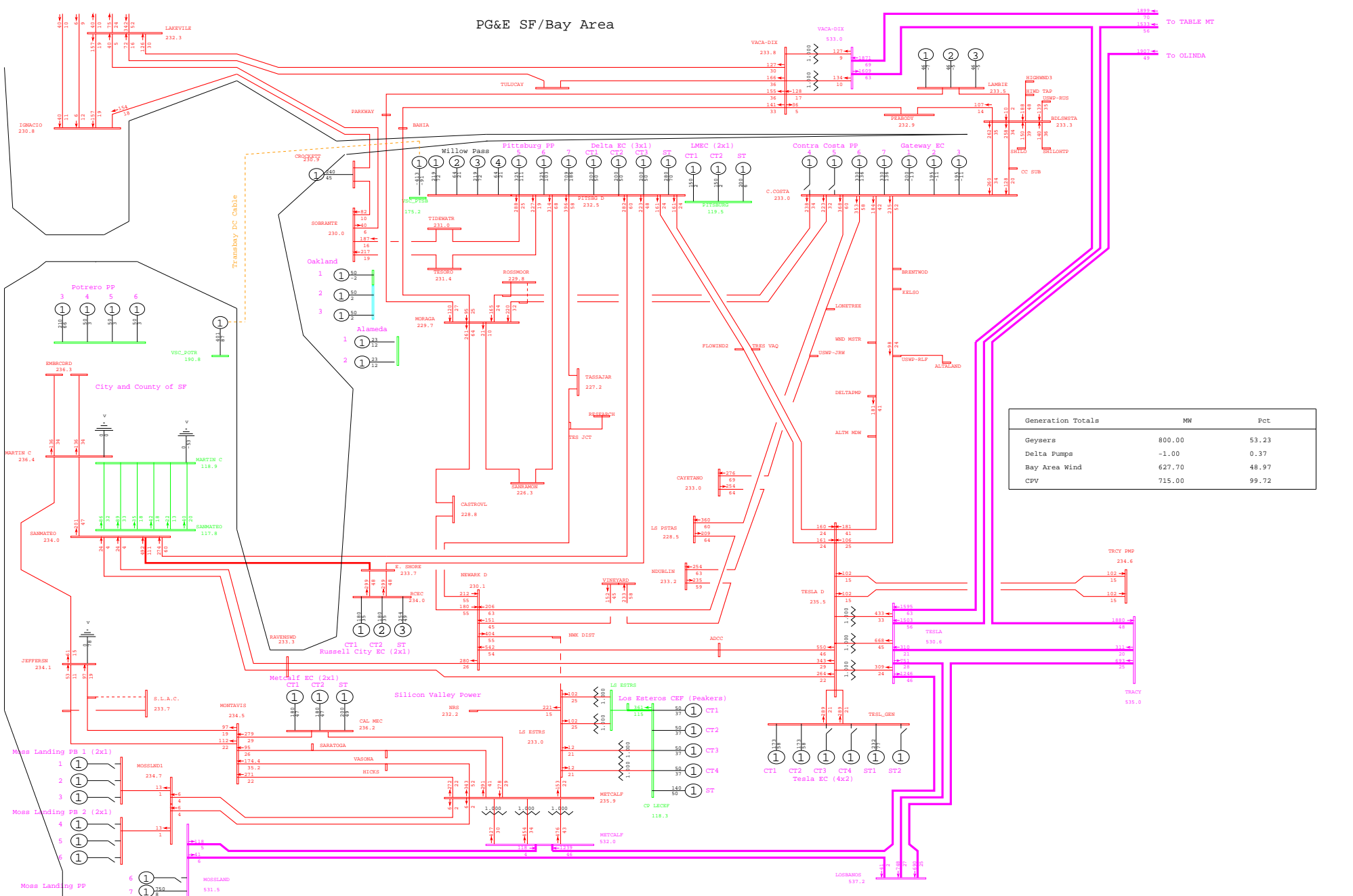
PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 NORTHERN - SCOTT #1 & #2 115kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 542
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



PG&E SF/Bay Area



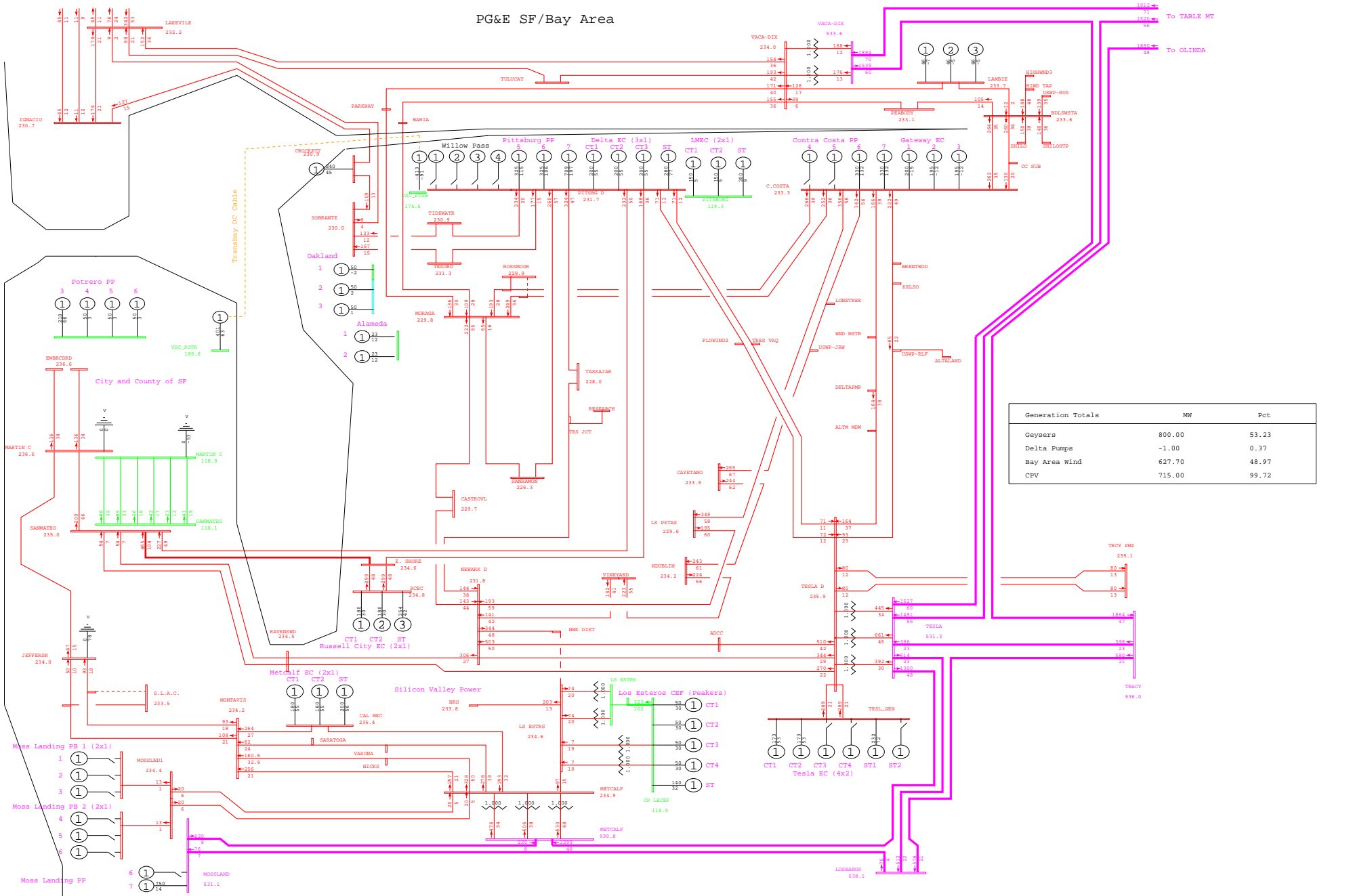
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:58 2008 wlopssv2-2013mrnt_pst_ptsb-546.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 METCALF E - SWIFT&METCALF E - PIERCY 115kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 546
 MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



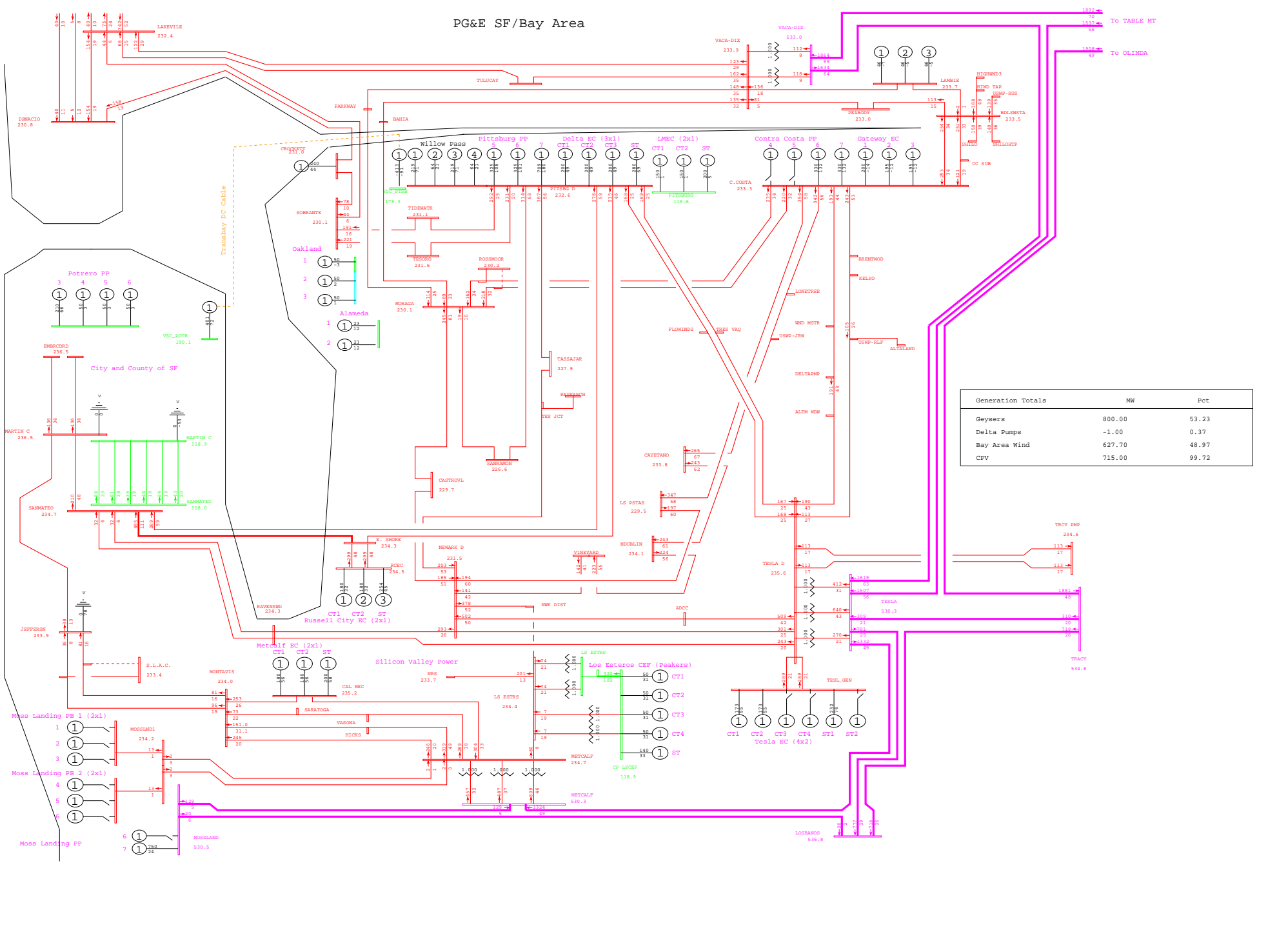
General Electric International, Inc. PSLF Program Fri Sep 26 20:54:04 2008 wlopssv2-2013mrnt_pre_ptsb-548.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 TRIBLE - SAN JOSE B&KIFER - FMC-SAN JOSE B 115KV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 548
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



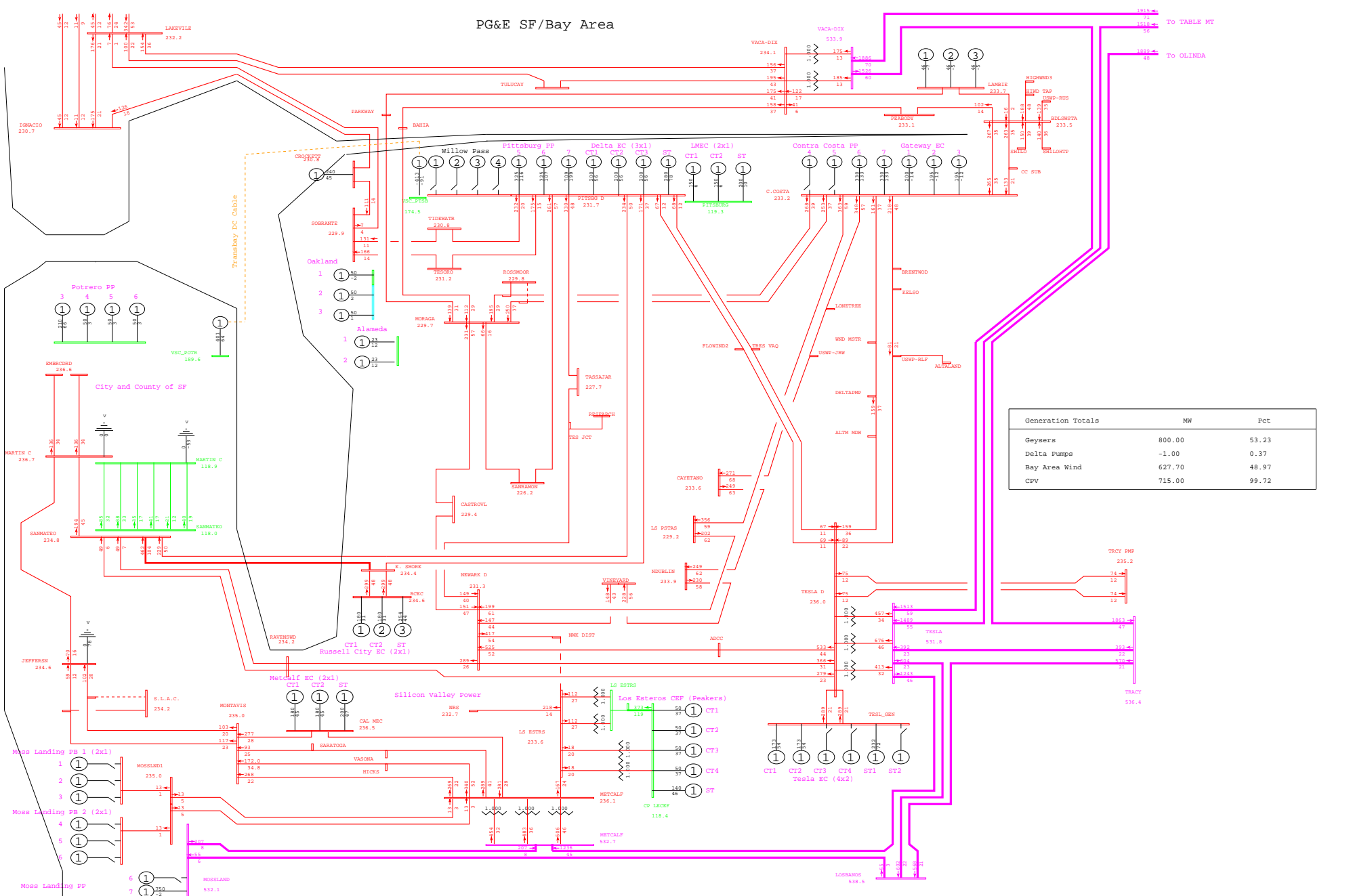
General Electric International, Inc. PSLF Program Fri Sep 26 20:50:59 2008 wlopssv2-2013mrnt_pst_ptsb-548.sav




PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 TRIBLE - SAN JOSE B&KIFER - FMC-SAN JOSE B 115KV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 548
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



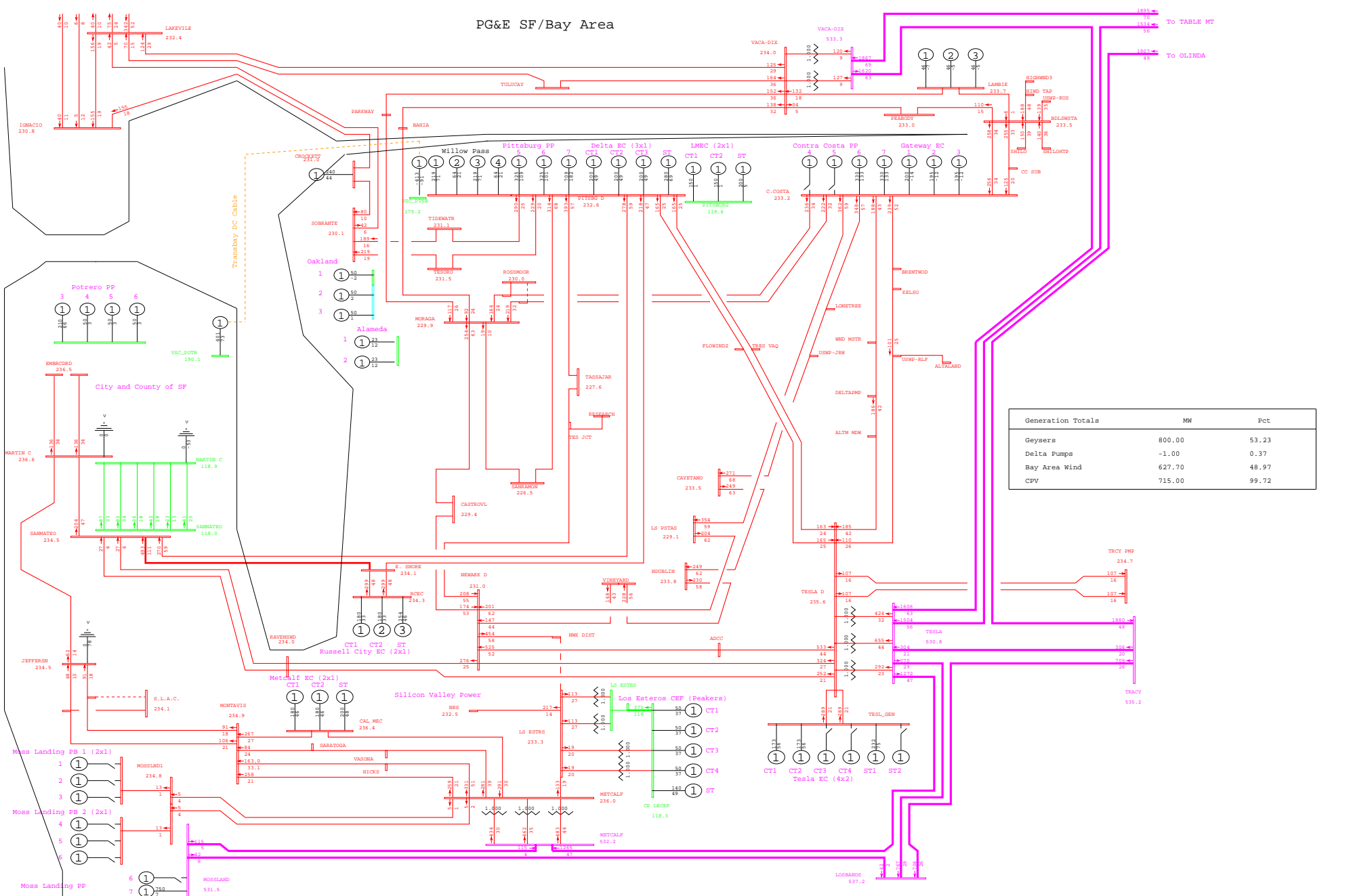
General Electric International, Inc. PSLF Program Fri Sep 26 20:54:09 2008 wlopcsv2-2013mrnt_pre_ptsb-550.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 METCALF - EVERGREEN - STONE - GE #2&METCALF-EVERGREEN #1 115kV LINES
 wlopcsv2.pfp, STEADY STATE, CASE NUMBER 550

MW/% rate
 bayarea_2013_PGE_v4.0.rtf
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:51:00 2008 wloppsv2-2013mrnt_pst_ptsb-550.sav

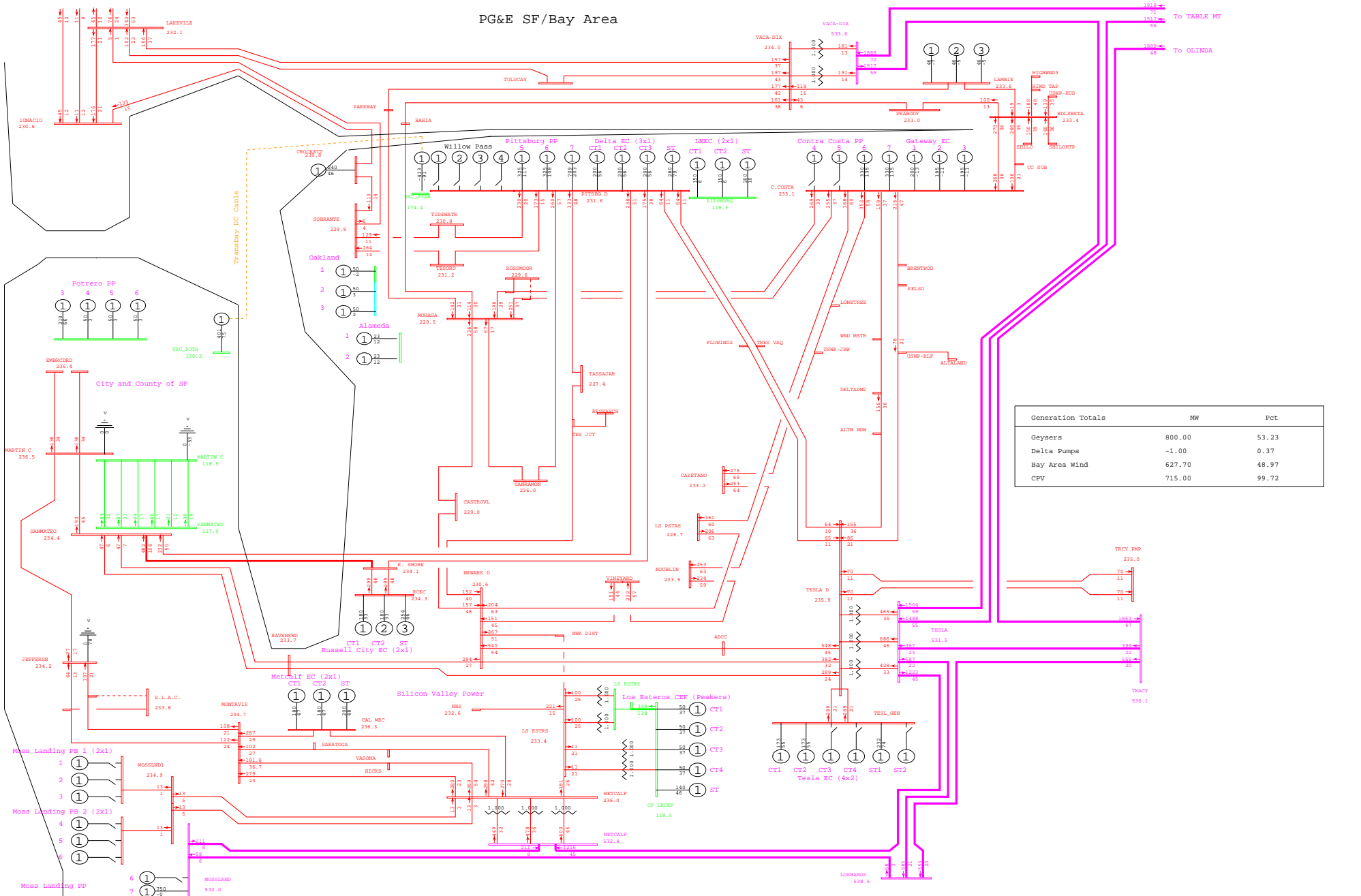


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

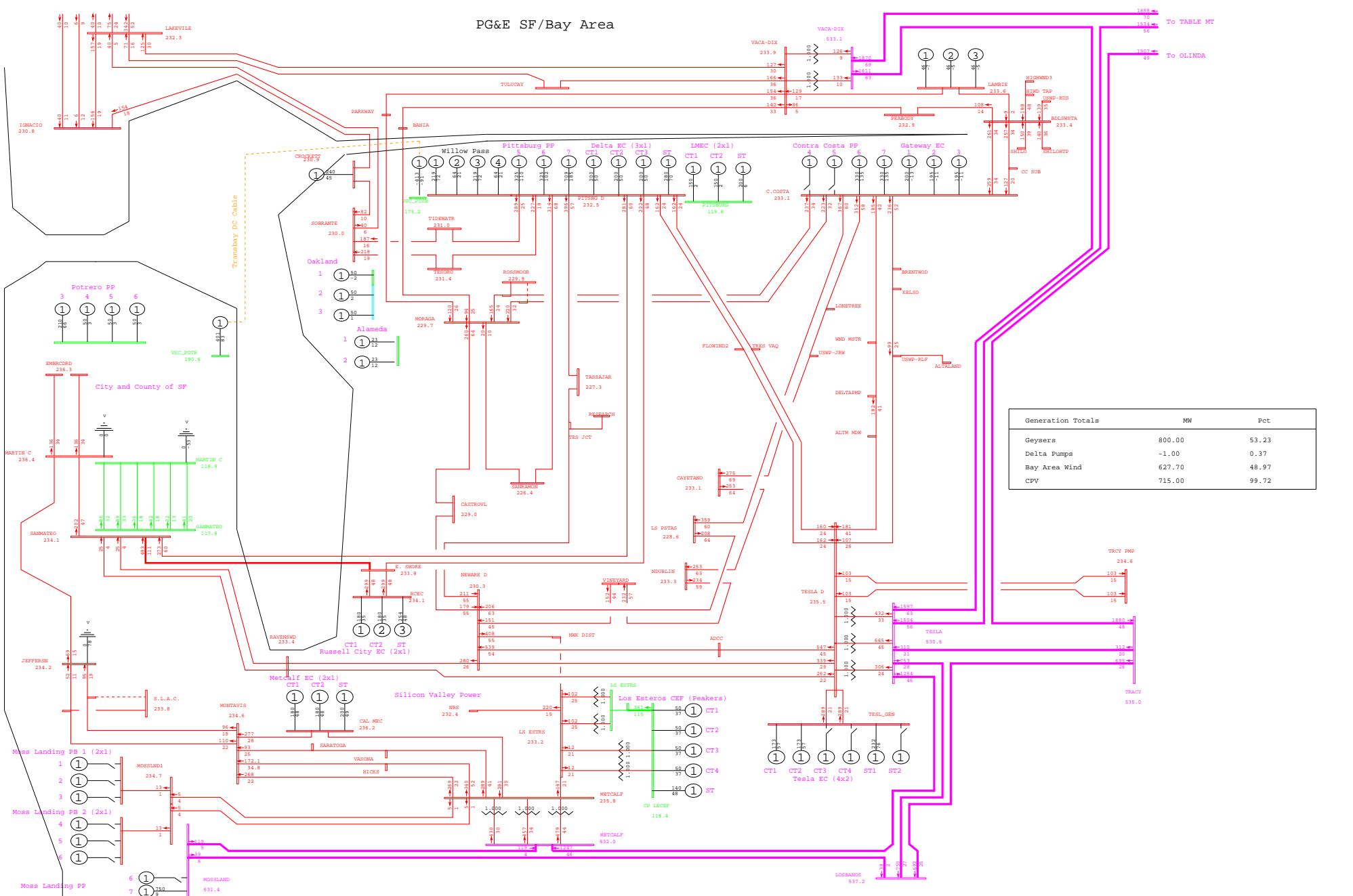
N-2 METCALF - EVERGREEN - STONE - GE #2&METCALF-EVERGREEN #1 115kV LINES
 wloppsv2.pfp, STEADY STATE, CASE NUMBER 550

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:51:01 2008 wlopssv2-2013mrnt_pst_ptsb-553.sav

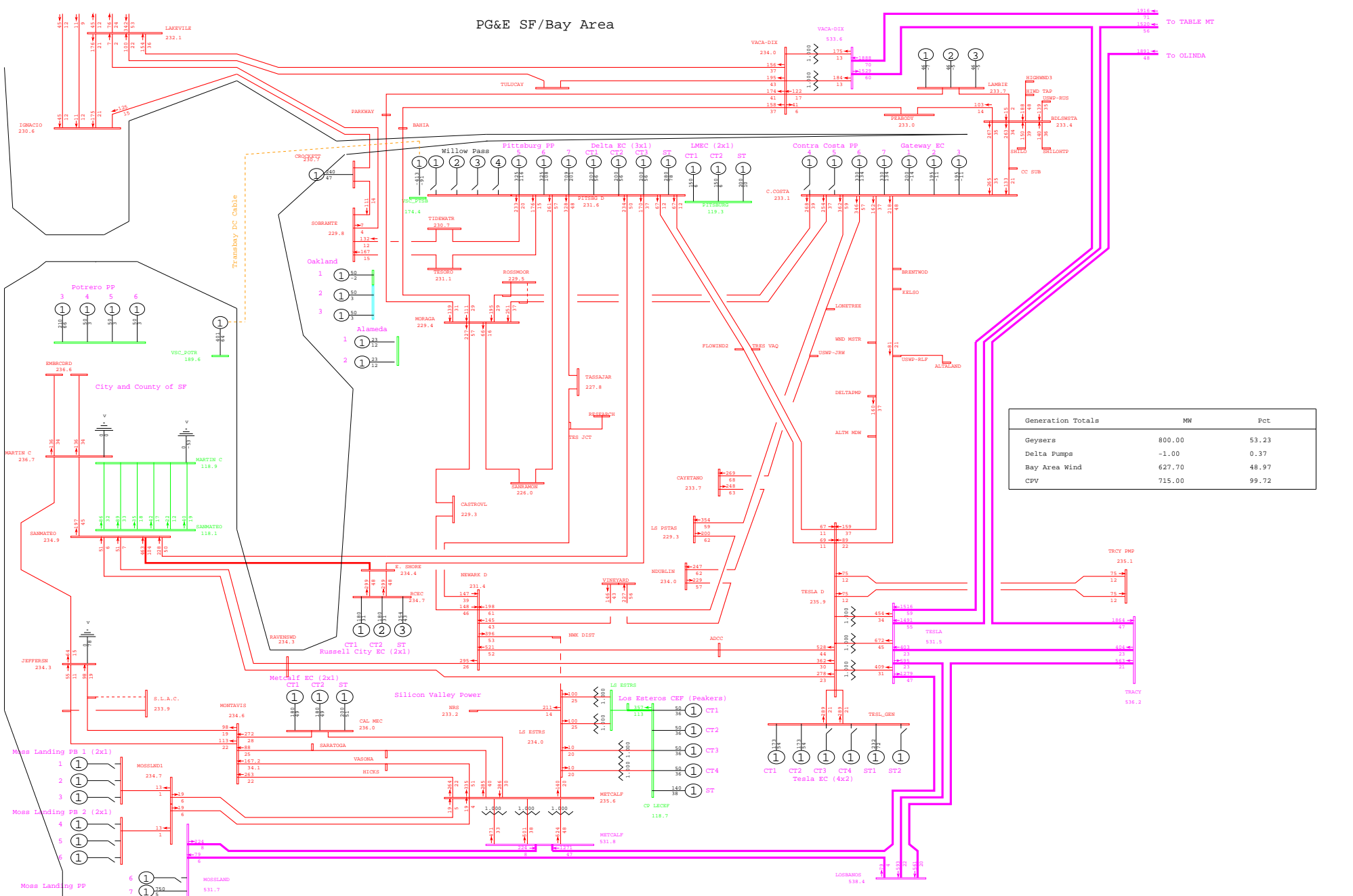


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


N-2 METCALF E - SWIFT&PIERCY - MCKEE 115kV LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 553

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



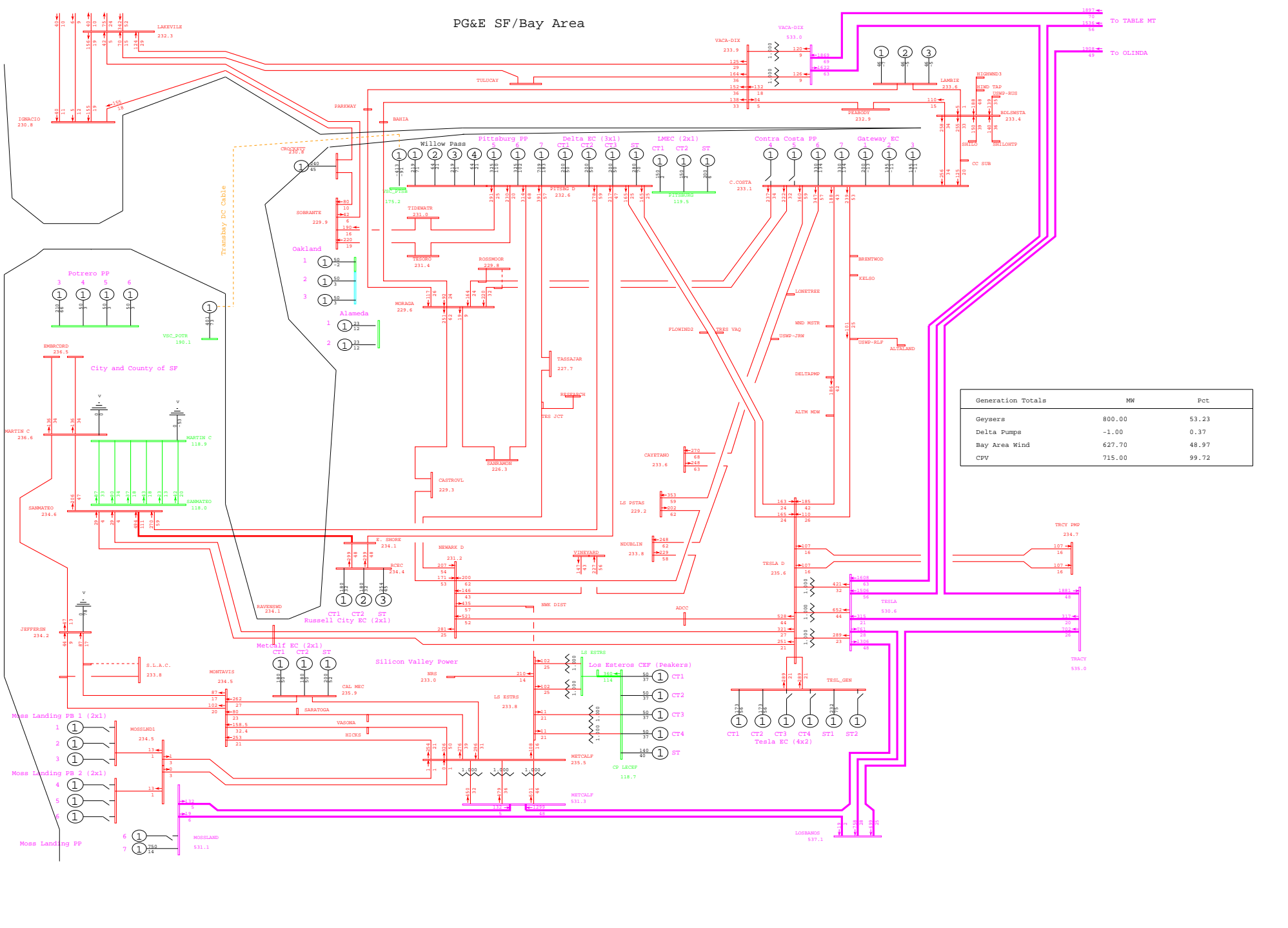
General Electric International, Inc. PSLF Program Fri Sep 26 20:54:19 2008 wlopssv2-2013mrnt_pre_ptsb-555.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

N-2 MORAGA - OAKLAND J & MORAGA - SAN LEANDRO 115kV #3 LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 555

MW/% rate
 bayarea_2013_PGE_v4.0.rtf
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:51:02 2008 wlopssv2-2013mrnt_pst_ptsb-555.sav

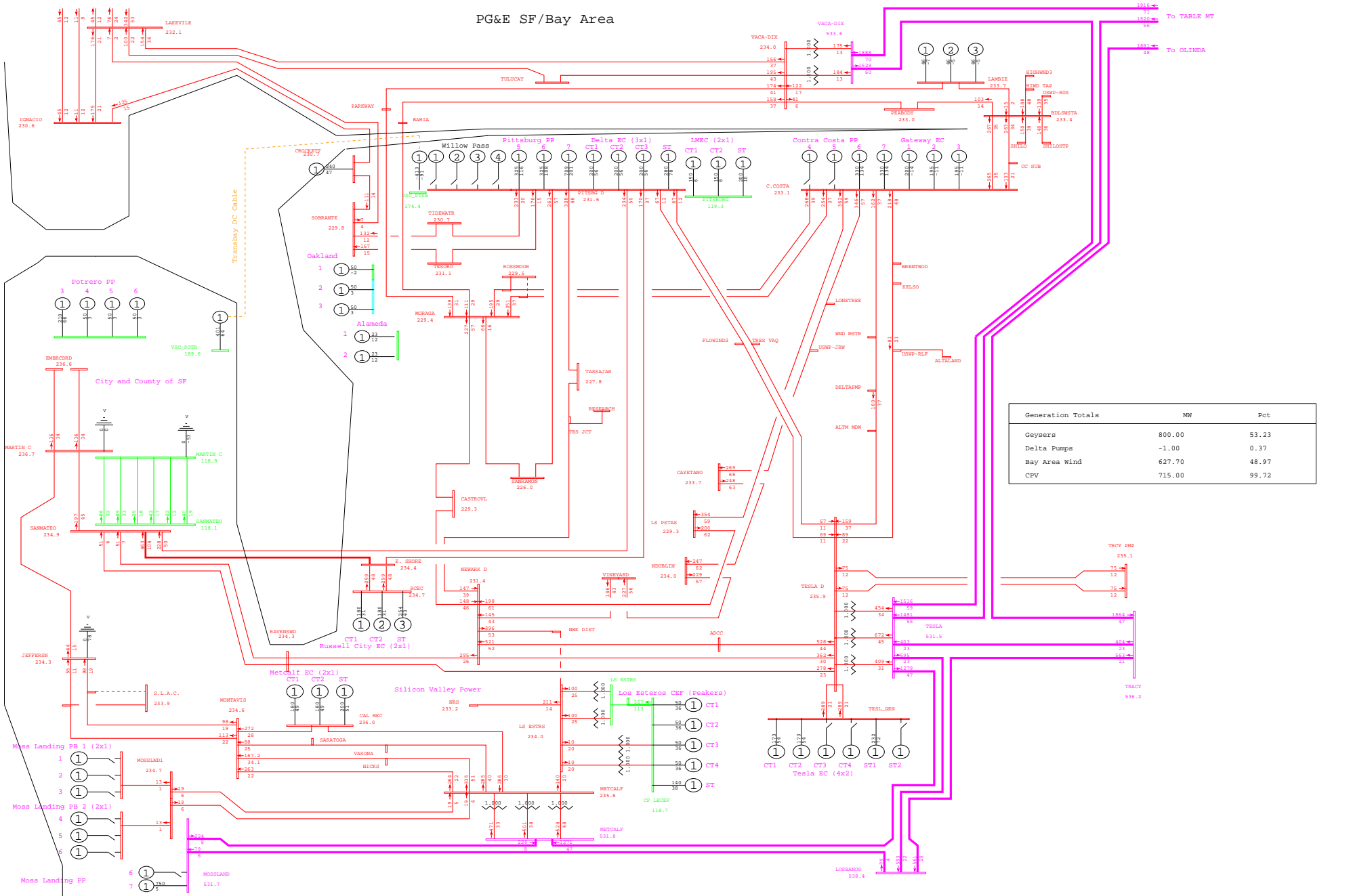


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

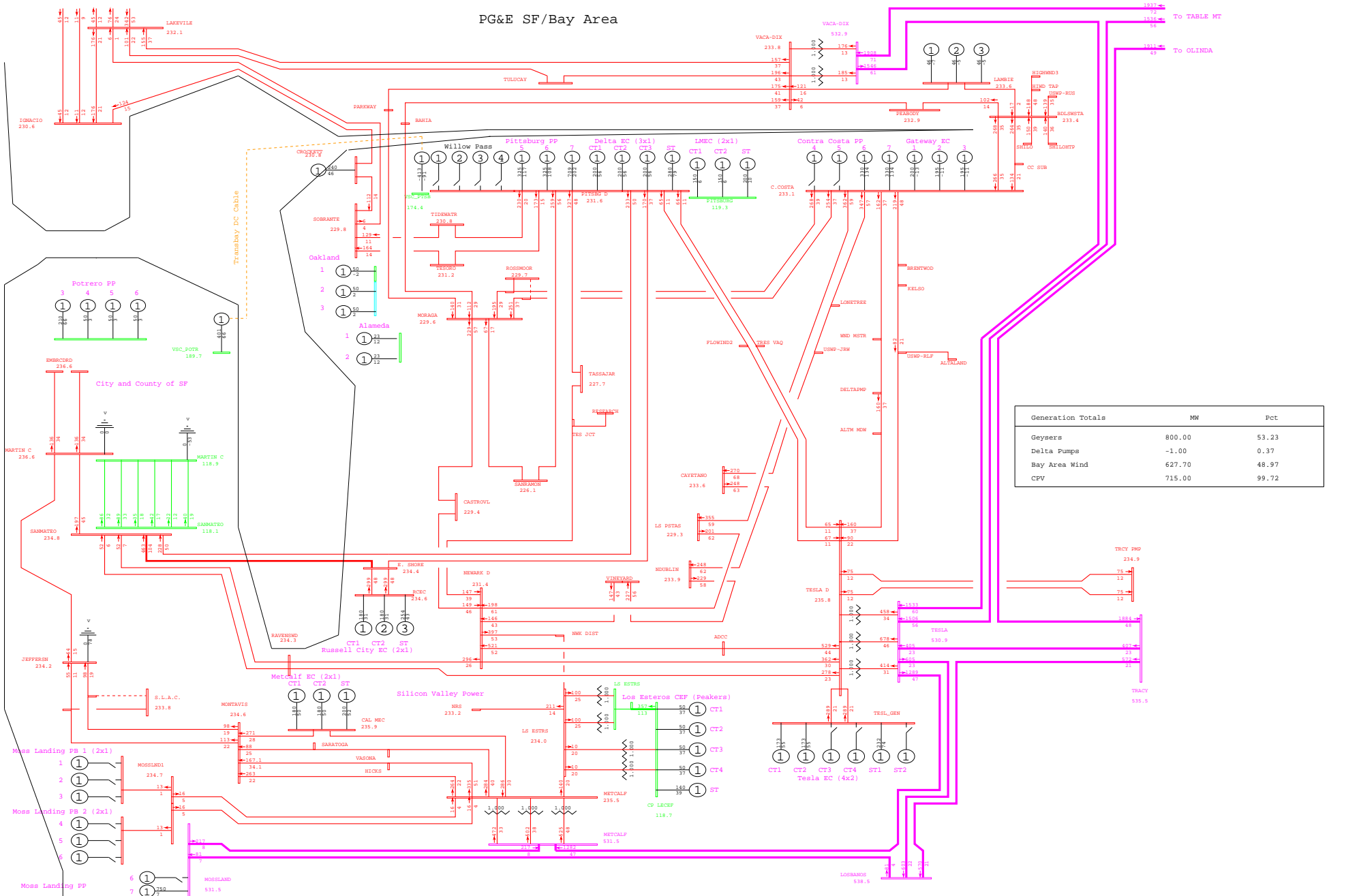
N-2 MORAGA - OAKLAND J & MORAGA - SAN LEANDRO 115kV #3 LINES
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 555

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

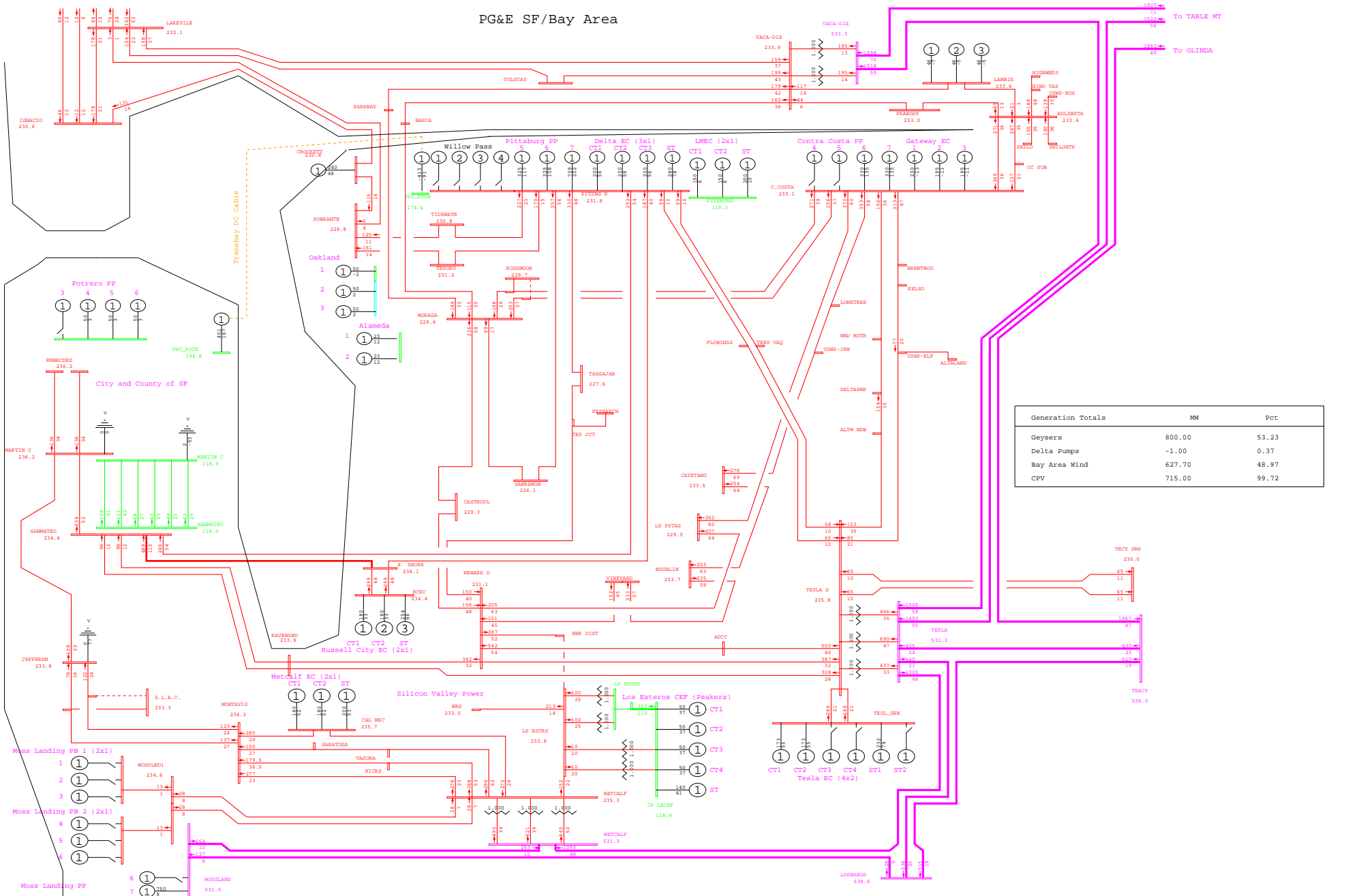
General Electric International, Inc. PSLF Program Fri Sep 26 20:51:03 2008 wlopssv2-2013mrnt_pst_ptsb-576.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

G-1 WILLOW PASS PLANT
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 576
 MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



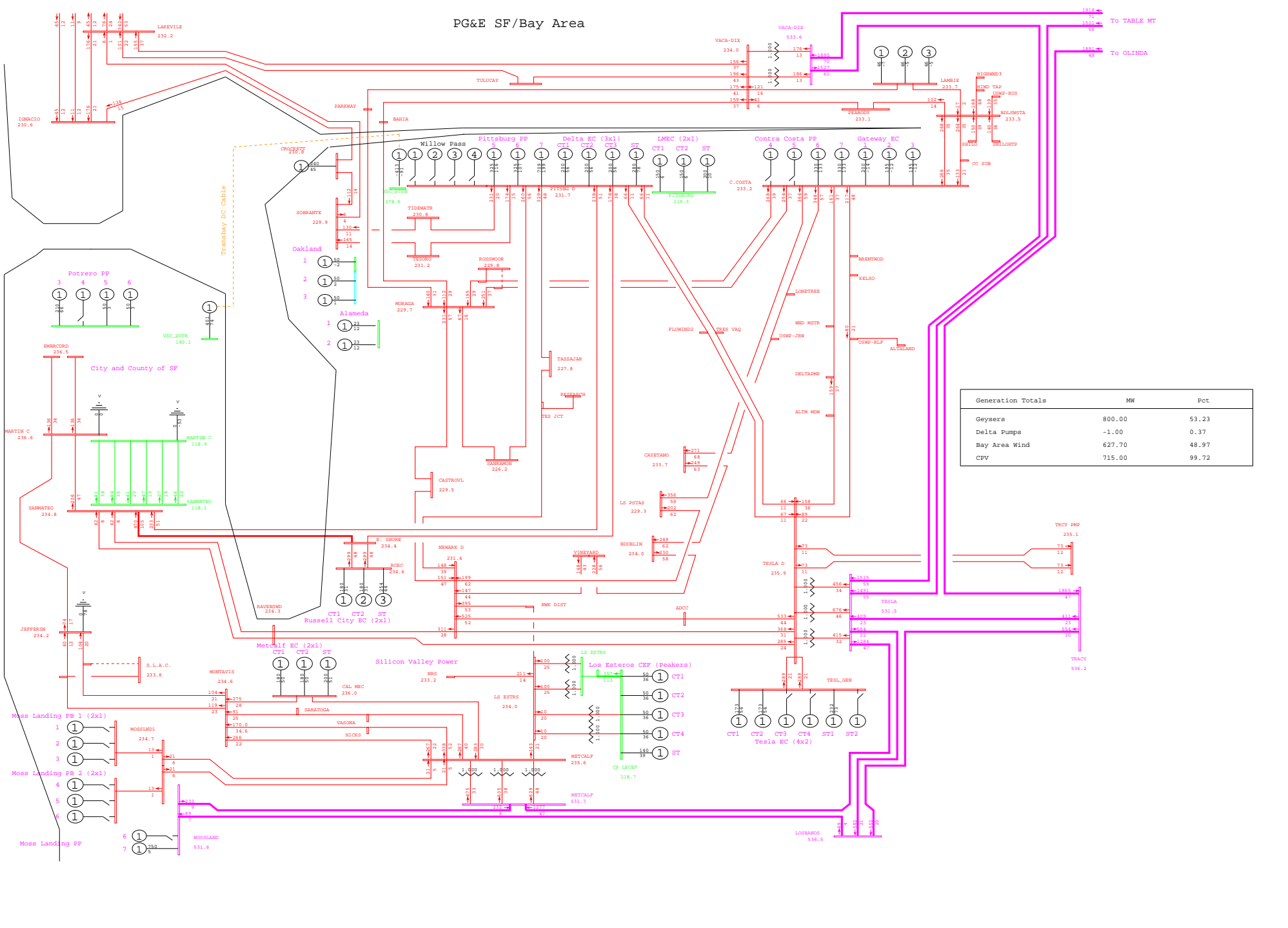
General Electric International, Inc. PSLF Program Fri Sep 26 20:54:26 2008 wlopssv2-2013mrnt_pre_ptsb-615.sav




PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

G-1 POTRERO #3
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 615
 MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:54:32 2008 wlopssv2-2013mrnt_pre_ptsb-616.sav

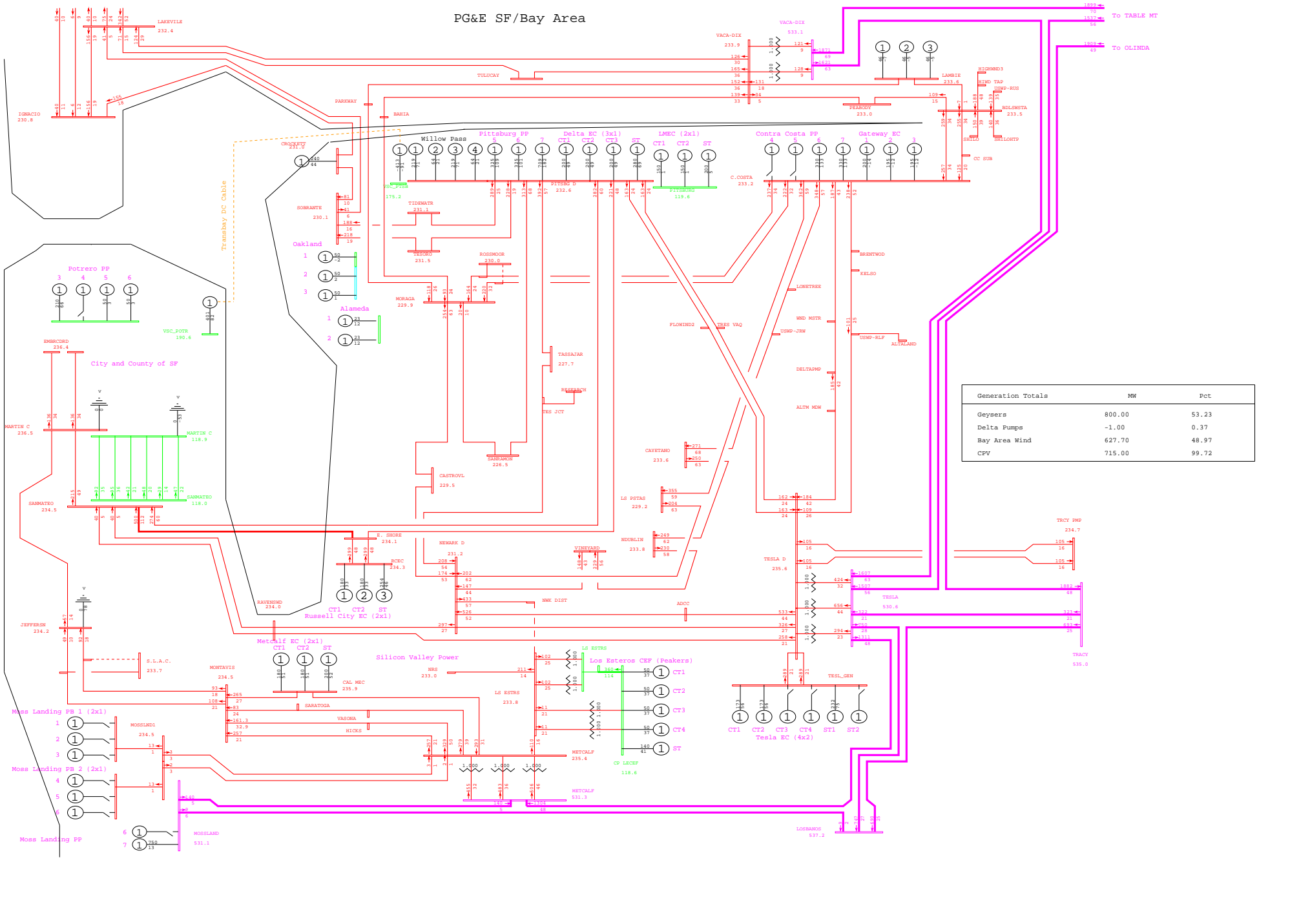


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


G-1 POTRERO #4 CT
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 616

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



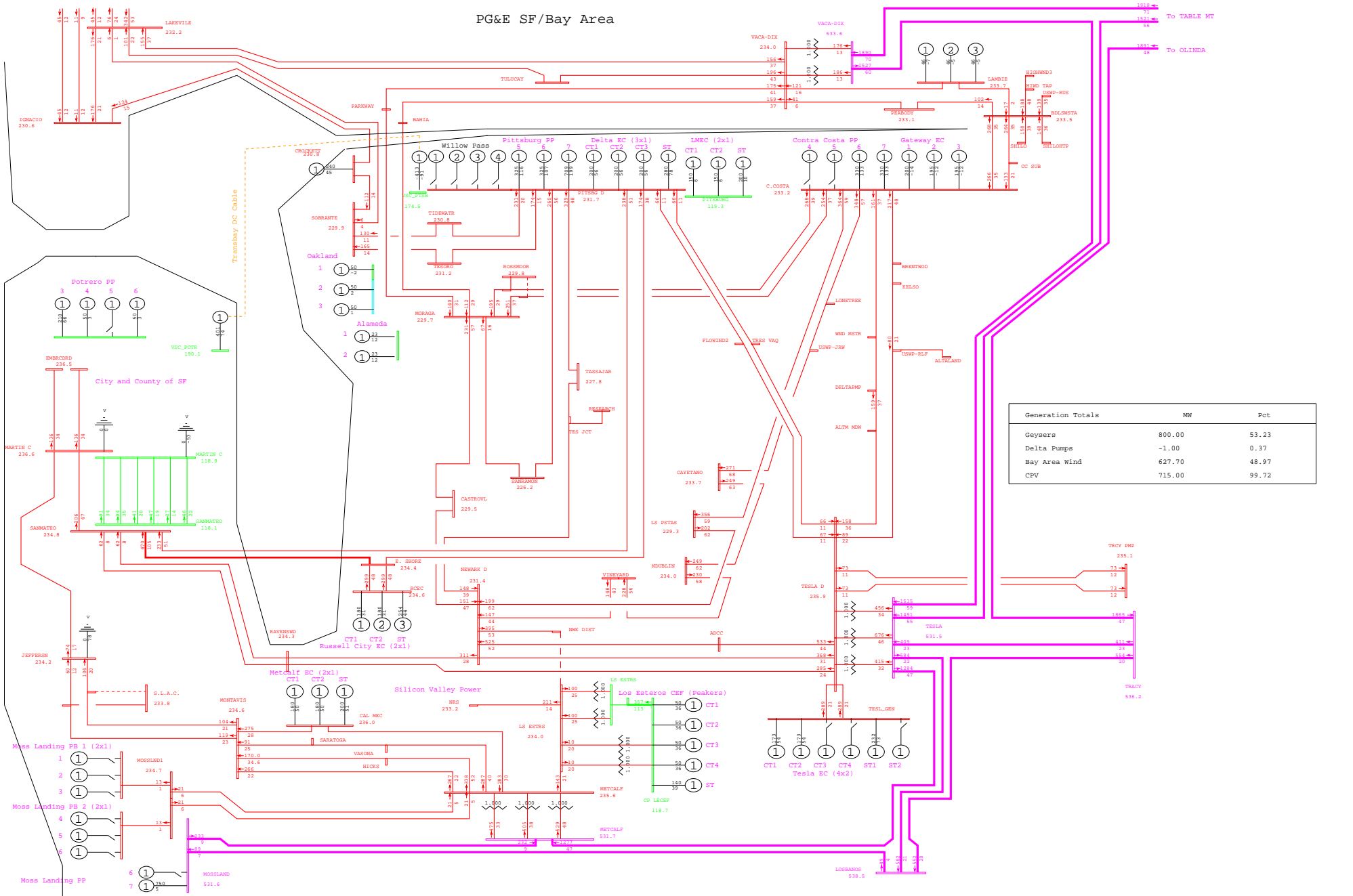
General Electric International, Inc. PSLF Program Fri Sep 26 20:51:05 2008 wlopssv2-2013mrnt_pst_ptsb-616.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

G-1 POTRERO #4 CT
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 616

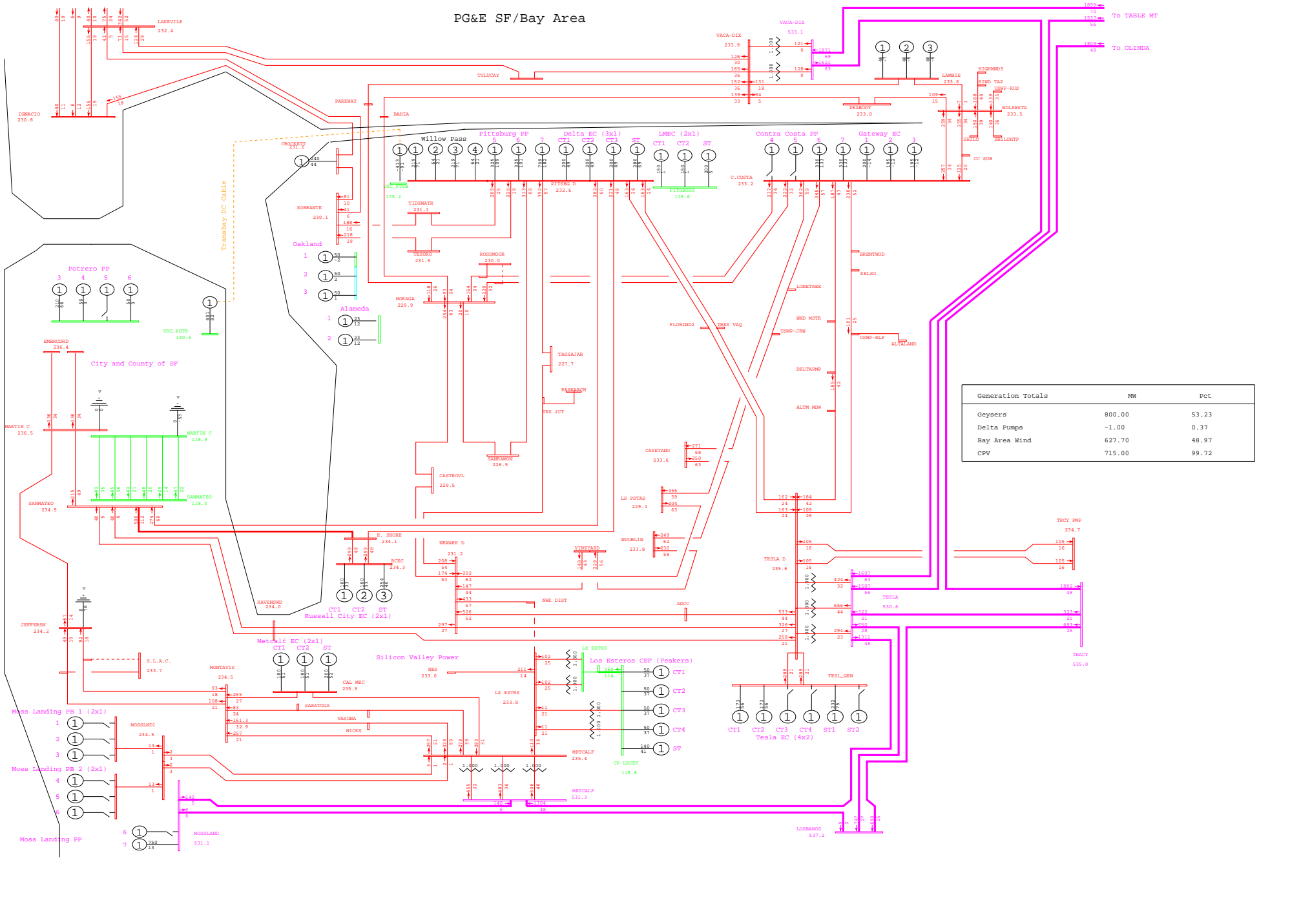
MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area




Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

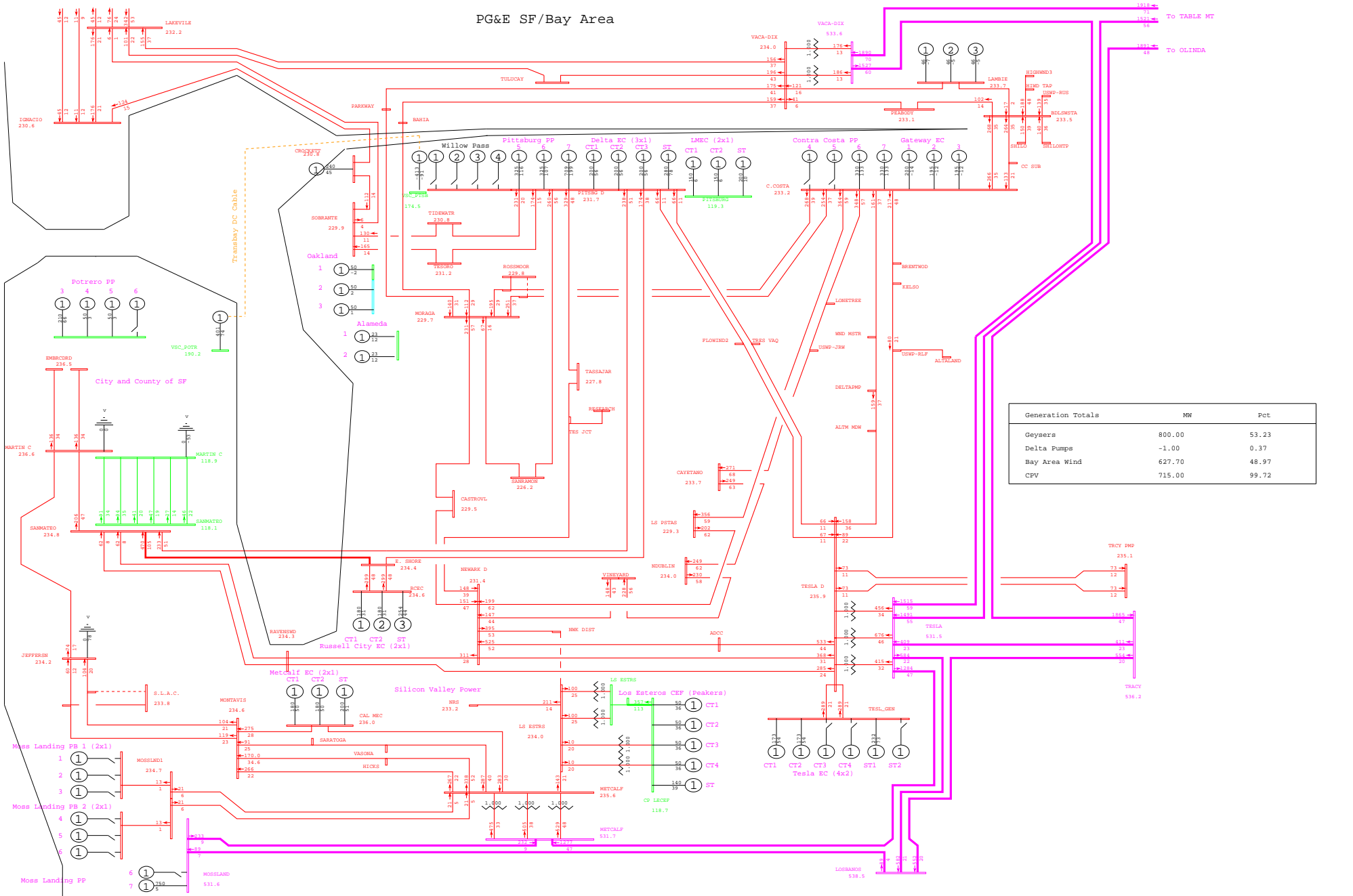
General Electric International, Inc. PSLF Program Fri Sep 26 20:51:07 2008 wlopssv2-2013mrnt_pst_ptsb-617.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)


G-1 POTRERO #5 CT
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 617

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



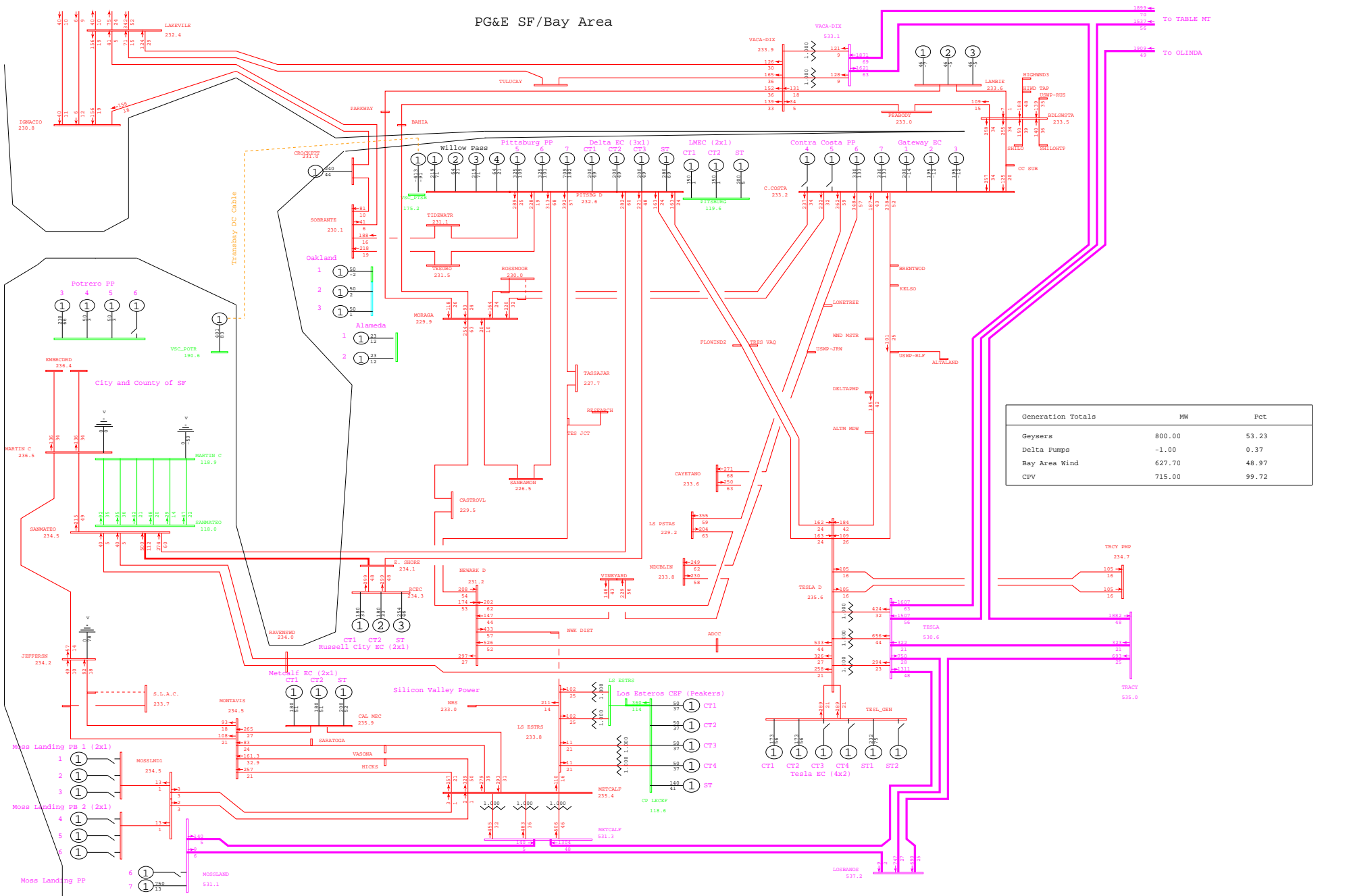
General Electric International, Inc. PSLF Program Fri Sep 26 20:54:45 2008 wlopssv2-2013mrnt_pre_ptsb-618.sav


 PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

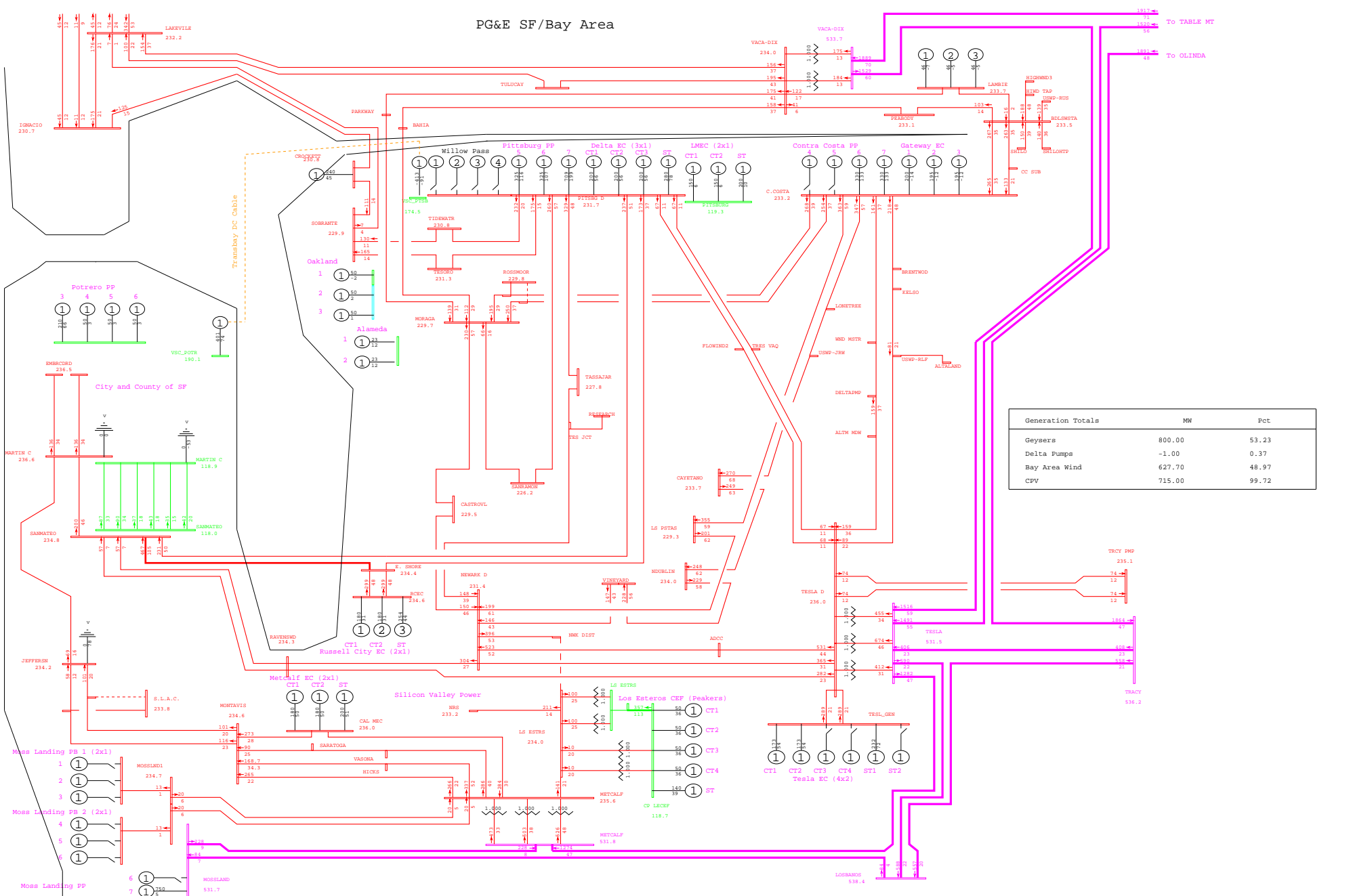
G-1 POTRERO #6 CT
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 618

MW/% rate
 bayarea_2013_PGE_v4.0.rtf
 Rating = 2

PG&E SF/Bay Area



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:54:53 2008 wlopssv2-2013mrnt_pre_ptsb-622.sav

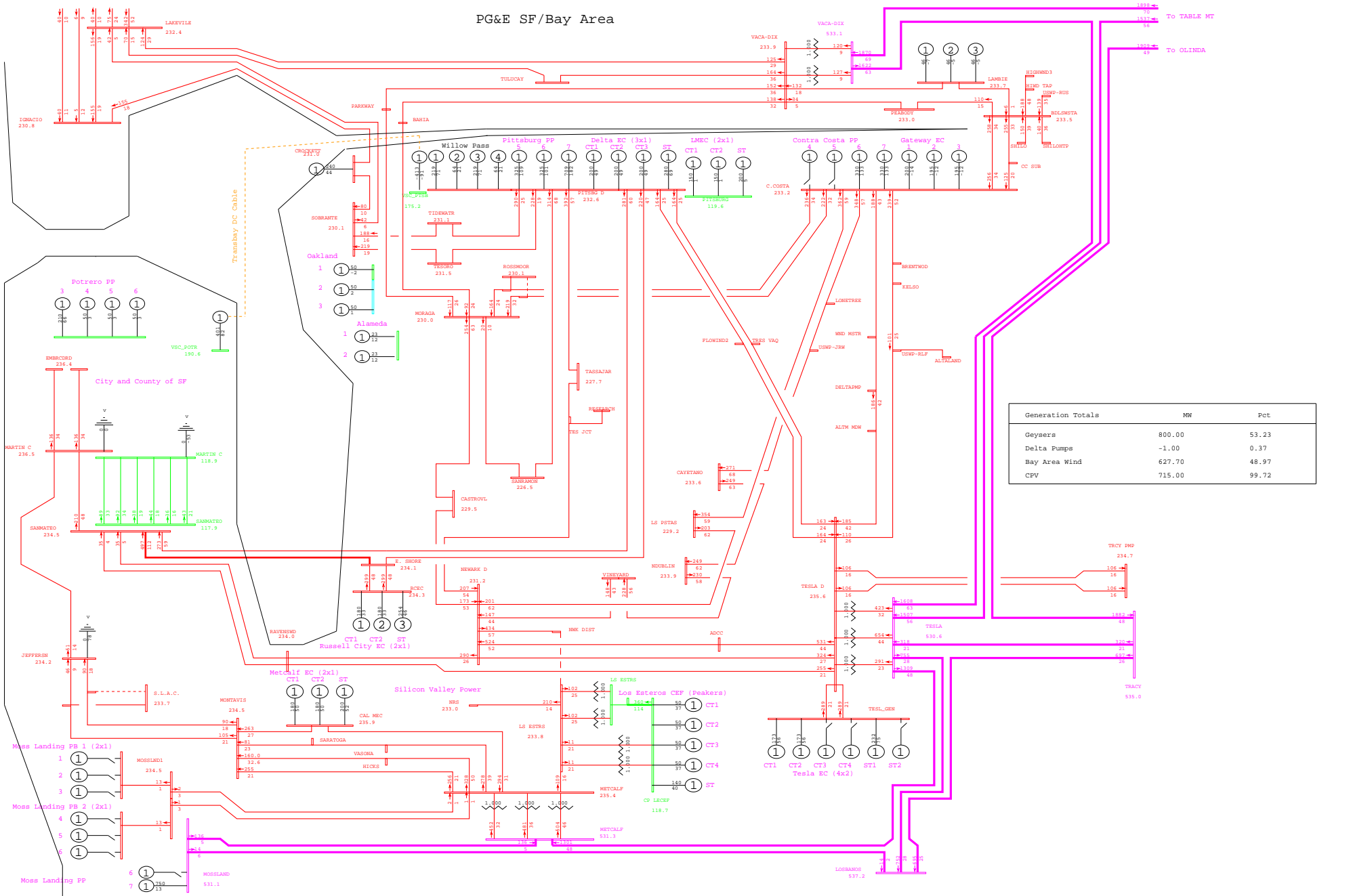


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

G-1 UNITED COGEN SFQF
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 622

MW/% rate
 bayarea_2013_PGE_v4.dcrw
 Rating = 2

PG&E SF/Bay Area



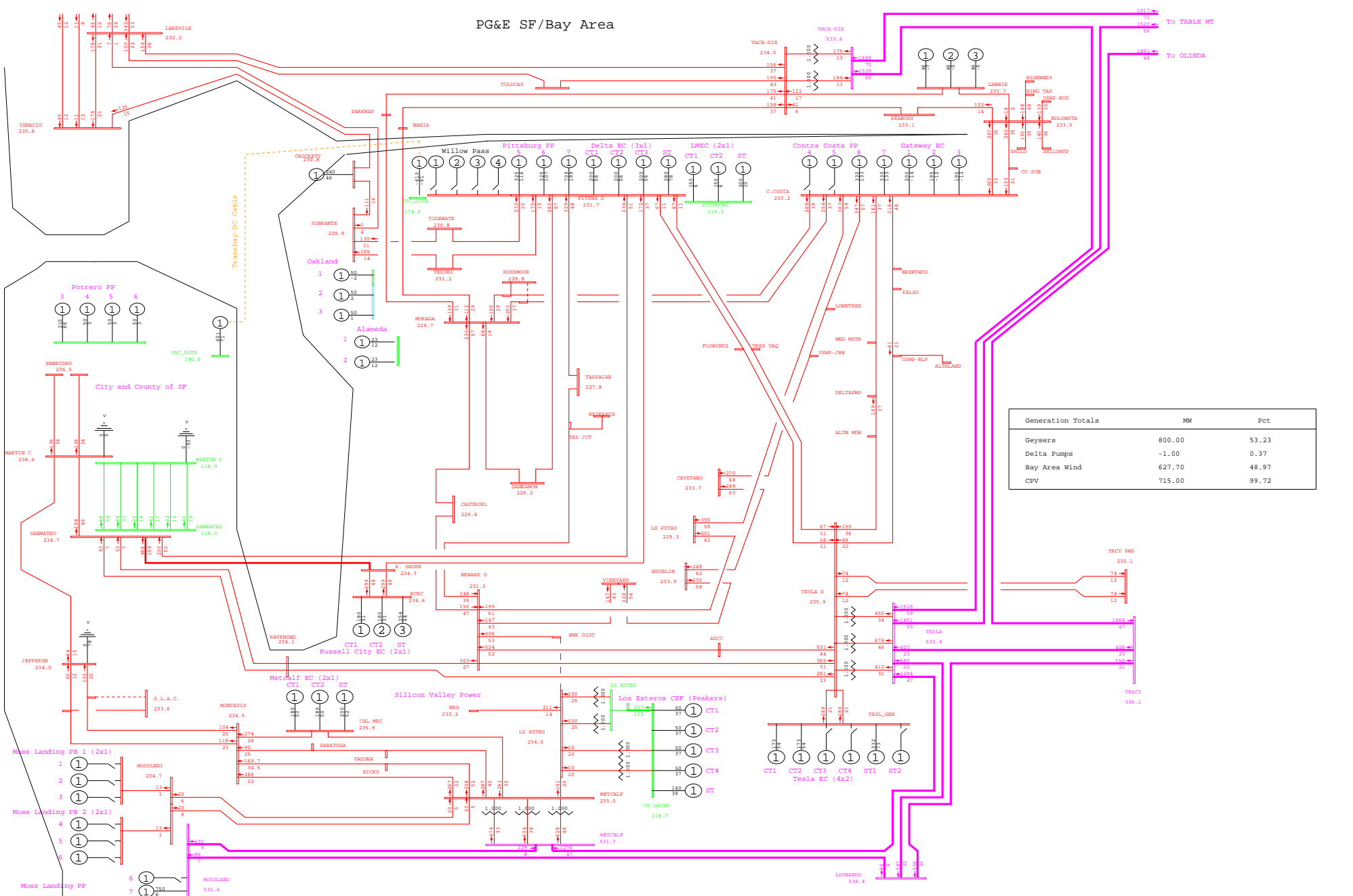
General Electric International, Inc. PSLF Program Fri Sep 26 20:51:09 2008 wlopssv2-2013mrnt_pst_ptsb-622.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

G-1 UNITED COGEN SFQF
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 622
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



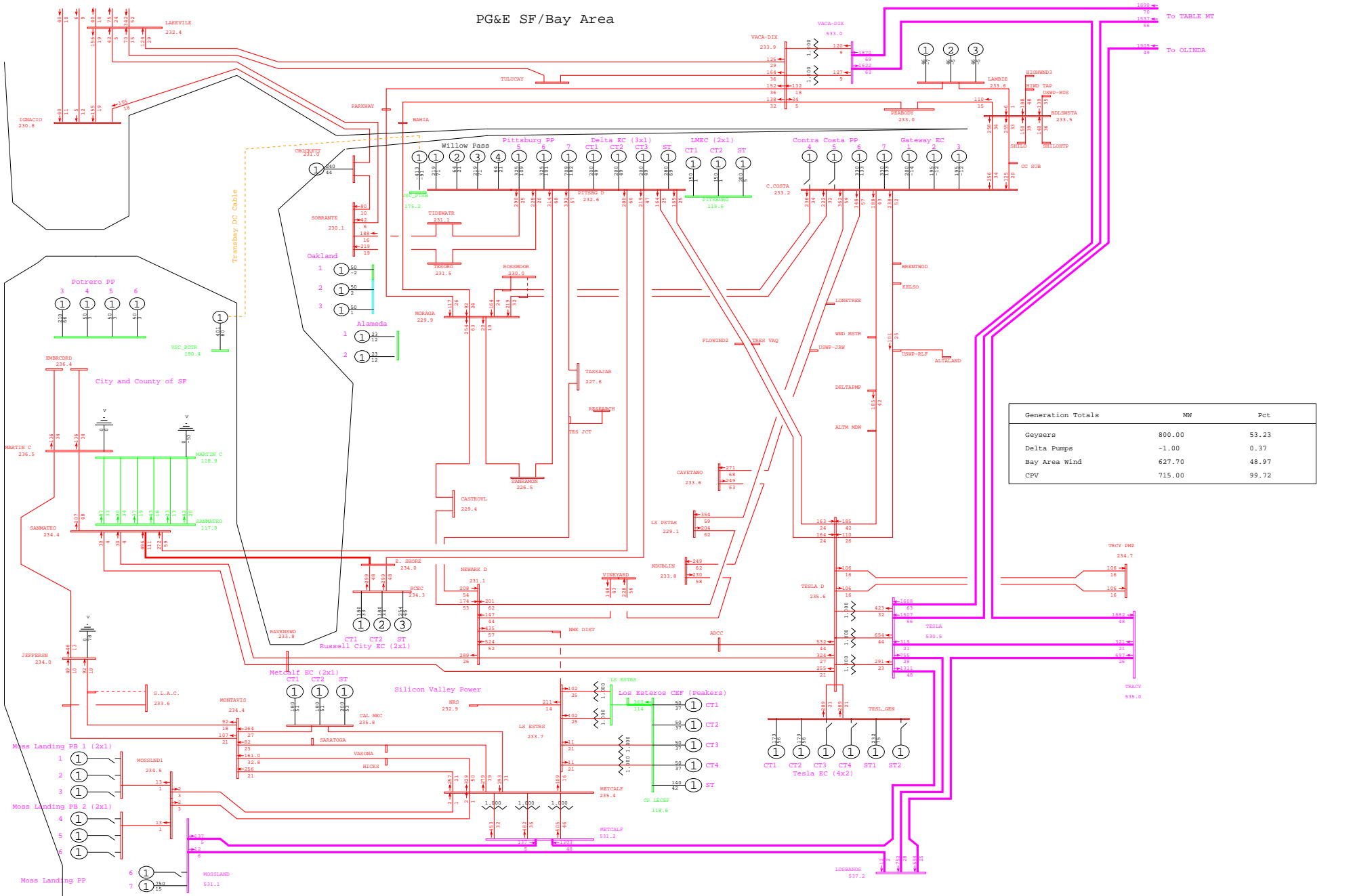
General Electric International, Inc. PSLF Program Fri Sep 26 20:54:58 2008 wlopssv2-2013mrnt_pre_ptsb-624.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

G-1 CARDINAL #1
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 624
 MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



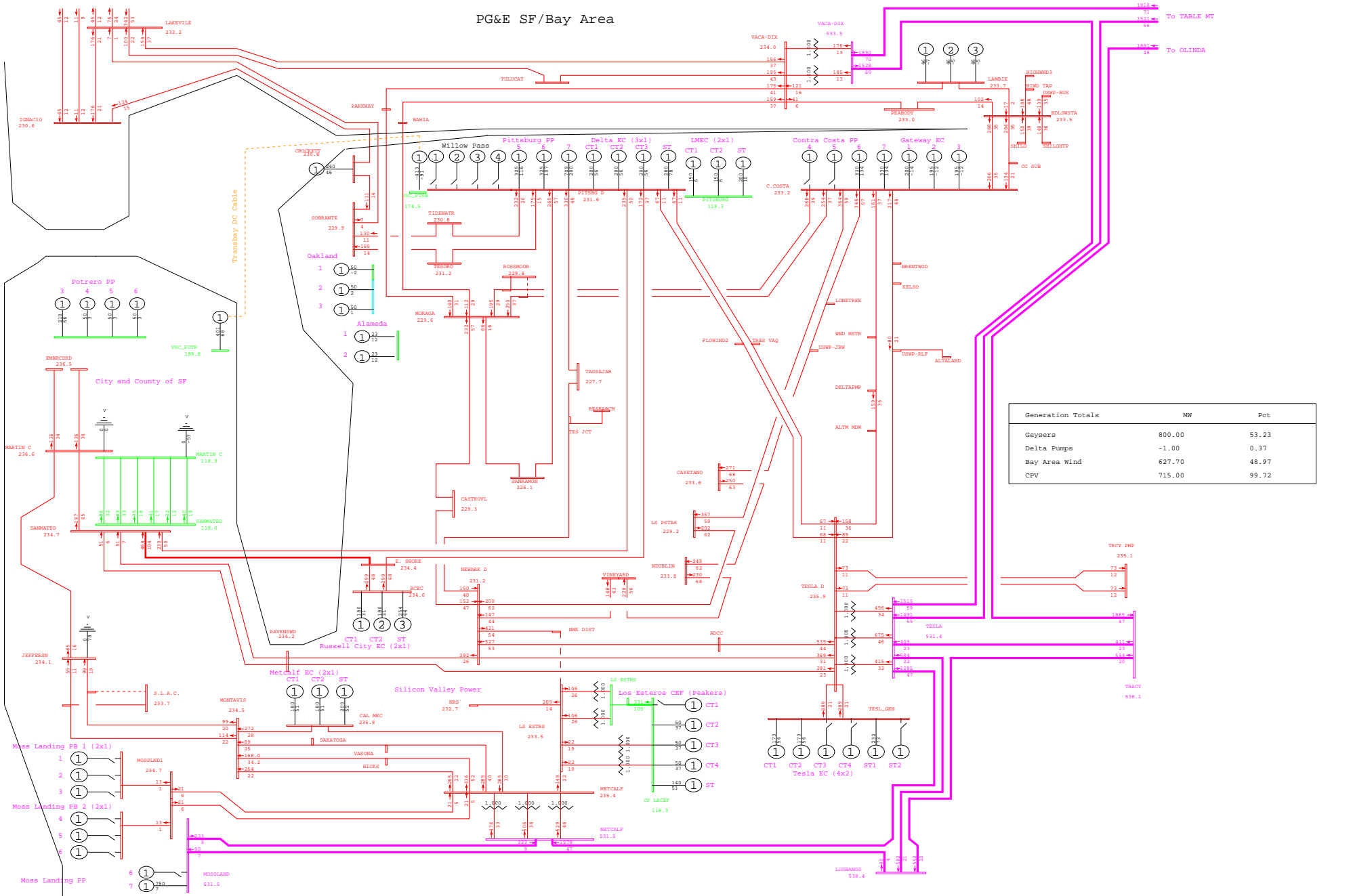
General Electric International, Inc. PSLF Program Fri Sep 26 20:51:10 2008 wlopssv2-2013mrnt_pst_ptsb-624.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

G-1 CARDINAL #1
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 624
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:55:01 2008 wlopssv2-2013mrnt_pre_ptsb-633.sav

PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav

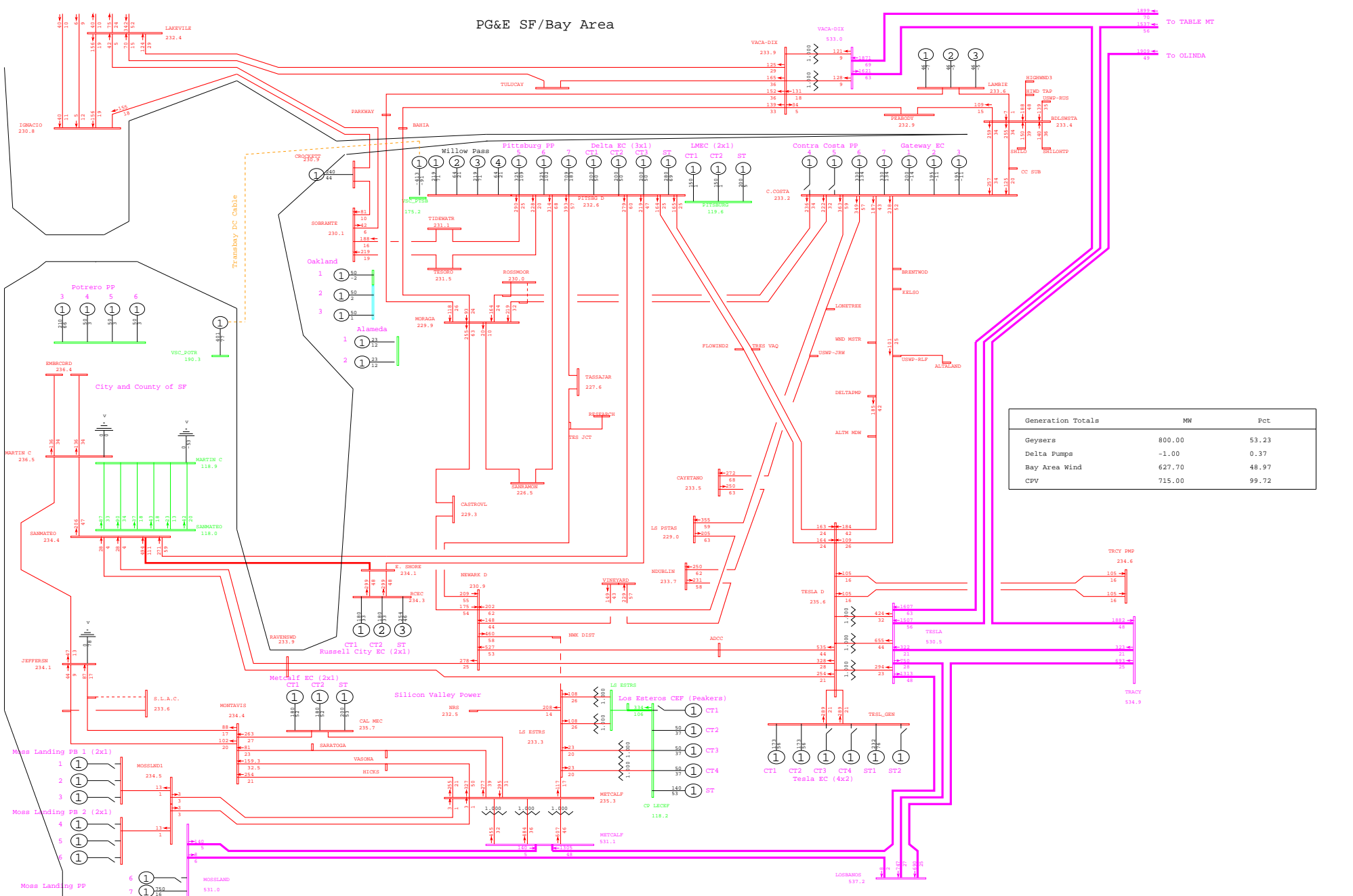
2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)

COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

G-1 LECEF GT1
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 633

MW/% rate
 bayarea_2013_PGE_v4.0r.w
 Rating = 2

PG&E SF/Bay Area



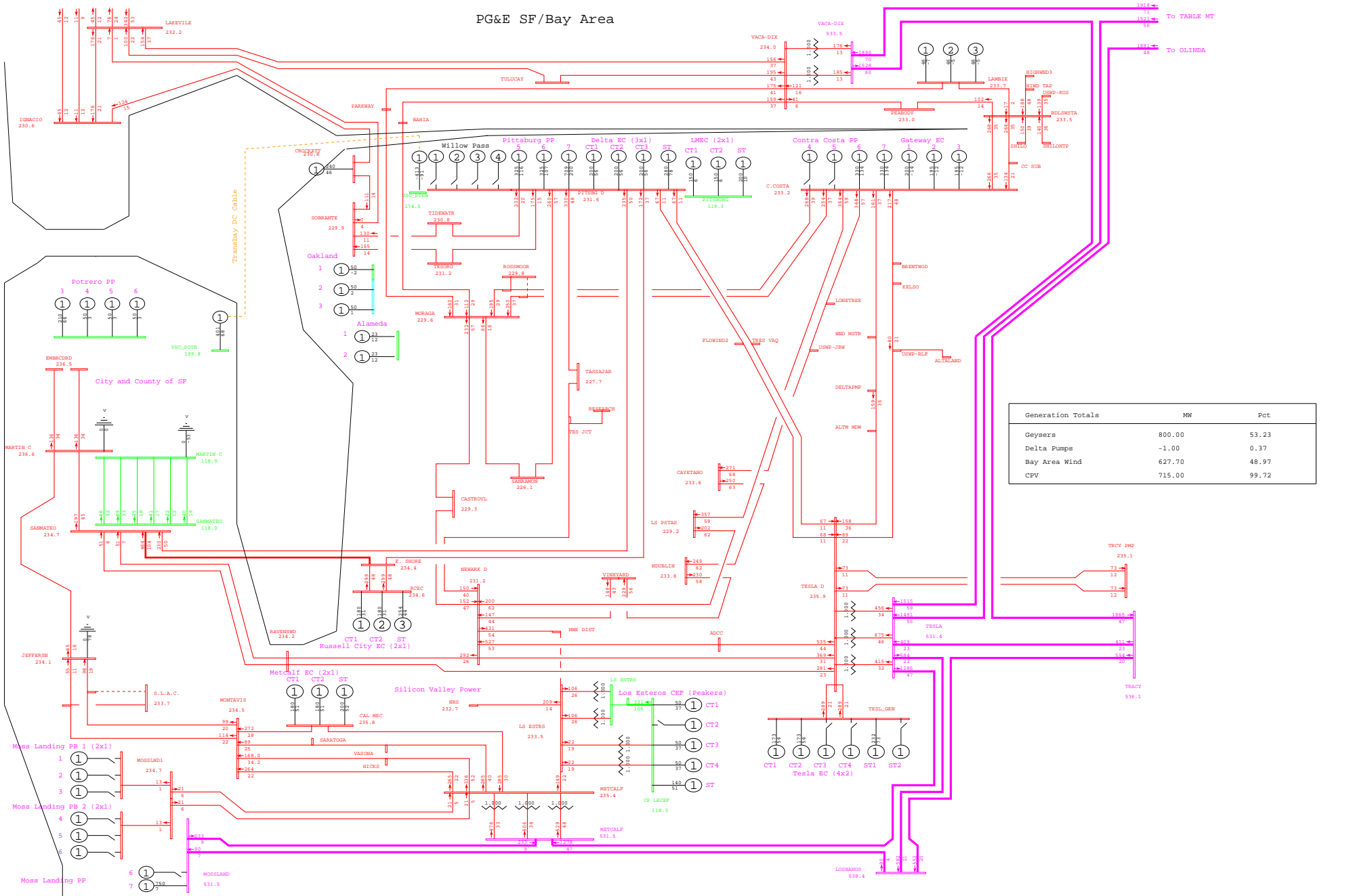
General Electric International, Inc. PSLF Program Fri Sep 26 20:51:12 2008 wlopssv2-2013mrnt_pst_ptsb-633.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

G-1 LECEF GT1
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 633
 MW/% rate
 bayarea_2013_PGE_v4.0r.w
 Rating = 2

PG&E SF/Bay Area



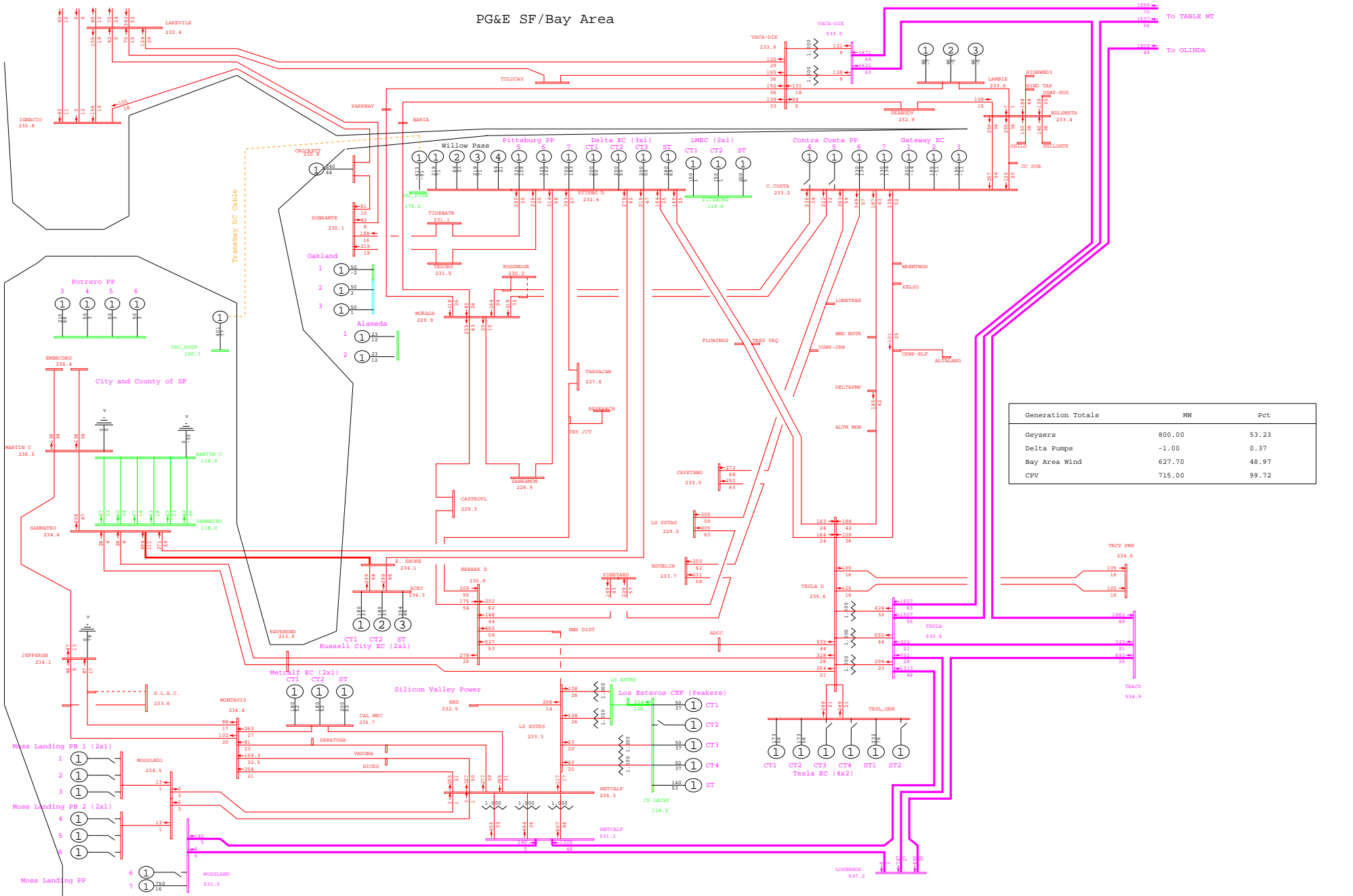
General Electric International, Inc. PSLF Program Fri Sep 26 20:55:02 2008 wlopssv2-2013mrnt_pre_ptsb-634.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

G-1 LECEF GT2
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 634
 MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



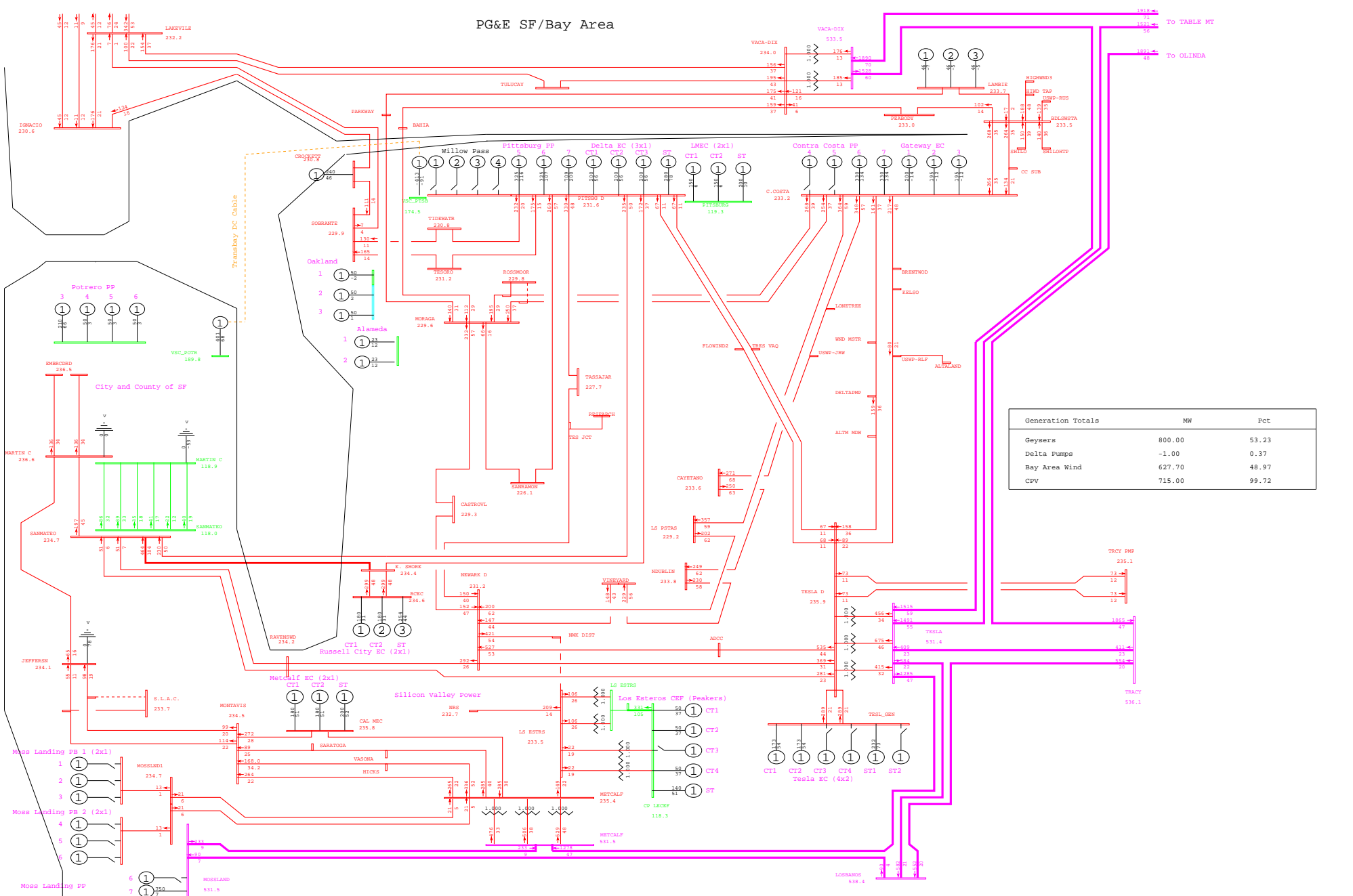
General Electric International, Inc. PSLF Program Fri Sep 26 20:51:13 2008 wlopssv2-2013mrnt_pst_ptsb-634.sav



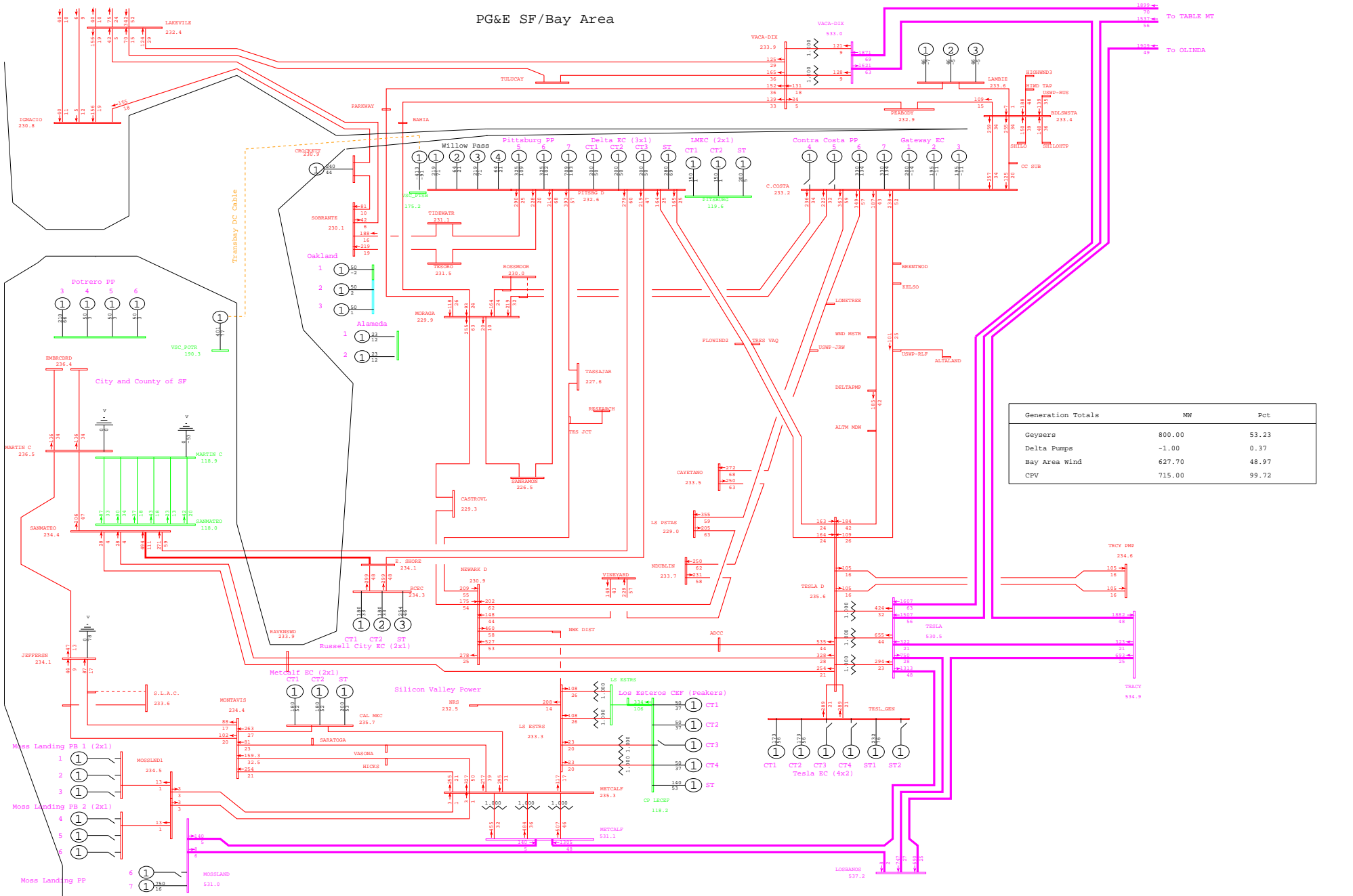
PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

G-1 LECEF GT2
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 634
 MW/% rate
 bayarea_2013_PGE_v4.0.rtf
 Rating = 2


PG&E SF/Bay Area



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:51:14 2008 wlopssv2-2013mrnt_pst_ptsb-635.sav

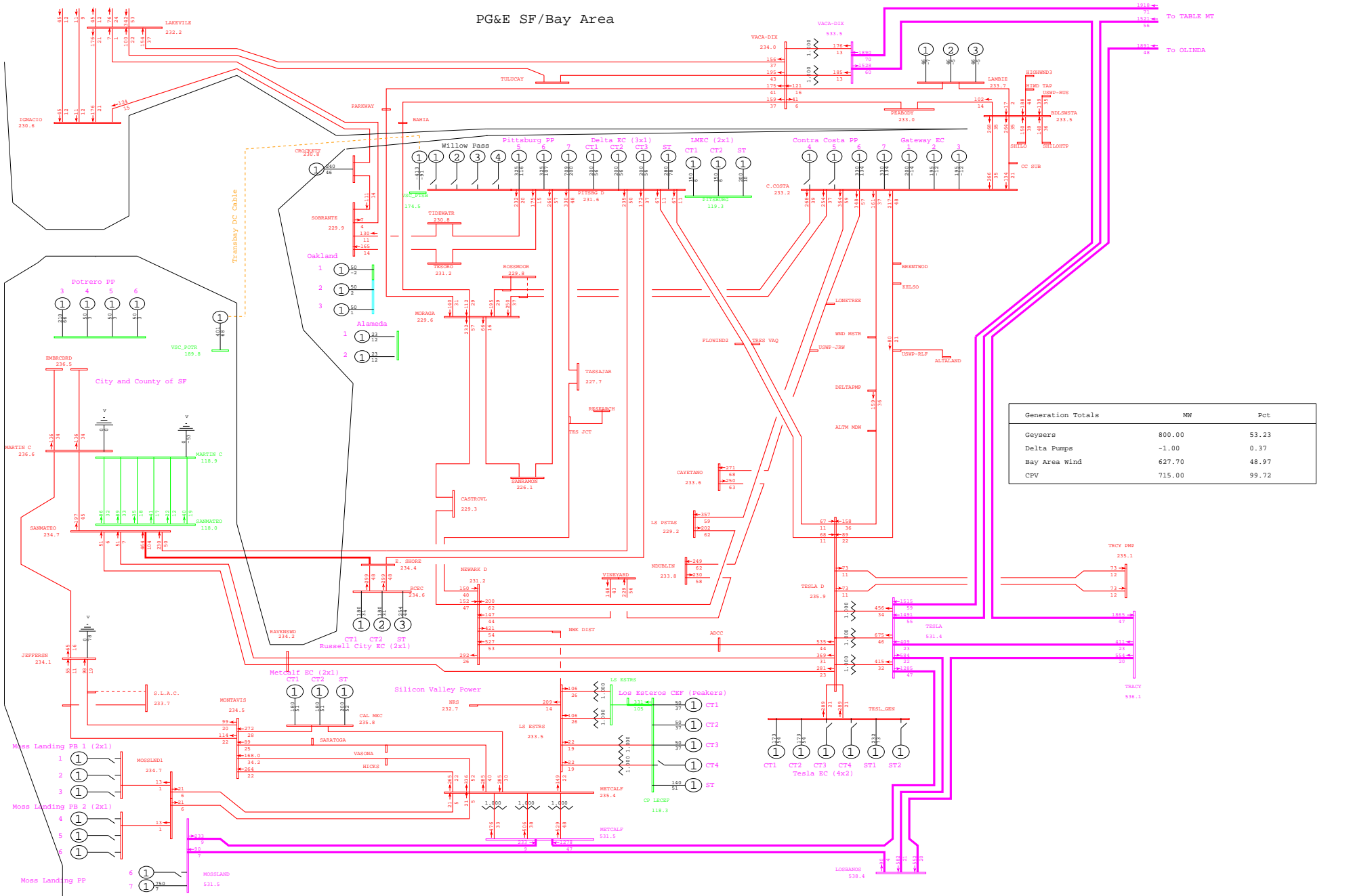


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

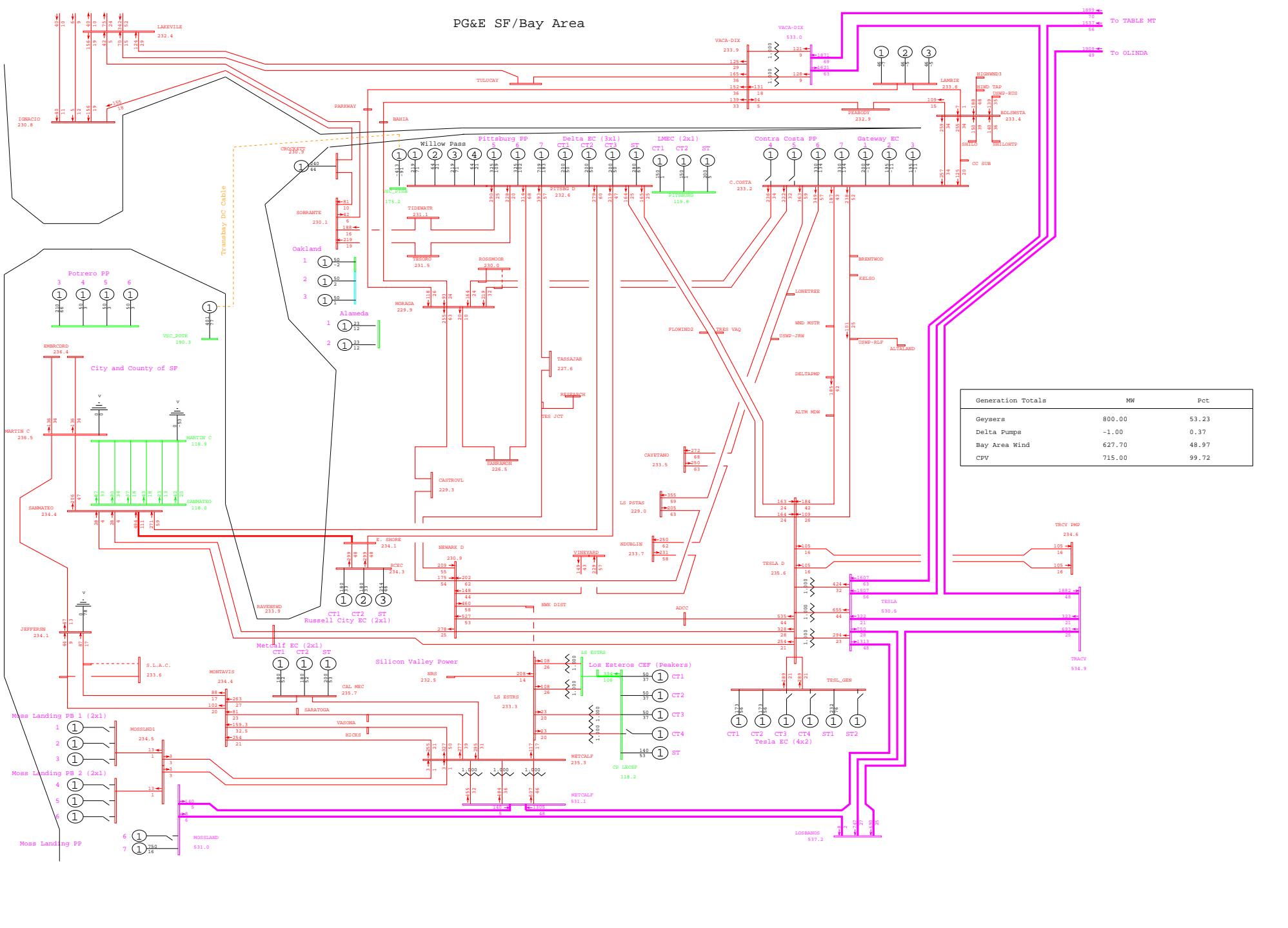
G-1 LECEF GT3
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 635

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area




PG&E SF/Bay Area



Generation Totals	MW	Pct
Geysers	800.00	53.23
Delta Pumps	-1.00	0.37
Bay Area Wind	627.70	48.97
CPV	715.00	99.72

General Electric International, Inc. PSLF Program Fri Sep 26 20:51:15 2008 wlopssv2-2013mrnt_pst_ptsb-636.sav

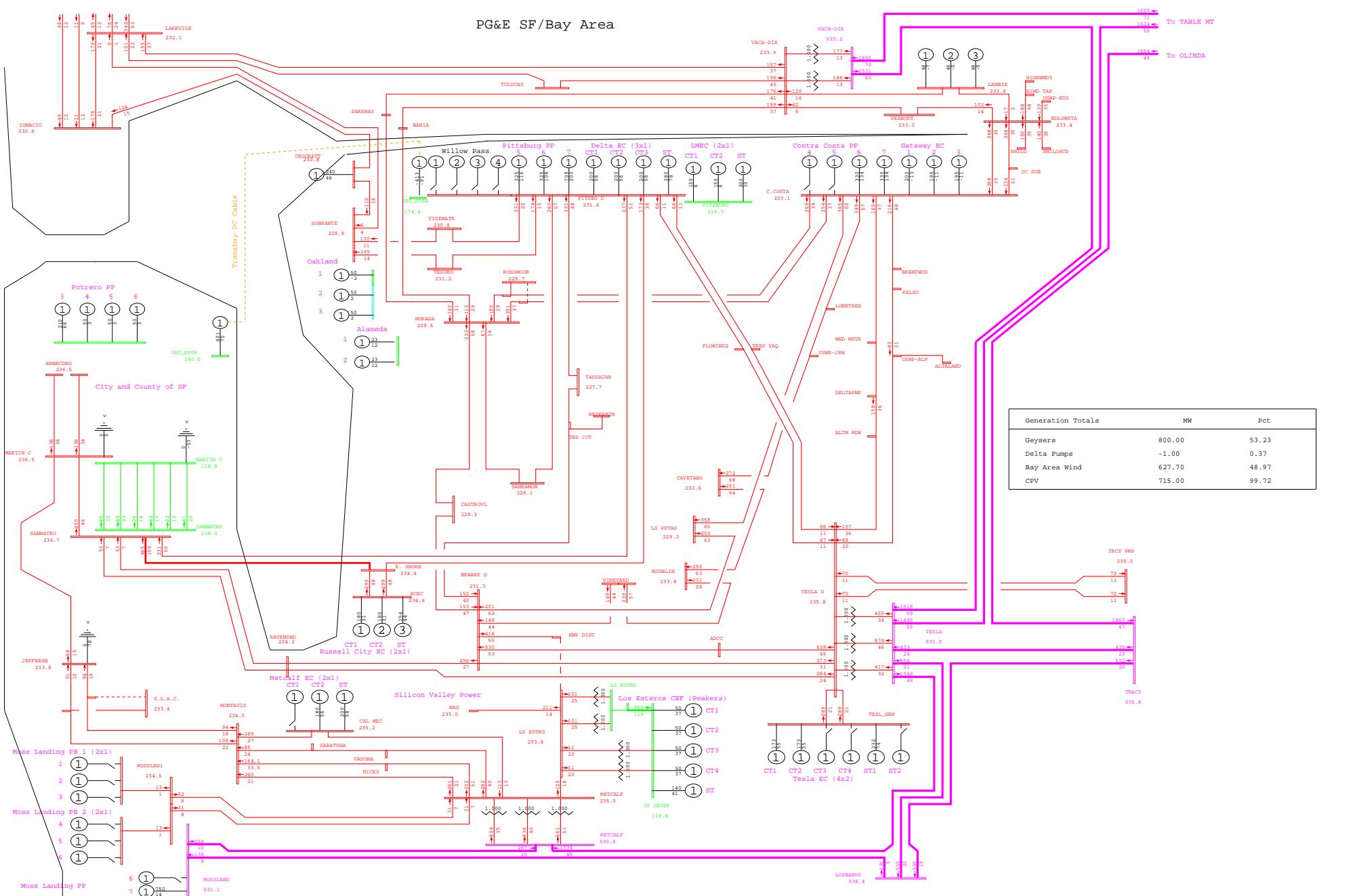


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

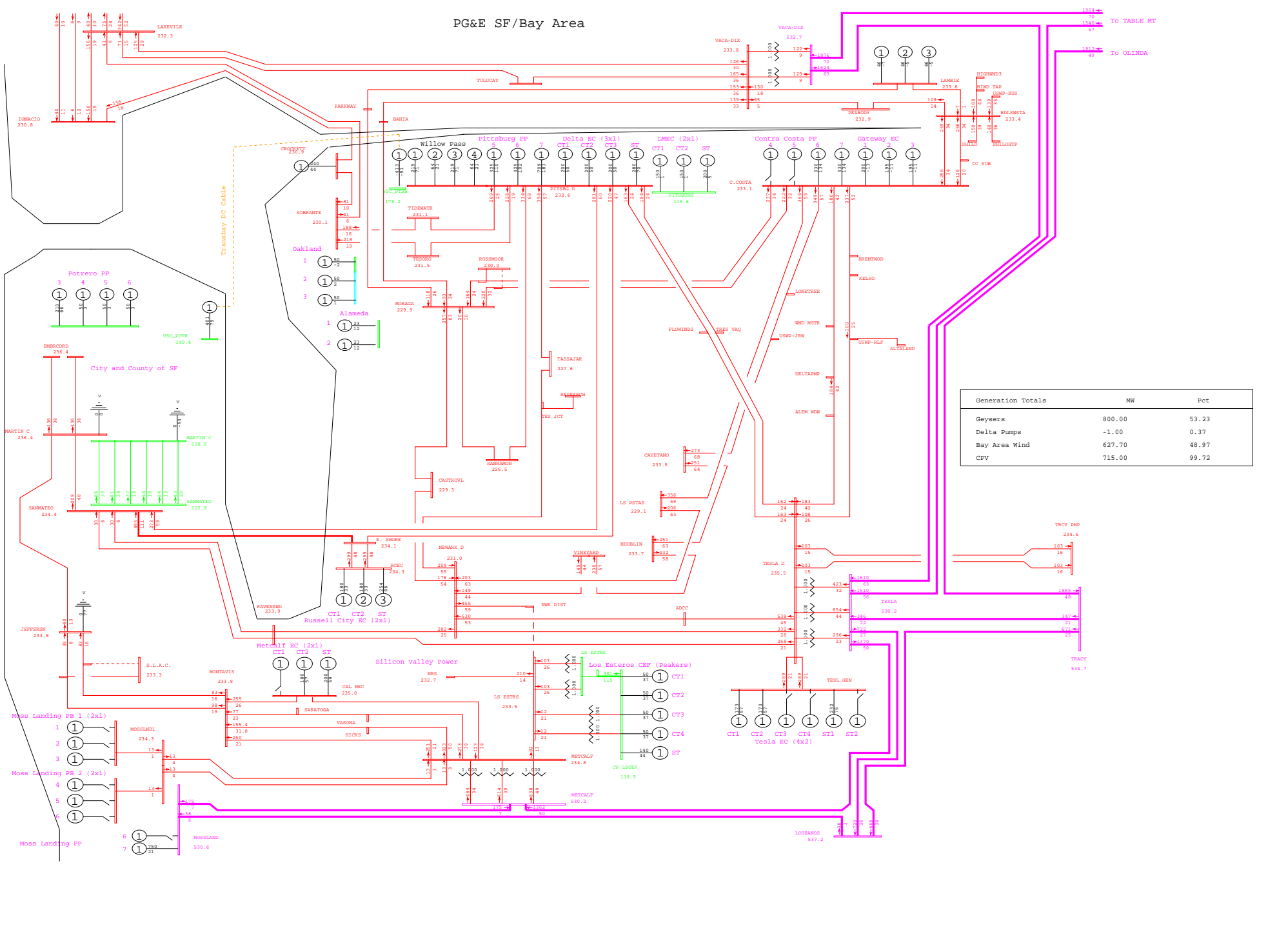
G-1 LECEF GT4
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 636

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2


PG&E SF/Bay Area



PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:51:16 2008 wlopssv2-2013mrnt_pst_ptsb-642.sav

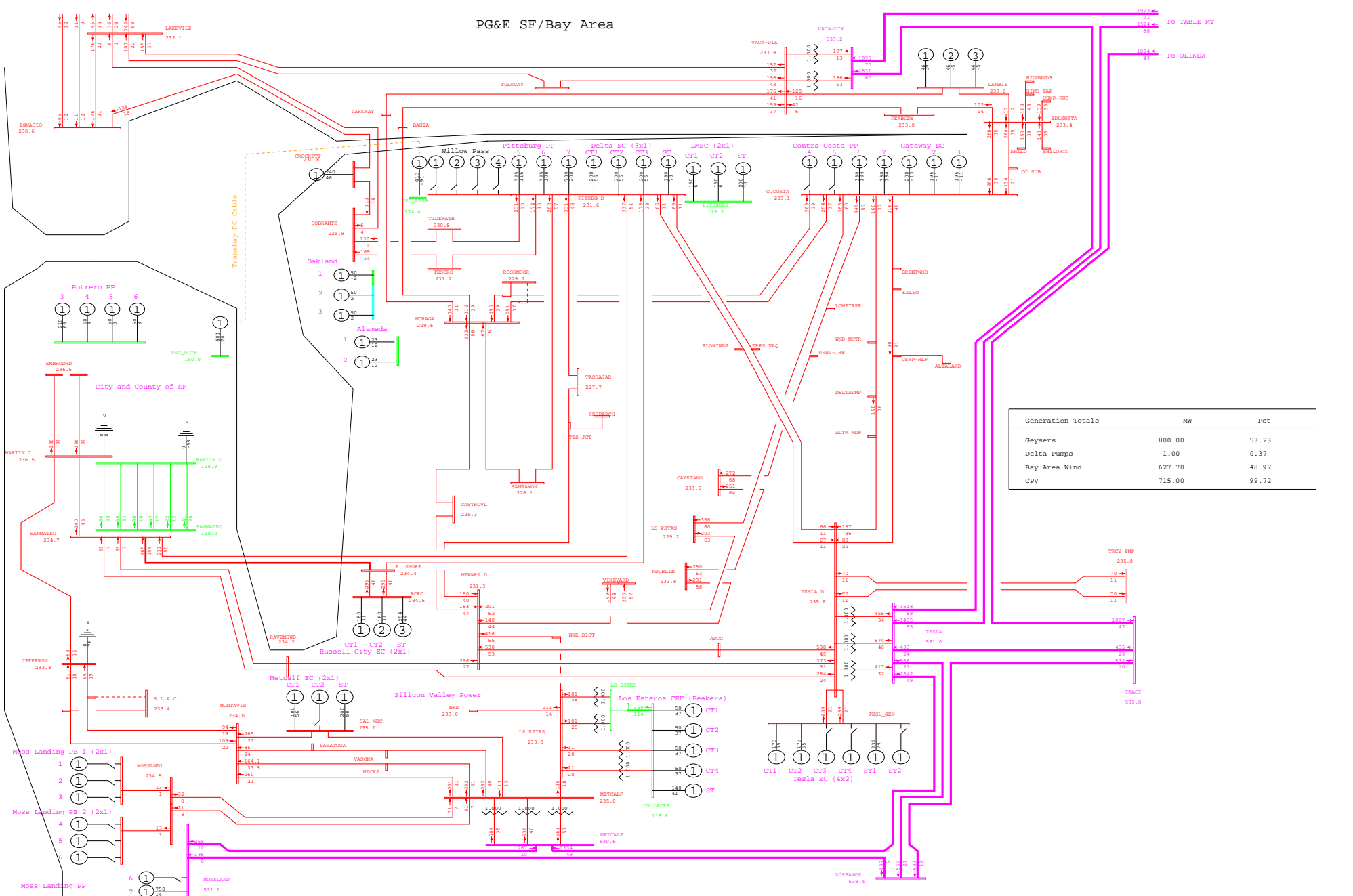


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

G-1 MEC CTG1
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 642

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



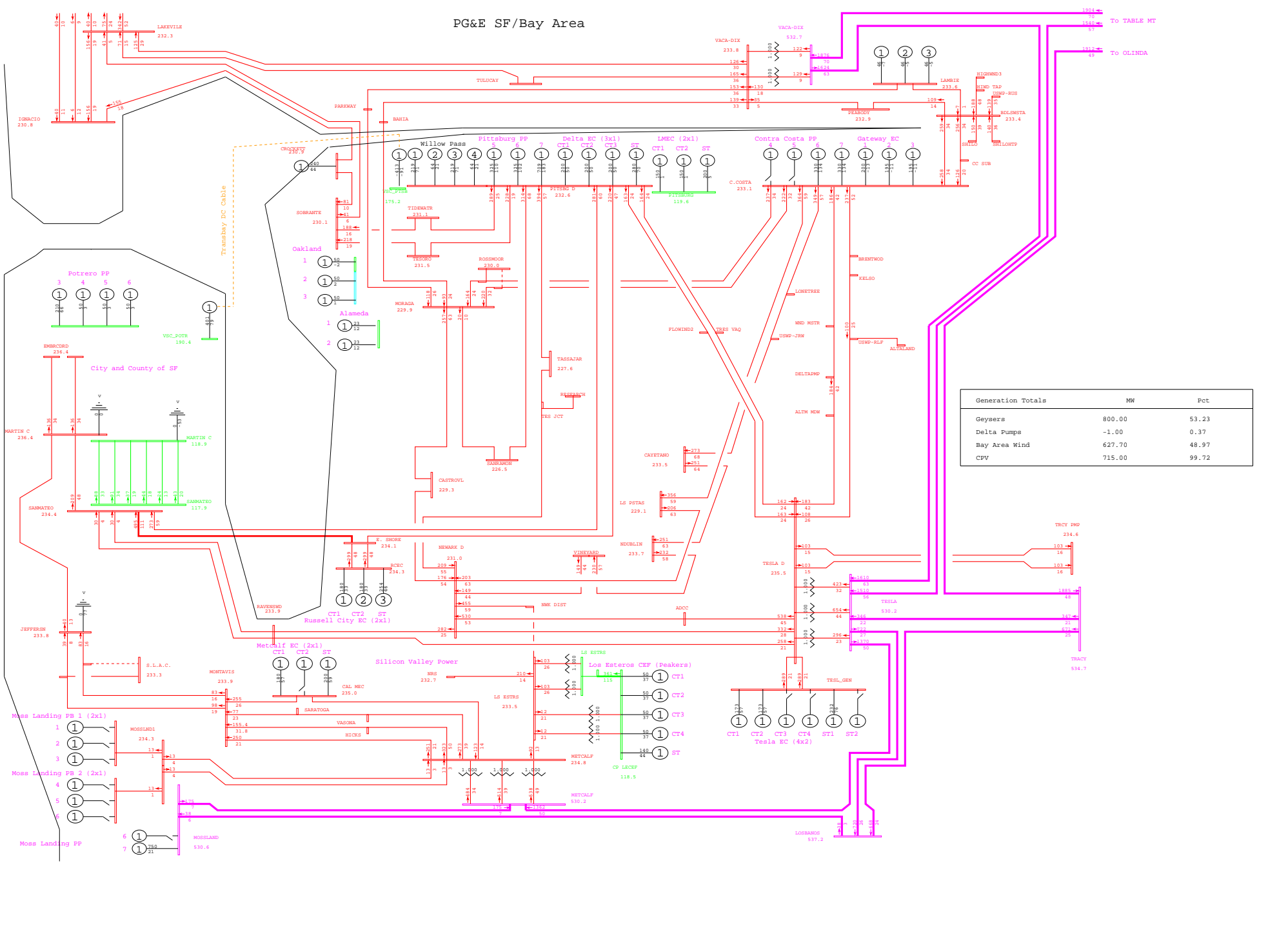
General Electric International, Inc. PSLF Program Fri Sep 26 20:55:20 2008 wlopssv2-2013mrnt_pre_ptsb-643.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

G-1 MEC CTG2
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 643
 MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



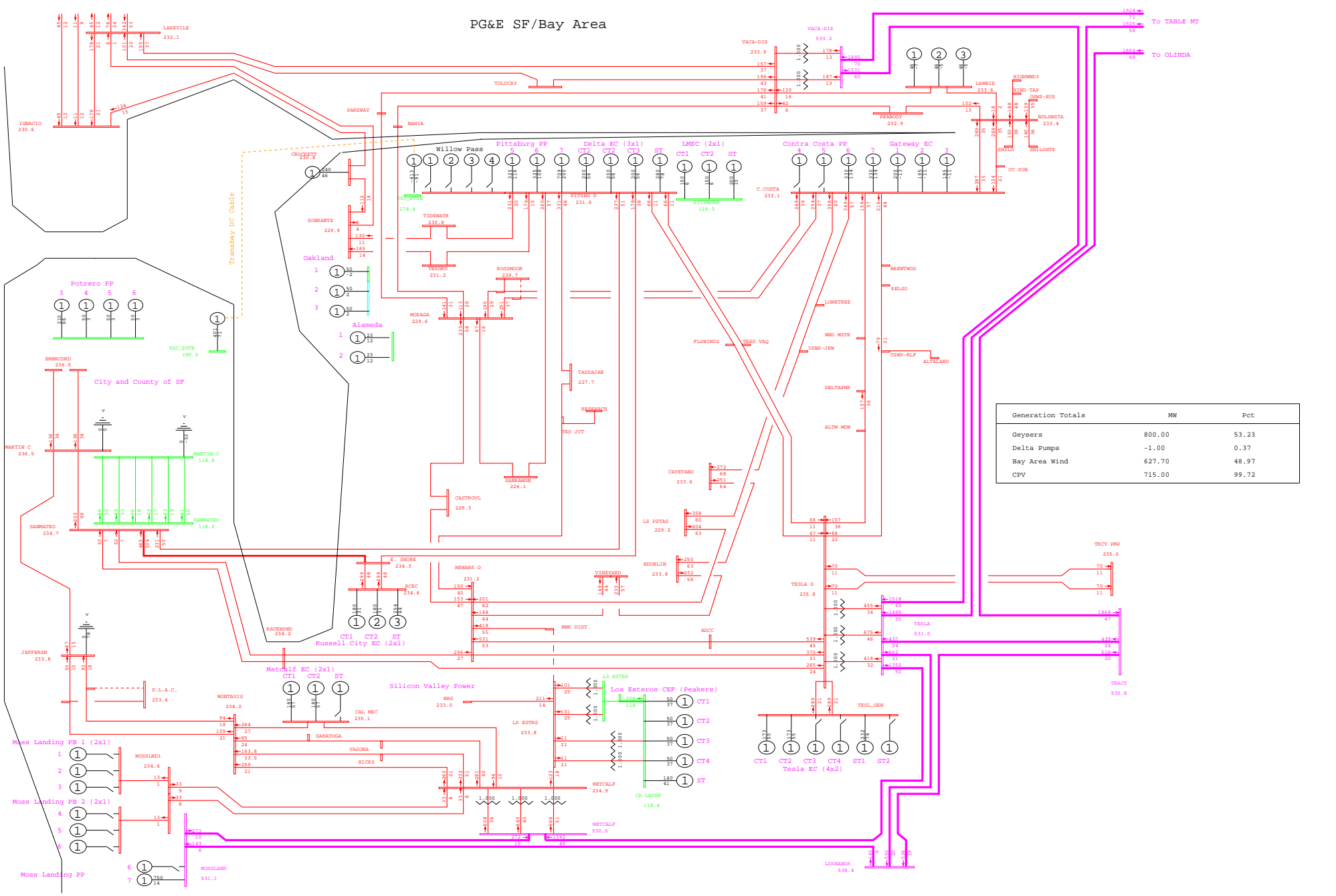
General Electric International, Inc. PSLF Program Fri Sep 26 20:51:18 2008 wlopssv2-2013mrnt_pst_ptsb-643.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

G-1 MEC CTG2
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 643
 MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:55:24 2008 wlopssv2-2013mrnt_pre_ptsb-644.sav

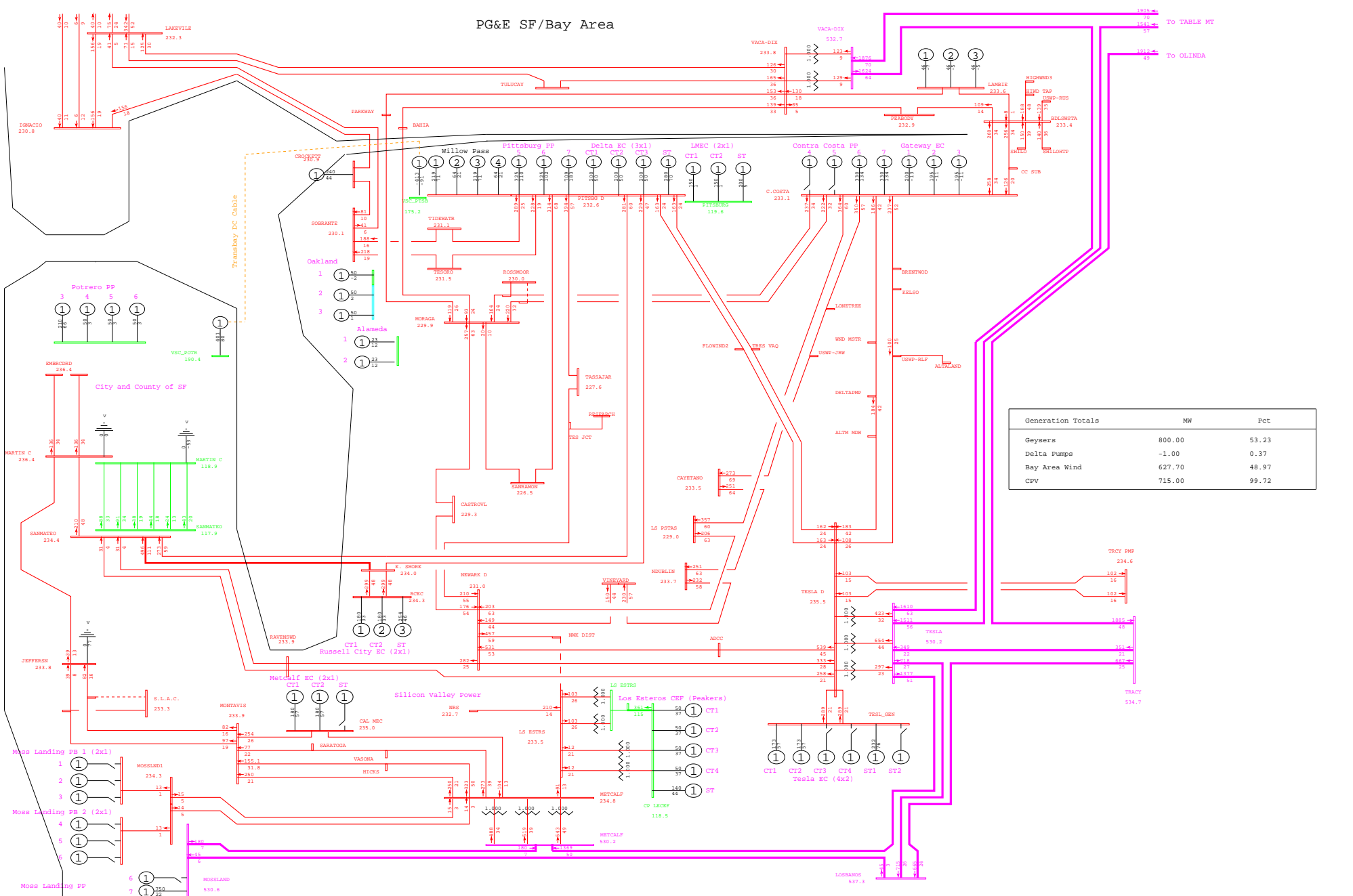


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

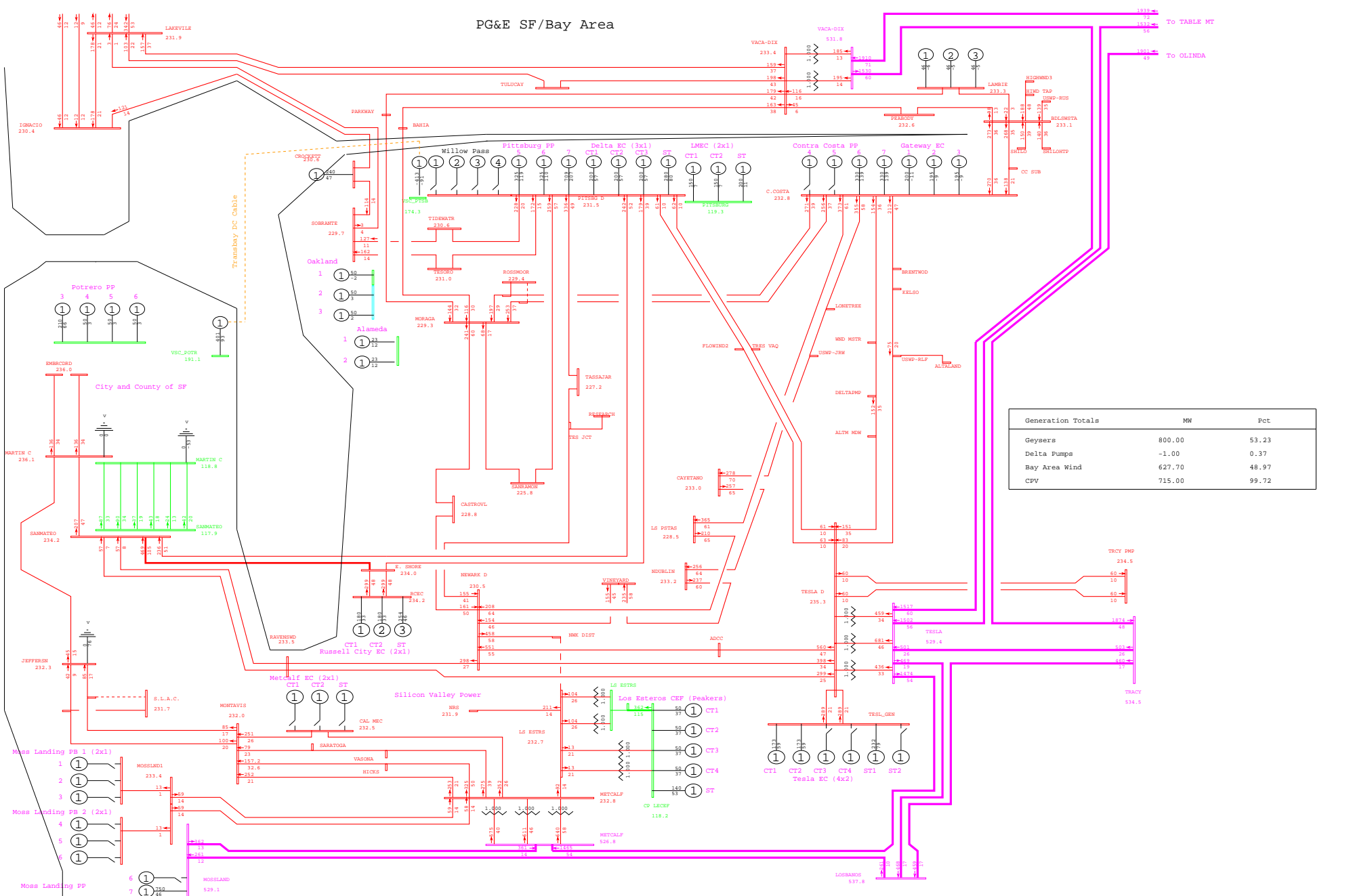
G-1 MEC STG1
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 644

MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



PG&E SF/Bay Area



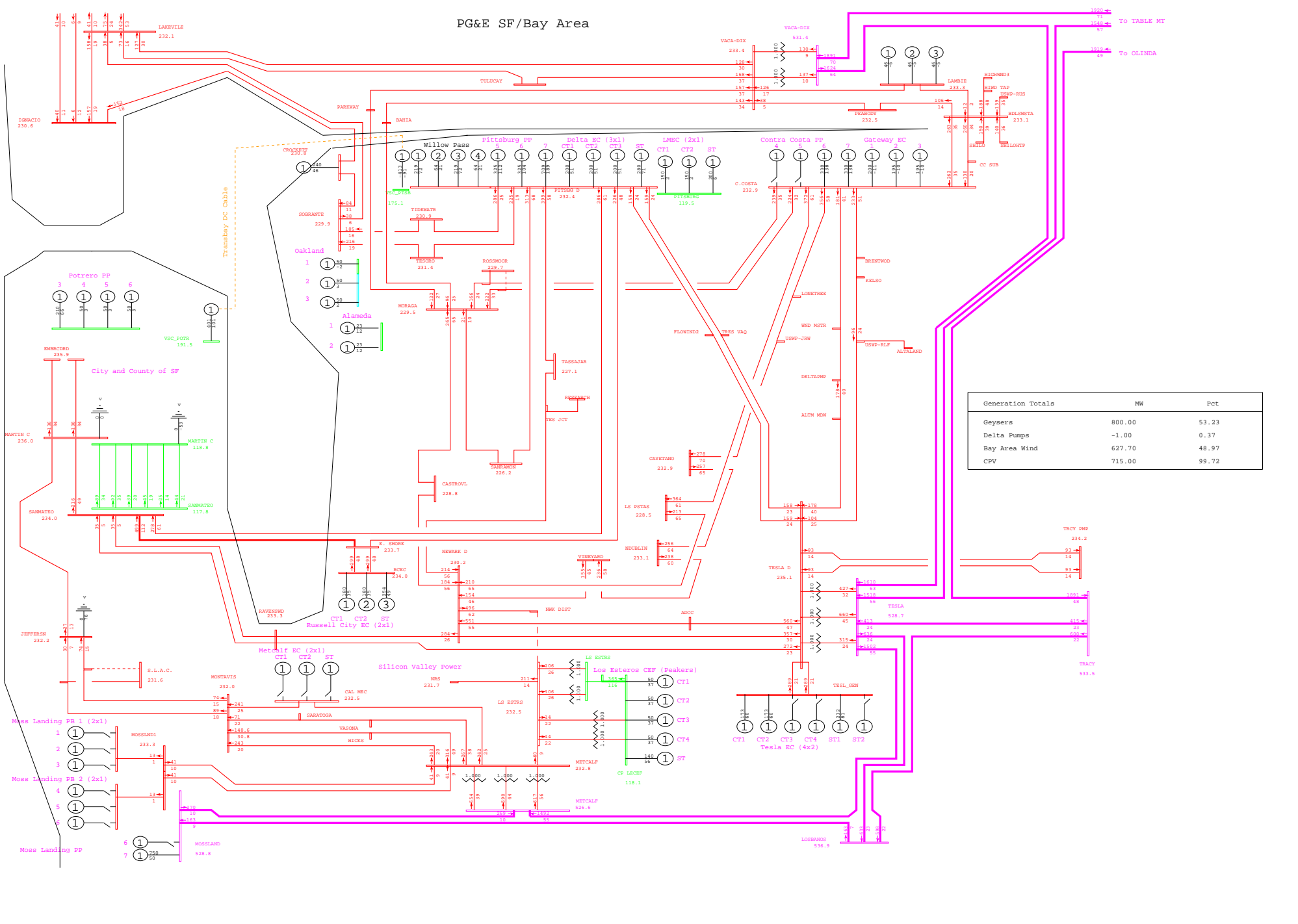
General Electric International, Inc. PSLF Program Fri Sep 26 20:55:26 2008 wlopssv2-2013mrnt_pre_ptsb-645.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

G-1 MEC PLANT
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 645
 MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



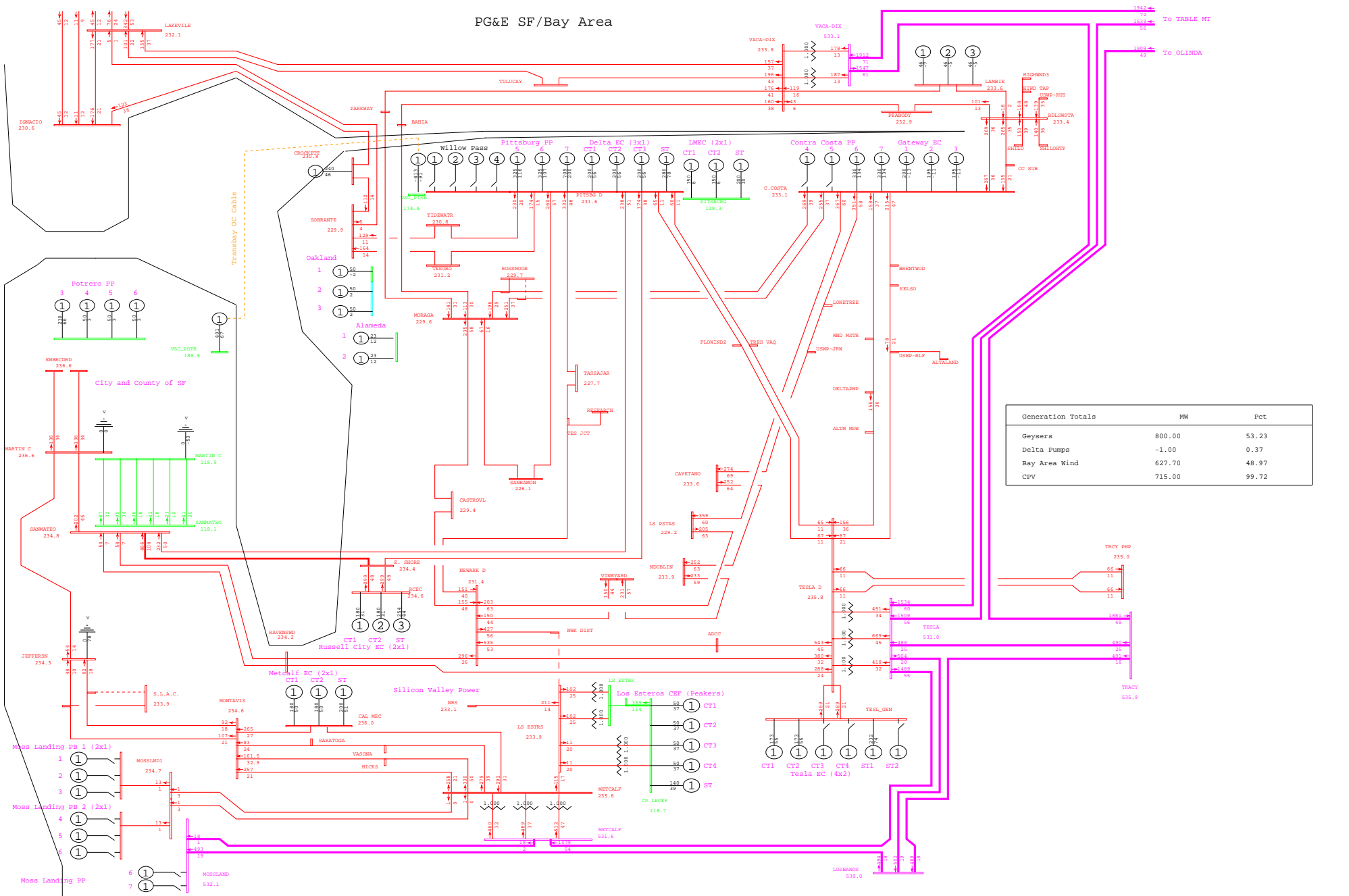
General Electric International, Inc. PSLF Program Fri Sep 26 20:51:19 2008 wlopssv2-2013mrnt_pst_ptsb-645.sav




PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

G-1 MEC PLANT
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 645
 MW/% rate
 bayarea_2013_PGE_v4.0.rw
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:55:27 2008 wlopssv2-2013mrnt_pre_ptsb-664.sav

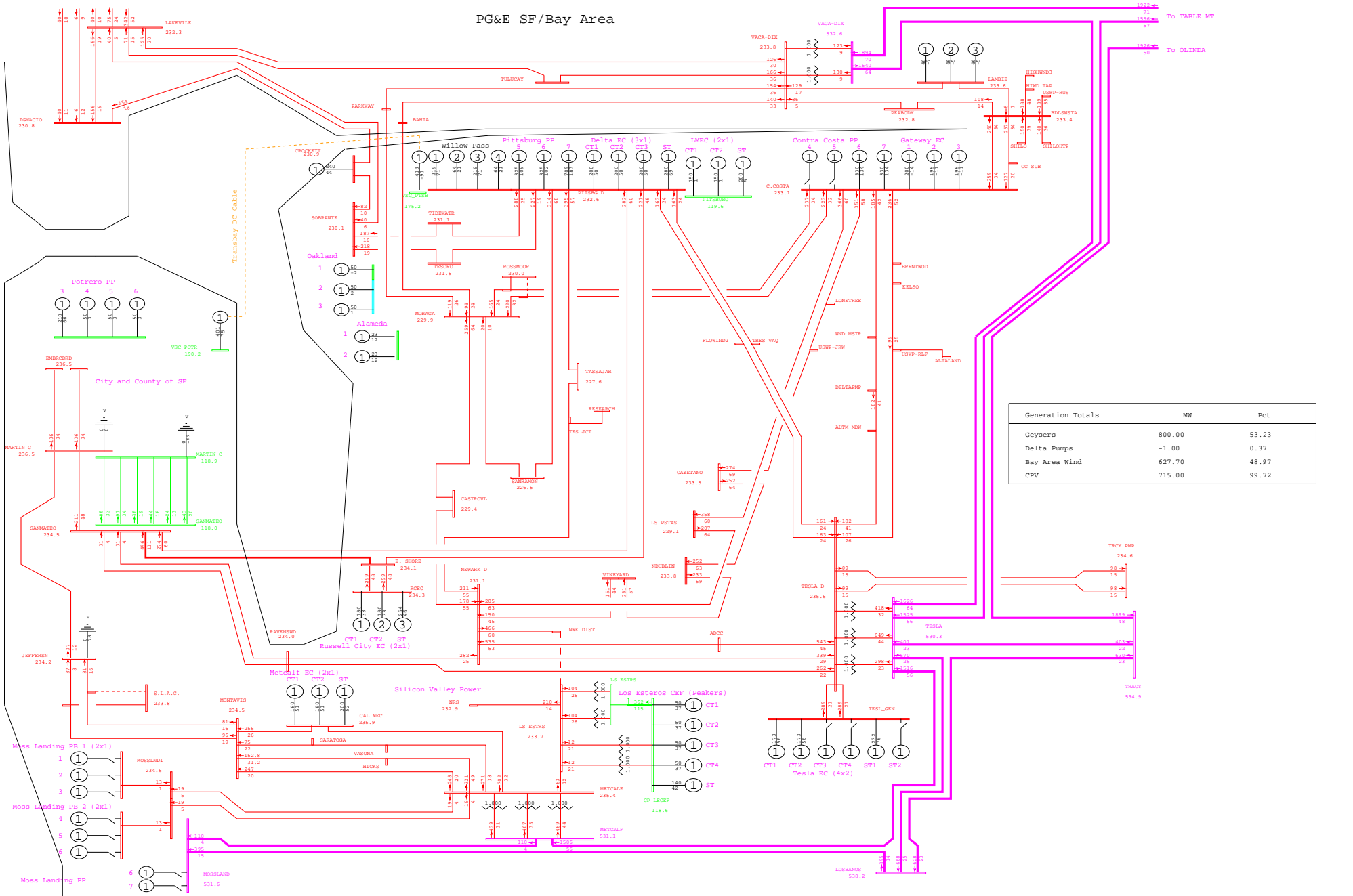


PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pre_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

G-1 MOSS LANDING #7
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 664

MW/% rate
 bayarea_2013_PGE_v4.crv
 Rating = 2

PG&E SF/Bay Area



General Electric International, Inc. PSLF Program Fri Sep 26 20:51:20 2008 wlopssv2-2013mrnt_pst_ptsb-664.sav



PG&E 2008 TRANSMISSION EXPANSION PLAN ASSESSMENT - 2013mrnt_pst_ptsb.sav
 2013 SUMPK: SYSTEM CASE (1-IN-10 LOAD)
 COI=4800(n2s); P26=4000(n2s); PDCI=3100(n2s)

G-1 MOSS LANDING #7
 wlopssv2.pfp, STEADY STATE, CASE NUMBER 664
 MW/% rate
 bayarea_2013_PGE_v4.0.rtf
 Rating = 2