

**SDG&E September 18, 2012 Response
A. 10-06-007 South Bay Substation Relocation Project PTC
Energy Division Data Request 16 Dated September 4, 2012
SDGE-ED-016: Questions 1-5**

In SDG&E's response to the CPUC's June 28, 2012 data request, specifically question number 2, SDG&E stated that:

“The following lines exceed their normal ratings for loss of a single transmission element (N-1, NERC category B) in the absence of the Bay Boulevard 230 kV project:

- 1) Penasquitos-Old Town 230 kV line**
- 2) Miguel-Miguel Tap 69 kV**
- 3) Paradise-Miguel 69 kV line (beginning in 2015)**
- 4) San Ysidro-Otay Lake Tap 69 kV line (beginning in 2016)”**

In addition, SDG&E went on to state that:

“If a critical contingency occurs and one of the above lines exceeds its normal rating, it would be necessary to rely on a short-term emergency rating and to redispatch generation to bring the line flow to within its normal rating. However, in the absence of South Bay generation there is little or no generation available to redispatch in the vicinity of the downtown load center. It would be necessary to either shed load or curtail load pre-contingency, neither of which are acceptable mitigations for a Category B contingency.

Additionally, the following transformers exceed their normal ratings for loss of one of the parallel banks:

- 1. Mission 138/69 kV banks 50/51/52**
- 2. Old Town 230/69 kV banks 70/71**

As with the transmission lines listed above, if a critical contingency occurs it would be necessary to rely on the banks' short-term emergency ratings. However, transformer banks are generally limited on the number of days per year they are permitted to exceed their normal ratings, in order to prevent loss of service life. Generally that limit is five days per year. Note that in the response to Energy Division Data Request 12 Q1, SDG&E determined that the Old Town banks were at a risk of exceeding their normal rating for up to nine days per year in 2014, in the absence of the Bay Boulevard project.

Finally, the addition of the Bay Blvd project significantly improves the voltage profile of the San Diego transmission system in the absence of the South Bay generation, reduces reactive power demand, and reduces system

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losses. Powerflow studies indicate that the risk of voltage collapse in the San Diego load pocket is significantly reduced with the Bay Boulevard substation.

SDG&E would also have to implement the following projects if a “No Project Alternative” was selected as the Environmentally Superior Alternative:

1. Reconfigure Penasquitos-Old Town and Silvergate-Old Town Tap 230 kV lines to create a new Penasquitos-Silvergate 230 kV line
2. Reconductor Miguel-Miguel Tap 69 kV
3. Reconductor Paradise-Miguel 69 kV line
4. Reconductor San Ysidro-Otay Lake Tap 69 kV line
5. Upgrade 138/69 kV banks at Mission Sub or add a 2nd 230/69 kV at Mission Sub
6. Add a 3rd 230/69 kV bank at Silvergate
7. Install a +/-240 MVAR 230 kV synchronous condenser at Mission substation
8. Rebuild the existing 138/69 kV South Bay substation to replace aging and obsolete substation equipment
9. Find additional land for a new distribution substation needed to provide for future load growth in the South Bay region.”

With regards to the above statements, please provide the following:

Question 1:

- (a) The “base case” power flow – or power flows – that demonstrates the loading problems listed above.
- (b) For the Old Town, South Bay, and Silvergate transformers, please provide the loadings at the time of the SDG&E system peak for the last five years. Please include loadings on both the 230 kV (and/or 138 kV) and 69 kV sides of these transformers, including both MW and MVARs.
- (c) The outage history of the Old Town transformers. Please include the time of the outage, the duration of the outage, and the cause. If data is available, please also provide the loading on the Old Town transformer that remained in service during the outage.

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SDG&E Response to Question 1:

(a)

Attached are spread sheets which provide summary and detailed tabular power flow results as to the reliability risks if the in-service-date for Bay Blvd is delayed beyond summer 2013 out to 2015. The load and resource tables provide load and resource assumptions for years 2013 and 2015 for two scenarios each year.

The analysis was performed using primarily VSAT (Voltage Stability Analysis Tool) to perform 600 MW power transfers. The starting point was 4700 MW of load [not including losses] and correlates closely to our 2010 all-time peak system load of 4684 MW. The transfer was performed out to a total of 5300 MW of SDGE load. Only single contingencies were simulated, including G-1/N-1 simulations.

The 2013 scenarios portray pre-project assumptions. The 2015 scenarios portray post Bay Blvd assumptions.

Three scenarios were modeled for each of the 2013 and 2015 years. However the L&R numbers were not included in that spread sheet. The scenarios portrayed starting point cut plane flows of 2000/3000/4000 MWs. The 4000 MW cut plane flow cases succumbed to voltage collapse at the initial transfer point of 4700 MW of SDGE load. The 2013 3000 MW cut plane flow model succumbed to voltage collapse at the 4800 MW of load point, the 2015 3000 MW case failed at the 5150 MW SDGE load point. This alone is an indicator, all assumptions being the same, of the benefit of the 230 kV loop-in to the proposed Bay Blvd substation.

The “sum_load_1” and “sum_load_2” worksheets list loading performance in PU and referenced against the continuous ratings. “Sum_load_1” list results based on ascending SDGE MW load from 4700 to 5300 MW. The “sum_load_2” worksheet lists performance in ascending contingency/affected facility and range of ascending SDGE load level for excursions beyond 0.95 PU of the continuous facility rating. Loading beyond the 0.99 PU level are highlighted in dark pink.

General comment: The facility post contingency loading performance, using the continuous rating as reference, does indicate either potential for reliability risk in the local area of the project [south of a line through Silvergate and Miguel substations. In addition, loading on certain few facilities north of the downtown area indicate post contingency loading above continuous ratings.

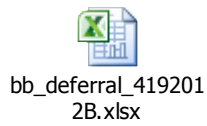
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The first spread sheet provides a high level summary of findings as regards referenced affected facilities:



Embedded file is included as table below -
see Bay Blvd Delay Impacts

The second spread sheet provides a detailed accounting of findings as regards referenced affected facilities:



Embedded file is included as table below - see Bay
Blvd Deferral Impacts

Additional power flow plots related to Old Town and Mission transformers loading are provided as a PDF icon:



Embedded file is included below - see Transformer
Plots

(b)

Loadings for the referenced transformers are attached as an Excel icon. Note, the loading numbers are for the high side of the transformer. Low side loading is not recorded:



Embedded file is included below - see Data
Request 15_1b

(c) Outage data for the Old Town 230/69 kV bulk power transformers is provided as an Excel icon:



Embedded file is included below - see Data
Request 16_1c

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SDG&E further stated in its response to the CPUC's June 28, 2012 data request that:

“The estimated total cost of the updated “No Project Alternative” is a minimum of \$220M - \$270M. The components of this alternative have not been fully studied for feasibility or cost.”

Question 2:

- (a) Please provide a breakdown of the cost items that account for the estimated cost of the “No Project Alternative”.
- (b) To the degree this is not feasible; please provide a list of the major components that leads SDG&E to estimate that the “No Project Alternative” would cost a “minimum of \$220 - \$270”.
- (c) Please explain why SDG&E did not fully study the “feasibility or cost” of “No Project Alternative” as an alternative to the proposed project.

SDG&E Response to Question 2:

- (a) The following table lists the cost breakdown of the major components that leads SDG&E to estimate that the “No Project Alternative” will cost a minimum of \$220M – \$270M
- (b) See response to Questions No. 2a.
- (c) Design details which are required to fully study the feasibility or cost were not completed for any of the project components associated with the “No Project Alternative” because the cost is significantly more than the project alternatives. Furthermore the “No Project Alternative” does not meet three of the four project objectives as described in the PEA. It does not provide a flexible transmission system, it does not facilitate the City of Chula Vista's redevelopment goals, and the “No Project Alternative” does not provide for future transmission or distribution load growth for the South Bay region.

The estimated cost breakdown for the project components are calculated based on preliminary evaluation of those components, SDG&E's experience with similar projects, and/or per-mile cost estimates without assessing existing technical or ROW conditions. Upgrading Mission Substation transformers is also based on per unit cost estimates, however, Mission Substation is very congested and upgrading or replacing transformers has not been fully studied. SDG&E does not have any experience installing synchronous condensers, so the estimate for installing them at Mission Substation is based on input from vendors and assumes that the installation will fit on SDG&E owned land with

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minimal site development. Finally, the cost to purchase land for use as a distribution substation is dependent on many unknown variables.

	Project Component	Cost Range (\$MM)
1	Reconfigure Penasquitos-Old Town and Silvergate-Old Town Tap 230 kV	\$4-5
2	Reconductor Miguel-Miguel Tap 69 kV	\$4-5
3	Reconductor Paradise-Miguel 69 kV line	\$4-5
4	Reconductor San Ysidro-Otay Lake Tap 69 kV line	\$3-4
5	Upgrade 138/69 kV banks at Mission Sub or add a 2nd 230/69 kV at Mission Sub	\$21-23
6	Add a 3rd 230/69 kV bank at Silvergate	\$13-14
7	Install a +/-240 MVAR 230 kV synchronous condenser at Mission Sub	\$80-90
8	Rebuild the existing 138/69 kV South Bay Sub	\$85-94
9	Find additional land for a new distribution substation for future load growth ¹	\$6-30
	Total	\$220-270

¹ The estimated cost of obtaining, permitting, and developing a site for use as a distribution substation is based on a computational method using the following assumptions and limitations: (1) Recent land sale comparisons, or "Comps", suggest a raw land cost could range from \$2 million to \$3 million; however, SDG&E's Real Estate team has had experience handling land purchases for similar use in excess of \$8 million. This estimated cost would increase for any of the following factors: unwilling seller; necessity to relocate an existing business; demolition of any existing buildings; (2) The estimated cost to loop two 69 kV transmission lines into a new substation would range from \$3 million to \$8 million assuming the distribution substation site is within 0.5 mile of the existing 69 kV transmission lines. If the substation site is further than 0.5 mile, additional transmission costs may be required; (3) Without knowing specific site conditions; site development costs can range up to \$13 million if grading requirements are not overly excessive. The cost for developing a PEA and filing a Permit to Construct for a separate distribution substation is estimated to be approximately \$1 million.

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Question 3:

In addition to providing the above requested information, please provide the following:

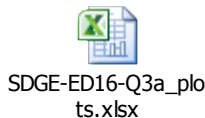
- (a) The SDG&E system peak demand for the last ten years. Include plots of the peak day for each year, including the several days before and after those peaks;
- (b) The loading at the time of peak for South Bay Substation, for the last five years, in both MW and MVARs. Also provide a plot of the MW loading for that day;
- (c) The loading at the time of system peak for the two Old Town 230/69 kV transformers for the last five years, in both MW and MVARs. Please also provide a plot in MW and MVARs for that day; and
- (d) The power flow that models Bay Boulevard.

SDG&E's Response to Question 3:

- (a) **Ten year system peak demand data is provided as an Excel icon:**



Embedded file is included below - see Data Request 15_3a



Embedded file is included below - see SDGE-ED16-Q3a_plots

Note that the peak demand data for 2002-2007 will be provided separately. The historical data system as currently configured is not providing correct data for these years – this data will be provided as soon as possible.

- (b) **Loading data and plots for South Bay substation for the last five years is provided as an Excel icon:**



Embedded file is included below - see Data Request 15_3b

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(c) Requested loading data and plots for the two Old Town transformers for the last five years is provided as an Excel icon:



Embedded file is included below - see Data Request 15_3c

(d) The power flow that models Bay Boulevard is attached below as an Adobe icon:



Embedded file is included below - see DR_16_q3d_bayblvd_power_flows

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In SDG&E's PTC application, SDG&E states that one of the reasons the South Bay substation needs to be relocated and rebuilt is because the existing substation contains or is made up of aging and obsolete equipment.

Question 4:

Please define what SDG&E means by aging and obsolete equipment.

SDG&E's Response to Question 4:

The control shelter and steel structures have been in service since the original construction of the substation in 1958-1960; more than 50 years old. Additionally, most of the substation equipment has been in service for 50 years as well.

The shelter contains the control and protection devices that are essential to the operation of every piece of equipment in the substation. It allows for local operation, remote control, and automatically and safely isolates faulted equipment from service. The existing control and power cables are direct buried; they should be replaced and installed in conduit for increased security and reliability. The control shelter needs to be replaced with a modern structure built to seismic standards, with increased security, better lighting, better station power, modern protective relays, and room for expansion. While it is technologically feasible to build a new control shelter within the existing South Bay substation, it is impractical due to space constraints and the need to keep the existing functionality in service during construction.

The steel structures are essential in keeping the high voltage wires suspended and need to be upgraded to current seismic standards. Replacement of these with a seismically qualified design will take up more space and likely result in limiting future transmission growth, additional land may be required, or substation components may need to be either eliminated or located elsewhere. While it is technologically feasible to replace some of the structural steel within the existing South Bay substation, it is impractical due to space constraints and the need to keep the existing functionality in service during construction. To illustrate, SDG&E would need to build temporary structures and transfer incremental portions of the high voltage wires between steel structures during the replacement. This work necessitates outage coordination with other parts of the system, temporarily reduces system reliability, requires additional switching and grounding operations, and results in increased labor hours due to working around energized equipment. This sequence has not been completely studied because it is dependent on future operational parameters at the time of replacement such as system configuration, generation outages, other system construction, and emergency contingencies. Because of these unknowns, complete replacement of the structural steel may not be feasible.

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Finally, the majority of the equipment on site is in need of replacement. Specifically the oil circuit breakers, used for interrupting faulted components, and high voltage disconnects, used to maintain crew safety, have lived their useful life. The existing Oil Circuit Breakers (OCBs) need to be replaced with Gas Circuit Breakers (GCBs) for increased operational capability and reduced maintenance. This is industry best practice and has been done on the SDG&E System. OCBs are also a potential fire source during a catastrophic failure, a potential environmental impact of oil leaks, and replacing the OCBs will increase reliability of the substation. High voltage disconnects are also past their useful life. Most of the OCBs and disconnects were manufactured by General Electric (GE) Co. GE has not manufactured those types of devices for a long time and replacement parts are hard to obtain.

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In response to question (3) of the CPUC's June 28, 2012 data request, SDG&E shows that within the last five years, SDG&E replaced or installed:

- 138/69kV transformer with a new 138/69kV transformer,
- 69kV Circuit Breaker 4S,
- 69kV Capacitor, and
- various control, protection, metering, and security upgrades and replacements.

Question 5:

- (a) Please provide the cost information for the above newly installed or replaced equipment.
- (b) Please provide a list of any and all equipment that SDG&E installed or replaced at the SouthBay substation within the last 30 years (SDG&E does not have to relist the above equipment that was replaced or newly installed within the last 5 years).
- (c) Please provide a list of equipment that has needed to be replaced at the SouthBay substation since it was put into service.
- (d) Please provide a list of substations/switchyards in SDG&E's service territory that have equipment in the same operational, but "aging and obsolete" state as found in the existing SouthBay substation.

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SDG&E's Response to Question 5:

(a) The table below represents the cost of the newly installed or replaced equipment:

	South Bay Equipment	Cost (\$MM)
1	Replaced 138/69kV transformer with a new 138/69kV transformer	\$4.3
2	Replaced 69kV Circuit Breaker 4S	\$0.1
3	Installed 69kV Capacitor	\$0.9
4	Replaced or installed various control, protection, metering, and security upgrades and replacements.	\$1.3

(b) SDG&E has installed or replaced the following equipment at the South Bay Substation within the last 30 years:

- Relocated 69kV TL646 to Bay 10N and added 69kV TL647 in Bay 11S (Installed two 169kV disconnects, one 69kV oil circuit breaker, and associated control and protection)
- Added 138kV TL13823 (Installed two 138kV disconnects, one 138kV oil circuit breaker, one steel dead-end structure, and associated control and protection)
- Replaced 138kV disconnect from 1200A with 2000A
- Replaced 69kV disconnect from 1200A with 2000A
- Replaced or installed various control, protection, metering, and station service equipment.

(c) South Bay Substation was placed into service prior to 1960, typically SDG&E does not retain records of equipment longer than 5 years past the date of removal from service. The table in (b) includes equipment that replaced equipment that has been removed from service since 1982. These replacements were needed to meet transmission load demands.

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(d) SDG&E will operate and maintain its substations to provide customers with a safe and reliable system. To meet this goal, SDG&E has rebuilt many substations that, as a whole, were in a similar “aging and obsolete” state as found in the existing South Bay Substation. For cost efficiency these rebuilds typically are completed concurrently with projects that meet other objectives such as planning to meet distribution or transmission load demands or to maintain compliance with regional system operator requirements. Most notably SDG&E upgraded the aging and obsolete 138/69kV Main Street Substation with the 230/69kV Silvergate Substation in 2008. Alternatively, SDG&E has replaced equipment in kind within existing substation where it makes economic sense. For example SDG&E routinely replaces oil circuit breakers (OCBs) with gas circuit breakers (GCBs) for increased operational capability and reduced maintenance.

SDG&E has identified the following list of aging and obsolete substations. These substations include those with pending capital improvement plans and those under evaluation for complete rebuilds or equipment replacement:

- 230/138/69/12kV Mission Substation
- 138/12kV Capistrano Substation
- 138/69kV South Bay Substation
- 138/69/12kV Los Coches Substation
- 88/69kV Narrows Substation
- 69/12kV Boulevard Substation
- 69/12kV Descanso Substation
- 69/12kV Kearny Substation
- 69/12kV Kettner Substation
- 69/12kV Morro Hill Substation
- 69/12kV Oceanside Substation
- 69/12/4kV Point Loma Substation
- 69/12kV Poway Substation
- 69/12kV Santa Ysabel Substation
- 69/12kV Streamview Substation
- 69/12kV Sunnyside Substation
- 69kV Wabash Switchyard
- 12/4kV Point Loma Sewage Substation
- 12/4kV Sewage Pump Station #1
- 12/4kV Sewage Pump Station #2

Bay Boulevard Delay Impacts

Bay Blvd Delay Impacts: 600 MW Transfer: 4700 MW to 5300 MW increase in SDGE Load, 2k/3k/4k Import

Max of Load (%)			2013 - Preproject			2015 - Post Project		
Cont. Name	Fr_Name	To_Name	bb_2013_2k	bb_2013_3k	bb_2013_4k	bb_2015_2k	bb_2015_3k	bb_2015_4k
G1/N1-EA4/50001B	BAY BLVD230.	MLMS3TAP230.					98.7	
	SYCAMORE230.	SYCAMORE138.					98.4	97.3
G1/N1-EA5/50001B	BAY BLVD230.	MLMS3TAP230.					99.3	
	SYCAMORE230.	SYCAMORE138.					95.2	
G1/N1-OMEC_123/50001A	PENSQTOS230.	OLD TOWN230.	95.9			95.2	102.3	
G1/N1-OMEC_123/50002	PENSQTOS230.	OLD TOWN230.	115	108.8			108.5	
G1/N1-OMEC_123/HDWSH-NG	PENSQTOS230.	OLD TOWN230.	119	113.5				
G1/N1-PEN_123/50001B	BAY BLVD230.	MLMS3TAP230.					98.6	
MIGUEL BK61	MIGUEL 230.	MIGUEL60138.		96	100.5		95.1	95.5
MIGUEL BK70	MIGUEL 69.0	MIGUEL 230.		98.5	101.2		99.9	97.8
MIGUEL BK71	MIGUEL 69.0	MIGUEL 230.		98.7	101.4		100.1	98.1
MIGUEL BK80	MIGUEL 230.	MIGUEL 500.			96.2			97.6
MIGUEL BK81	MIGUEL 230.	MIGUELMP500.			97.3			98.8
MISSION BK50	MISSION 138.	MISSION 69.0	121.3	115.8	113.8	112.5	118.6	111.3
MISSION BK52	MISSION 138.	MISSION 69.0	119.8	114.3	112.4	111.1	117.1	109.9
MISSION BK70	MISSION 138.	MISSION 69.0	102.6	96.4	95.5	96.8	100.4	
OLD TOWN BK70	OLD TOWN69.0	OLD TOWN230.	108.6	100.8	99.7	96.9	98.1	
OLD TOWN BK71	OLD TOWN69.0	OLD TOWN230.	108.6	100.8	99.7	96.9	98.1	
SOUTHBAY BK50	MIGUELTP69.0	MIGUEL 69.0	103.7					
	SANYSYRO69.0	OTAYLKTP69.0	99.7					
SYCAMORE BK70	SYCAMORE230.	SYCAMORE69.0					97.9	
SYCAMORE BK71	SYCAMORE230.	SYCAMORE69.0					97.3	
SYCAMORE BK72	SYCAMORE230.	SYCAMORE69.0					95.8	
TL13809	MIGUEL 230.	MIGUEL60138.			95.8			
TL13826	MIGUEL 230.	MIGUEL60138.		96	100.6		95	95.5
TL50001B	BAY BLVD230.	MLMS3TAP230.					95.3	
TL621	MIGUELTP69.0	MIGUEL 69.0	110.5		95.6			
TL623	OTAY 69.0	OTAYLKTP69.0					106.6	
	SANYSYRO69.0	OTAYLKTP69.0	97.6			95.3		
TL628	PARADISE69.0	MIGUEL 69.0	101.4					
TL643	MIGUEL 69.0	JAMACHA 69.0				99.6	97.2	
TL649	SANYSYRO69.0	OTAY TP69.0	99.5			96		
TL6910	OTAY 69.0	OTAYLKTP69.0		95.3			112	101.1

Bay Boulevard Deferral Impacts

Bay Boulevard Deferral Impacts: 600 MW Transfer; 4700 MW to 5300 MW of SDGE Load, 2k/3k/4k MW Import

voltage collapse

SDGE Load	Cont. Name	Fr_Name	Scenario To_Name	Pre-Project: 2013			Post-Project: 2015		
				bb_2013_2k	bb_2013_3k	bb_2013_4k	bb_2015_2k	bb_2015_3k	bb_2015_4k
4700	G1/N1-EA4/50001B	SYCAMORE230.	SYCAMORE138.						97.3
	G1/N1-OMEC_123/50002	PENSQTOS230.	OLD TOWN230.	99.3	106.6				
	G1/N1-OMEC_123/HDWSH-NG	PENSQTOS230.	OLD TOWN230.		112.4				
	G1/N1-PEN_123/50001A	SUNCREST230.	SYCAMORE230.						95.4
	MIGUEL BK61	MIGUEL 230.	MIGUEL60138.		95	100.5			95.5
	MIGUEL BK70	MIGUEL 69.0	MIGUEL 230.		97.2	101.2			97.8
	MIGUEL BK71	MIGUEL 69.0	MIGUEL 230.		97.5	101.4			98.1
	MIGUEL BK80	MIGUEL 230.	MIGUEL 500.			96.2			97.6
	MIGUEL BK81	MIGUEL 230.	MIGUELMP500.			97.3			98.8
	MISSION BK50	MISSION 138.	MISSION 69.0	109.5	114.7	113.8	100.7	109.8	111.3
	MISSION BK52	MISSION 138.	MISSION 69.0	108.2	113.3	112.4	99.5	108.4	109.9
	MISSION BK70	MISSION 138.	MISSION 69.0		95.2	95.5			
	OLD TOWN BK70	OLD TOWN69.0	OLD TOWN230.		99.5	99.7			
	OLD TOWN BK71	OLD TOWN69.0	OLD TOWN230.		99.5	99.7			
	PENSQTOS BK70	PENSQTOS230.	PENSQTOS69.0			100.5			
	PENSQTOS BK71	PENSQTOS230.	PENSQTOS69.0			99			
	TL13809	MIGUEL 230.	MIGUEL60138.			95.8			
	TL13826	MIGUEL 230.	MIGUEL60138.		95	100.6			95.5
	TL621	MIGUELTP69.0	MIGUEL 69.0	96.7		95.6			
	TL623	OTAY 69.0	OTAYLKTP69.0					95.5	
	TL6910	OTAY 69.0	OTAYLKTP69.0					100.9	101.1
4720	G1/N1-OMEC_123/50002	PENSQTOS230.	OLD TOWN230.		107.5				
	G1/N1-OMEC_123/HDWSH-NG	PENSQTOS230.	OLD TOWN230.		113.5				
	MIGUEL BK61	MIGUEL 230.	MIGUEL60138.		95.4				
	MIGUEL BK70	MIGUEL 69.0	MIGUEL 230.		97.7				
	MIGUEL BK71	MIGUEL 69.0	MIGUEL 230.		98				
	MISSION BK50	MISSION 138.	MISSION 69.0		115.1				
	MISSION BK52	MISSION 138.	MISSION 69.0		113.7				
	MISSION BK70	MISSION 138.	MISSION 69.0		95.7				
	OLD TOWN BK70	OLD TOWN69.0	OLD TOWN230.		100				
	OLD TOWN BK71	OLD TOWN69.0	OLD TOWN230.		100				
	TL13826	MIGUEL 230.	MIGUEL60138.		95.4				
4750	G1/N1-OMEC_123/50002	PENSQTOS230.	OLD TOWN230.	100.5	108.8				
	MIGUEL BK61	MIGUEL 230.	MIGUEL60138.		96				
	MIGUEL BK70	MIGUEL 69.0	MIGUEL 230.		98.5				
	MIGUEL BK71	MIGUEL 69.0	MIGUEL 230.		98.7				
	MISSION BK50	MISSION 138.	MISSION 69.0	110.5	115.8		101.7	110.8	
	MISSION BK52	MISSION 138.	MISSION 69.0	109.1	114.3		100.4	109.5	
	MISSION BK70	MISSION 138.	MISSION 69.0		96.4				
	OLD TOWN BK70	OLD TOWN69.0	OLD TOWN230.		100.8				
	OLD TOWN BK71	OLD TOWN69.0	OLD TOWN230.		100.8				
	PENSQTOS BK70	PENSQTOS230.	PENSQTOS69.0		95.8				
	TL13826	MIGUEL 230.	MIGUEL60138.		96				
	TL621	MIGUELTP69.0	MIGUEL 69.0	97.8					
	TL623	OTAY 69.0	OTAYLKTP69.0					96.9	
	TL6910	OTAY 69.0	OTAYLKTP69.0		95.3			102.2	

Bay Boulevard Deferral Impacts: 600 MW Transfer; 4700 MW to 5300 MW of SDGE Load, 2k/3k/4k MW Import

voltage collapse

SDGE Load	Cont. Name	Fr_Name	Scenario To_Name	Pre-Project: 2013			Post-Project: 2015		
				bb_2013_2k	bb_2013_3k	bb_2013_4k	bb_2015_2k	bb_2015_3k	bb_2015_4k
4800	G1/N1-OMEC_123/50002	PENSQTOS230.	OLD TOWN230.	101.7					
	MISSION BK50	MISSION 138.	MISSION 69.0	111.4			102.6	111.9	
	MISSION BK52	MISSION 138.	MISSION 69.0	110			101.3	110.5	
	TL621	MIGUELTP69.0	MIGUEL 69.0	98.9					
	TL623	OTAY 69.0	OTAYLKTP69.0					98.2	
	TL6910	OTAY 69.0	OTAYLKTP69.0					103.6	
4850	G1/N1-EA5/50001B	BAY BLVD230.	MLMS3TAP230.						95
	G1/N1-OMEC_123/50002	PENSQTOS230.	OLD TOWN230.	103					
	MISSION BK50	MISSION 138.	MISSION 69.0	112.4			103.6	113	
	MISSION BK52	MISSION 138.	MISSION 69.0	111			102.3	111.6	
	OLD TOWN BK70	OLD TOWN69.0	OLD TOWN230.	96.1					
	OLD TOWN BK71	OLD TOWN69.0	OLD TOWN230.	96.1					
	TL621	MIGUELTP69.0	MIGUEL 69.0	100.1					
	TL623	OTAY 69.0	OTAYLKTP69.0					99.5	
TL6910	OTAY 69.0	OTAYLKTP69.0					104.9		
4900	G1/N1-EA4/50001B	BAY BLVD230.	MLMS3TAP230.						95.3
	G1/N1-EA5/50001B	BAY BLVD230.	MLMS3TAP230.						95.8
	G1/N1-OMEC_123/50002	PENSQTOS230.	OLD TOWN230.	104.3					
	G1/N1-PEN_123/50001B	BAY BLVD230.	MLMS3TAP230.						95.2
	MIGUEL BK70	MIGUEL 69.0	MIGUEL 230.						95.4
	MIGUEL BK71	MIGUEL 69.0	MIGUEL 230.						95.6
	MISSION BK50	MISSION 138.	MISSION 69.0	113.3			104.5	114.1	
	MISSION BK52	MISSION 138.	MISSION 69.0	111.9			103.2	112.7	
	MISSION BK70	MISSION 138.	MISSION 69.0						95.7
	OLD TOWN BK70	OLD TOWN69.0	OLD TOWN230.	97.4					
	OLD TOWN BK71	OLD TOWN69.0	OLD TOWN230.	97.4					
	TL621	MIGUELTP69.0	MIGUEL 69.0	101.2					
	TL623	OTAY 69.0	OTAYLKTP69.0					100.9	
TL6910	OTAY 69.0	OTAYLKTP69.0					106.3		
4950	G1/N1-EA4/50001B	BAY BLVD230.	MLMS3TAP230.						96.1
		SYCAMORE230.	SYCAMORE138.						95.6
	G1/N1-EA5/50001B	BAY BLVD230.	MLMS3TAP230.						96.6
	G1/N1-OMEC_123/50002	PENSQTOS230.	OLD TOWN230.	105.6					
	G1/N1-OMEC_123/HDWSH-NG	PENSQTOS230.	OLD TOWN230.	109.6					
	G1/N1-PEN_123/50001B	BAY BLVD230.	MLMS3TAP230.						96
	MIGUEL BK70	MIGUEL 69.0	MIGUEL 230.						96.5
	MIGUEL BK71	MIGUEL 69.0	MIGUEL 230.						96.7
	MISSION BK50	MISSION 138.	MISSION 69.0	114.3			105.5	115.2	
	MISSION BK52	MISSION 138.	MISSION 69.0	112.9			104.2	113.7	
	MISSION BK70	MISSION 138.	MISSION 69.0						96.8
	OLD TOWN BK70	OLD TOWN69.0	OLD TOWN230.	98.8					
	OLD TOWN BK71	OLD TOWN69.0	OLD TOWN230.	98.8					
	SOUTHBAY BK50	MIGUELTP69.0	MIGUEL 69.0	95.3					
	TL621	MIGUELTP69.0	MIGUEL 69.0	102.4					
TL623	OTAY 69.0	OTAYLKTP69.0					102.3		
TL6910	OTAY 69.0	OTAYLKTP69.0					107.7		

Bay Boulevard Deferral Impacts: 600 MW Transfer; 4700 MW to 5300 MW of SDGE Load, 2k/3k/4k MW Import

voltage collapse

SDGE Load	Cont. Name	Fr_Name	Scenario To_Name	Pre-Project: 2013			Post-Project: 2015		
				bb_2013_2k	bb_2013_3k	bb_2013_4k	bb_2015_2k	bb_2015_3k	bb_2015_4k
5000	G1/N1-EA4/50001B	BAY BLVD230.	MLMS3TAP230.					96.9	
		SYCAMORE230.	SYCAMORE138.					96.5	
	G1/N1-EA5/50001B	BAY BLVD230.	MLMS3TAP230.					97.5	
	G1/N1-OMEC_123/50001A	PENSQTOS230.	OLD TOWN230.					97.6	
	G1/N1-OMEC_123/50002	PENSQTOS230.	OLD TOWN230.	106.9				105.1	
	G1/N1-OMEC_123/HDWSH-NG	PENSQTOS230.	OLD TOWN230.	110.9					
	G1/N1-PEN_123/50001B	BAY BLVD230.	MLMS3TAP230.					96.8	
	MIGUEL BK70	MIGUEL 69.0	MIGUEL 230.					97.6	
	MIGUEL BK71	MIGUEL 69.0	MIGUEL 230.					97.9	
	MISSION BK50	MISSION 138.	MISSION 69.0	115.2			106.4	116.3	
	MISSION BK52	MISSION 138.	MISSION 69.0	113.8			105.1	114.8	
	MISSION BK70	MISSION 138.	MISSION 69.0	95.9				98	
	OLD TOWN BK70	OLD TOWN69.0	OLD TOWN230.	100.1				95.6	
	OLD TOWN BK71	OLD TOWN69.0	OLD TOWN230.	100.1				95.6	
	PENSQTOS BK70	PENSQTOS230.	PENSQTOS69.0					96.3	
	SOUTHBAY BK50	MIGUELTP69.0	MIGUEL 69.0	96.5					
	SYCAMORE BK70	SYCAMORE230.	SYCAMORE69.0					95.8	
	SYCAMORE BK71	SYCAMORE230.	SYCAMORE69.0					95.2	
	TL621	MIGUELTP69.0	MIGUEL 69.0	103.5					
	TL623	OTAY 69.0	OTAYLKTP69.0					103.7	
	TL6910	OTAY 69.0	OTAYLKTP69.0					109.1	
5050	G1/N1-EA4/50001B	BAY BLVD230.	MLMS3TAP230.					97.8	
		SYCAMORE230.	SYCAMORE138.					97.4	
	G1/N1-EA5/50001B	BAY BLVD230.	MLMS3TAP230.					98.4	
	G1/N1-OMEC_123/50001A	PENSQTOS230.	OLD TOWN230.					102.3	
	G1/N1-OMEC_123/50002	PENSQTOS230.	OLD TOWN230.	108.2				106.8	
	G1/N1-OMEC_123/HDWSH-NG	PENSQTOS230.	OLD TOWN230.	112.2					
	G1/N1-PEN_123/50001B	BAY BLVD230.	MLMS3TAP230.					97.7	
	MIGUEL BK70	MIGUEL 69.0	MIGUEL 230.					98.7	
	MIGUEL BK71	MIGUEL 69.0	MIGUEL 230.					99	
	MISSION BK50	MISSION 138.	MISSION 69.0	116.2			107.4	117.4	
	MISSION BK52	MISSION 138.	MISSION 69.0	114.8			106.1	115.9	
	MISSION BK70	MISSION 138.	MISSION 69.0	97				99.2	
	OLD TOWN BK70	OLD TOWN69.0	OLD TOWN230.	101.5				96.8	
	OLD TOWN BK71	OLD TOWN69.0	OLD TOWN230.	101.5				96.8	
	PENSQTOS BK70	PENSQTOS230.	PENSQTOS69.0					97.7	
	PENSQTOS BK71	PENSQTOS230.	PENSQTOS69.0					96.2	
	SOUTHBAY BK50	MIGUELTP69.0	MIGUEL 69.0	97.7					
		SANYSDRO69.0	OTAYLKTP69.0	95.2					
	SYCAMORE BK70	SYCAMORE230.	SYCAMORE69.0					96.8	
	SYCAMORE BK71	SYCAMORE230.	SYCAMORE69.0					96.2	
	TL621	MIGUELTP69.0	MIGUEL 69.0	104.7					
	TL623	OTAY 69.0	OTAYLKTP69.0					105.1	
	TL628	PARADISE69.0	MIGUEL 69.0	95.9					
	TL643	MIGUEL 69.0	JAMACHA 69.0					96	
	TL6910	OTAY 69.0	OTAYLKTP69.0					110.5	

Bay Boulevard Deferral Impacts: 600 MW Transfer; 4700 MW to 5300 MW of SDGE Load, 2k/3k/4k MW Import

voltage collapse

SDGE Load	Cont. Name	Fr_Name	Scenario To_Name	Pre-Project: 2013			Post-Project: 2015		
				bb_2013_2k	bb_2013_3k	bb_2013_4k	bb_2015_2k	bb_2015_3k	bb_2015_4k
5070	G1/N1-EA4/50001B	BAY BLVD230.	MLMS3TAP230.					98.1	
		SYCAMORE230.	SYCAMORE138.					97.8	
	G1/N1-EA5/50001B	BAY BLVD230.	MLMS3TAP230.					98.7	
	G1/N1-OMEC_123/50002	PENSQTOS230.	OLD TOWN230.					107.4	
	G1/N1-PEN_123/50001B	BAY BLVD230.	MLMS3TAP230.					98.1	
	MIGUEL BK70	MIGUEL 69.0	MIGUEL 230.					99.2	
	MIGUEL BK71	MIGUEL 69.0	MIGUEL 230.					99.4	
	MISSION BK50	MISSION 138.	MISSION 69.0					117.9	
	MISSION BK52	MISSION 138.	MISSION 69.0					116.4	
	MISSION BK70	MISSION 138.	MISSION 69.0					99.7	
	OLD TOWN BK70	OLD TOWN69.0	OLD TOWN230.					97.3	
	OLD TOWN BK71	OLD TOWN69.0	OLD TOWN230.					97.3	
	PENSQTOS BK70	PENSQTOS230.	PENSQTOS69.0					98.2	
	PENSQTOS BK71	PENSQTOS230.	PENSQTOS69.0					96.8	
	SYCAMORE BK70	SYCAMORE230.	SYCAMORE69.0					97.3	
	SYCAMORE BK71	SYCAMORE230.	SYCAMORE69.0					96.6	
	SYCAMORE BK72	SYCAMORE230.	SYCAMORE69.0					95.1	
	TL623	OTAY 69.0	OTAYLKTP69.0					105.7	
	TL643	MIGUEL 69.0	JAMACHA 69.0					96.5	
	TL6910	OTAY 69.0	OTAYLKTP69.0					111.1	
5100	G1/N1-EA4/50001B	BAY BLVD230.	MLMS3TAP230.					98.7	
		SYCAMORE230.	SYCAMORE138.					98.4	
	G1/N1-EA5/50001B	BAY BLVD230.	MLMS3TAP230.					99.3	
		SYCAMORE230.	SYCAMORE138.					95.2	
	G1/N1-OMEC_123/50002	PENSQTOS230.	OLD TOWN230.	109.5				108.5	
	G1/N1-OMEC_123/HDWSH-NG	PENSQTOS230.	OLD TOWN230.	113.5					
	G1/N1-PEN_123/50001B	BAY BLVD230.	MLMS3TAP230.					98.6	
	MIGUEL BK61	MIGUEL 230.	MIGUEL60138.					95.1	
	MIGUEL BK70	MIGUEL 69.0	MIGUEL 230.					99.9	
	MIGUEL BK71	MIGUEL 69.0	MIGUEL 230.					100.1	
	MISSION BK50	MISSION 138.	MISSION 69.0	117.2			108.4	118.6	
	MISSION BK52	MISSION 138.	MISSION 69.0	115.8			107.1	117.1	
	MISSION BK70	MISSION 138.	MISSION 69.0	98.1				100.4	
	OLD TOWN BK70	OLD TOWN69.0	OLD TOWN230.	102.9				98.1	
	OLD TOWN BK71	OLD TOWN69.0	OLD TOWN230.	102.9				98.1	
	PENSQTOS BK70	PENSQTOS230.	PENSQTOS69.0					99.1	
	PENSQTOS BK71	PENSQTOS230.	PENSQTOS69.0					97.6	
	SOUTHBAY BK50	MIGUELTP69.0	MIGUEL 69.0	98.9					
		SANYSDRO69.0	OTAYLKTP69.0	96.1					
	SYCAMORE BK70	SYCAMORE230.	SYCAMORE69.0					97.9	
	SYCAMORE BK71	SYCAMORE230.	SYCAMORE69.0					97.3	
	SYCAMORE BK72	SYCAMORE230.	SYCAMORE69.0					95.8	
	TL13826	MIGUEL 230.	MIGUEL60138.					95	
	TL50001B	BAY BLVD230.	MLMS3TAP230.					95.3	
	TL621	MIGUELTP69.0	MIGUEL 69.0	105.8					
	TL623	OTAY 69.0	OTAYLKTP69.0					106.6	
	TL628	PARADISE69.0	MIGUEL 69.0	97					
	TL643	MIGUEL 69.0	JAMACHA 69.0				95.3	97.2	
	TL6910	OTAY 69.0	OTAYLKTP69.0					112	
5150	G1/N1-OMEC_123/50002	PENSQTOS230.	OLD TOWN230.	110.9					
	G1/N1-OMEC_123/HDWSH-NG	PENSQTOS230.	OLD TOWN230.	114.9					
	MISSION BK50	MISSION 138.	MISSION 69.0	118.2			109.4		

Bay Boulevard Deferral Impacts: 600 MW Transfer; 4700 MW to 5300 MW of SDGE Load, 2k/3k/4k MW Import

voltage collapse

SDGE Load	Cont. Name	Fr_Name	Scenario To_Name	Pre-Project: 2013			Post-Project: 2015		
				bb_2013_2k	bb_2013_3k	bb_2013_4k	bb_2015_2k	bb_2015_3k	bb_2015_4k
	MISSION BK52	MISSION 138.	MISSION 69.0	116.8			108.1		
	MISSION BK70	MISSION 138.	MISSION 69.0	99.2					
	OLD TOWN BK70	OLD TOWN69.0	OLD TOWN230.	104.3					
	OLD TOWN BK71	OLD TOWN69.0	OLD TOWN230.	104.3					
	SOUTHBAY BK50	MIGUELTP69.0	MIGUEL 69.0	100.1					
		SANYSDRO69.0	OTAYLKTP69.0	97					
	TL621	MIGUELTP69.0	MIGUEL 69.0	107					
	TL628	PARADISE69.0	MIGUEL 69.0	98.1					
	TL643	MIGUEL 69.0	JAMACHA 69.0				96.4		
	TL649	SANYSDRO69.0	OTAY TP69.0	96					
5200	G1/N1-OMEC_123/50002	PENSQTOS230.	OLD TOWN230.	112.2					
	G1/N1-OMEC_123/HDWSH-NG	PENSQTOS230.	OLD TOWN230.	116.3					
	MISSION BK50	MISSION 138.	MISSION 69.0	119.2			110.4		
	MISSION BK52	MISSION 138.	MISSION 69.0	117.8			109.1		
	MISSION BK70	MISSION 138.	MISSION 69.0	100.3					
	OLD TOWN BK70	OLD TOWN69.0	OLD TOWN230.	105.7					
	OLD TOWN BK71	OLD TOWN69.0	OLD TOWN230.	105.7					
	PENSQTOS BK70	PENSQTOS230.	PENSQTOS69.0	95.6					
	SOUTHBAY BK50	MIGUELTP69.0	MIGUEL 69.0	101.2					
		SANYSDRO69.0	OTAYLKTP69.0	97.9					
	TL621	MIGUELTP69.0	MIGUEL 69.0	108.2					
	TL623	SANYSDRO69.0	OTAYLKTP69.0	95.4					
	TL628	PARADISE69.0	MIGUEL 69.0	99.2					
	TL643	MIGUEL 69.0	JAMACHA 69.0				97.4		
	TL649	SANYSDRO69.0	OTAY TP69.0	97.1					
5250	G1/N1-OMEC_123/50002	PENSQTOS230.	OLD TOWN230.	113.6					
	G1/N1-OMEC_123/HDWSH-NG	PENSQTOS230.	OLD TOWN230.	117.6					
	MISSION BK50	MISSION 138.	MISSION 69.0	120.3			111.5		
	MISSION BK52	MISSION 138.	MISSION 69.0	118.8			110.1		
	MISSION BK70	MISSION 138.	MISSION 69.0	101.5			95.8		
	OLD TOWN BK70	OLD TOWN69.0	OLD TOWN230.	107.1			95.7		
	OLD TOWN BK71	OLD TOWN69.0	OLD TOWN230.	107.1			95.7		
	PENSQTOS BK70	PENSQTOS230.	PENSQTOS69.0	97					
	PENSQTOS BK71	PENSQTOS230.	PENSQTOS69.0	95.5					
	SOUTHBAY BK50	MIGUELTP69.0	MIGUEL 69.0	102.5					
		SANYSDRO69.0	OTAYLKTP69.0	98.8					
	TL621	MIGUELTP69.0	MIGUEL 69.0	109.4					
	TL623	SANYSDRO69.0	OTAYLKTP69.0	96.5					
	TL628	PARADISE69.0	MIGUEL 69.0	100.3					
	TL643	MIGUEL 69.0	JAMACHA 69.0				98.5		
	TL649	SANYSDRO69.0	OTAY TP69.0	98.3					

Bay Boulevard Deferral Impacts: 600 MW Transfer; 4700 MW to 5300 MW of SDGE Load, 2k/3k/4k MW Import

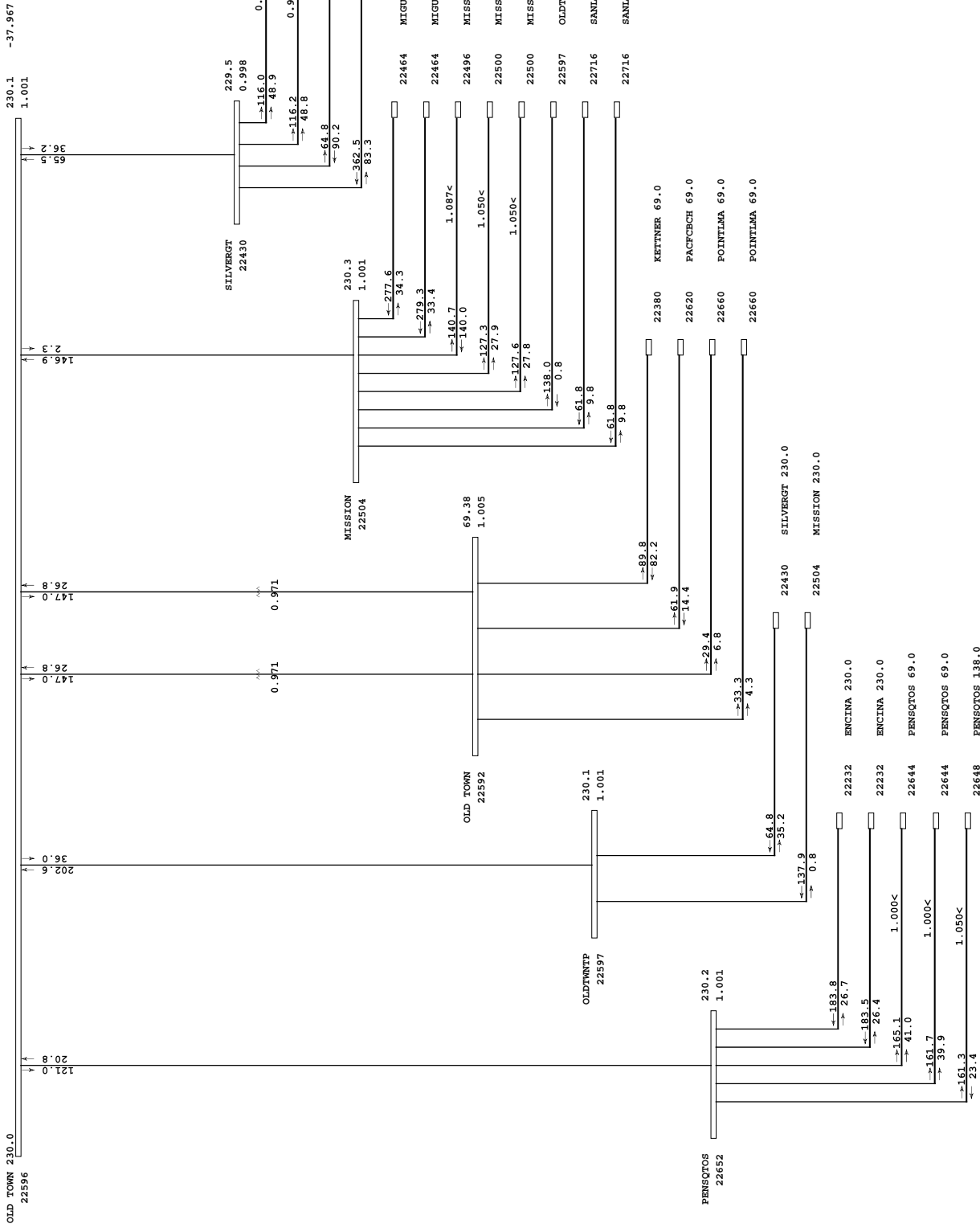
voltage collapse

SDGE Load	Cont. Name	Fr_Name	Scenario To_Name	Pre-Project: 2013			Post-Project: 2015		
				bb_2013_2k	bb_2013_3k	bb_2013_4k	bb_2015_2k	bb_2015_3k	bb_2015_4k
5300	G1/N1-OMEC_123/50001A	PENSQTOS230.	OLD TOWN230.	95.9			95.2		
	G1/N1-OMEC_123/50002	PENSQTOS230.	OLD TOWN230.	115					
	G1/N1-OMEC_123/HDWSH-NG	PENSQTOS230.	OLD TOWN230.	119					
	MISSION BK50	MISSION 138.	MISSION 69.0	121.3			112.5		
	MISSION BK52	MISSION 138.	MISSION 69.0	119.8			111.1		
	MISSION BK70	MISSION 138.	MISSION 69.0	102.6			96.8		
	OLD TOWN BK70	OLD TOWN69.0	OLD TOWN230.	108.6			96.9		
	OLD TOWN BK71	OLD TOWN69.0	OLD TOWN230.	108.6			96.9		
	PENSQTOS BK70	PENSQTOS230.	PENSQTOS69.0	98.3					
	PENSQTOS BK71	PENSQTOS230.	PENSQTOS69.0	96.9					
	SOUTHBAY BK50	MIGUELTP69.0	MIGUEL 69.0	103.7					
		SANYSDRO69.0	OTAYLKTP69.0	99.7					
	TL621	MIGUELTP69.0	MIGUEL 69.0	110.5					
	TL623	SANYSDRO69.0	OTAYLKTP69.0	97.6			95.3		
	TL628	PARADISE69.0	MIGUEL 69.0	101.4					
	TL643	MIGUEL 69.0	JAMACHA 69.0				99.6		
	TL649	SANYSDRO69.0	OTAY TP69.0	99.5			96		

Transformer Plots

SDG&E _____ Response
A. 10-06-007 South Bay Substation Relocation Project PTC
Energy Division Data Request 16 Dated September 4, 2012
SDGE-ED-016: Questions 1-5

Q1(A) Power flow plots of Old Town 230/69 kV transformers, banks 70 and 71. System model is for year 2014, system load level 5193 MW. Loading units are MW/MVAR.

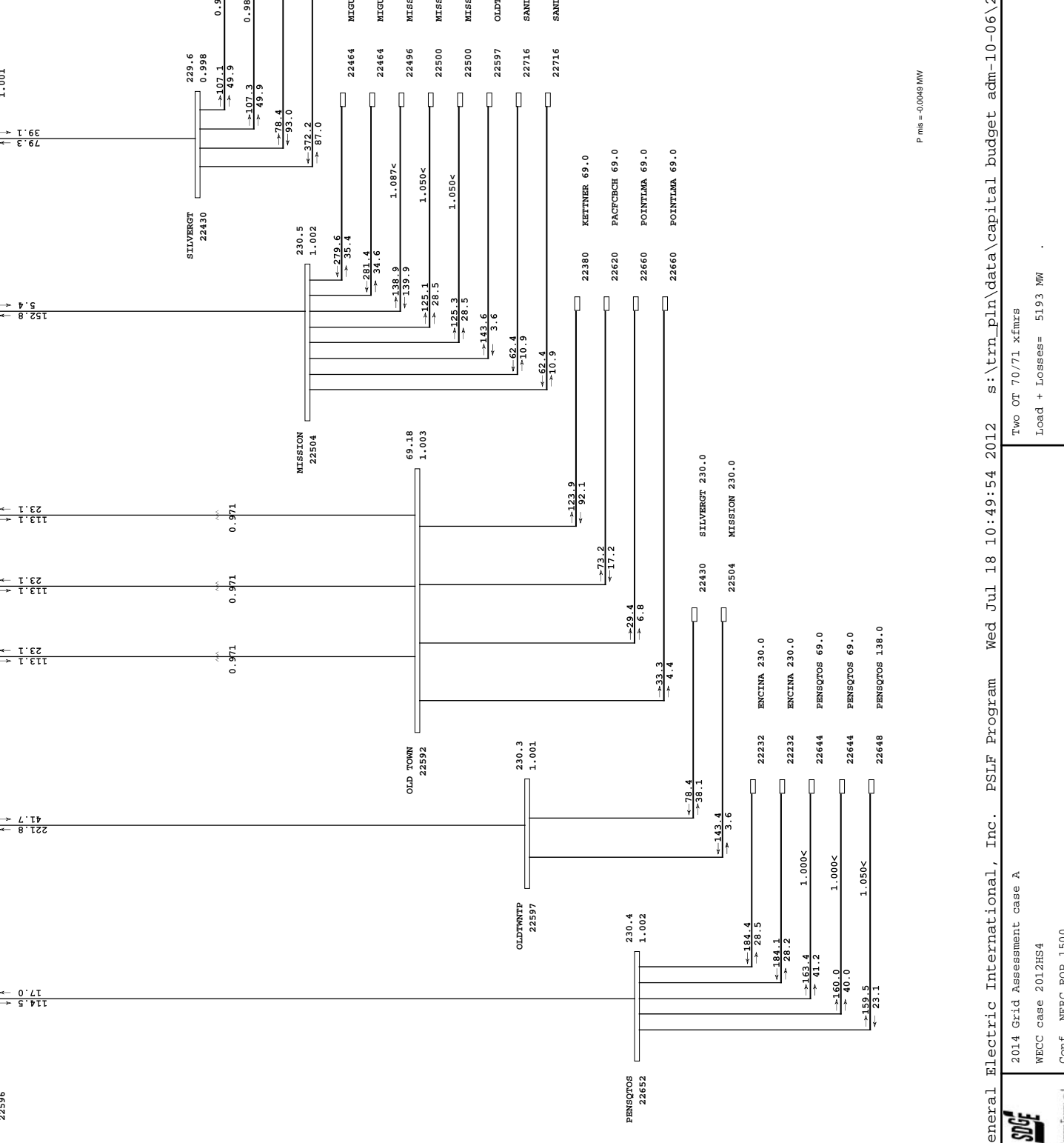


P mis = 0.0013 MW
 O mis = 0.0005 MVAR

SDG&E _____ Response
A. 10-06-007 South Bay Substation Relocation Project PTC
Energy Division Data Request 16 Dated September 4, 2012
SDGE-ED-016: Questions 1-5

Q1(A) Power flow plots of Old Town 230/69 kV transformers, banks 70 and 71 and a third identical transformer added to the model. System model is for year 2014, system load level 5193 MW. Loading units are MW/MVAR.

230.3 -38.007
1.001

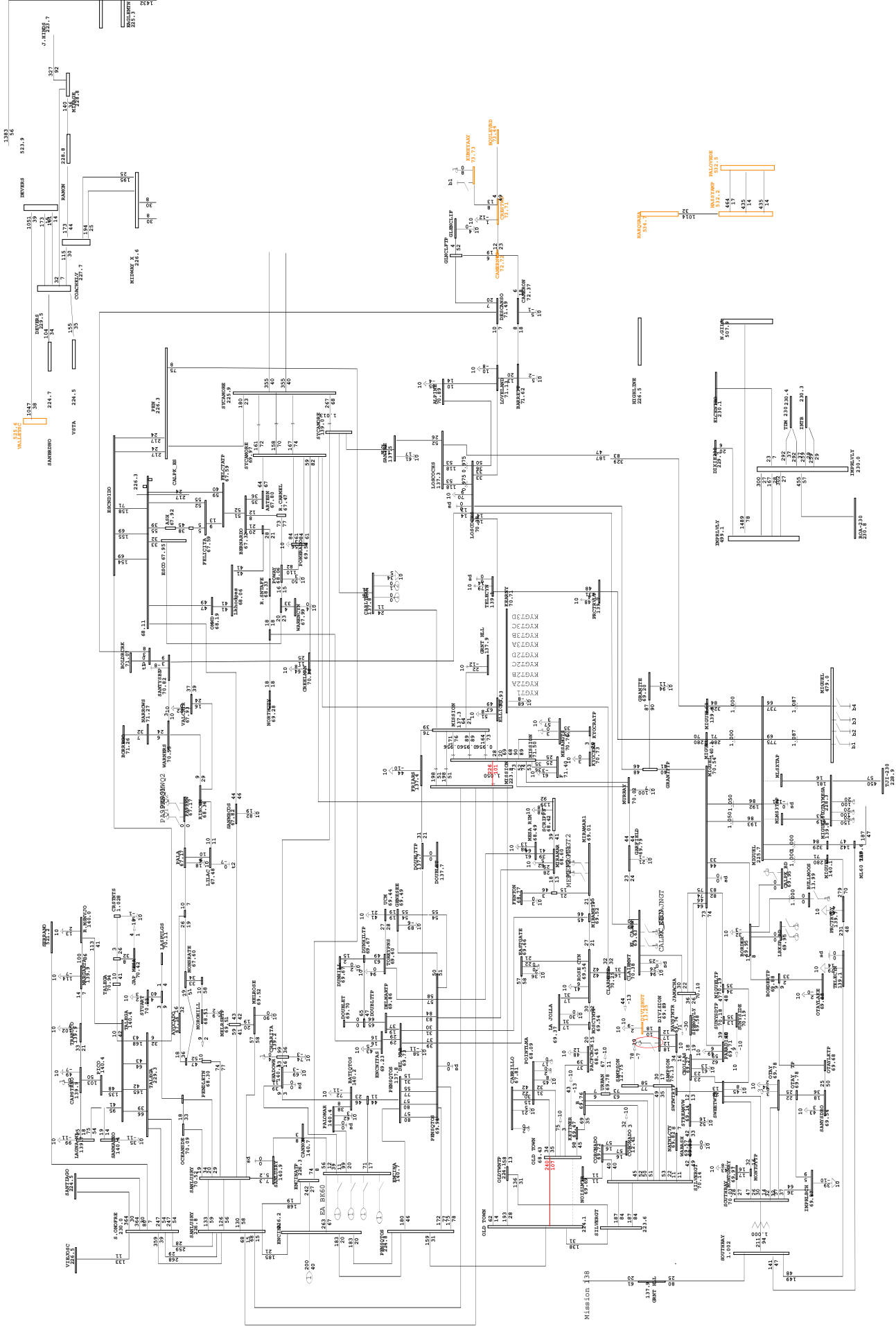


P mis = 0.0049 MW
G mis = 0.0012 MVAR



SDG&E _____ Response
A. 10-06-007 South Bay Substation Relocation Project PTC
Energy Division Data Request 16 Dated September 4, 2012
SDGE-ED-016: Questions 1-5

Q1(A) Power flow plots of Old Town transformer T-1 and Naval Station QF outage simulation, G-1/T-1. Model is for year 2013, 5118 MW of forecasted load. The simulated outage causes an overload on the Old Town transformer remaining in service as well as on the Mission 230/69 kV transformer. Loading units are MVA/%rating.



General Electric International, Inc. PSLF Program Wed Jul 25 09:48:22 2012 c:\sstools\5_1\2013_AR3.sav

MVA/Rate
drawn\gs_bulk_2013.ch
Rating = 1

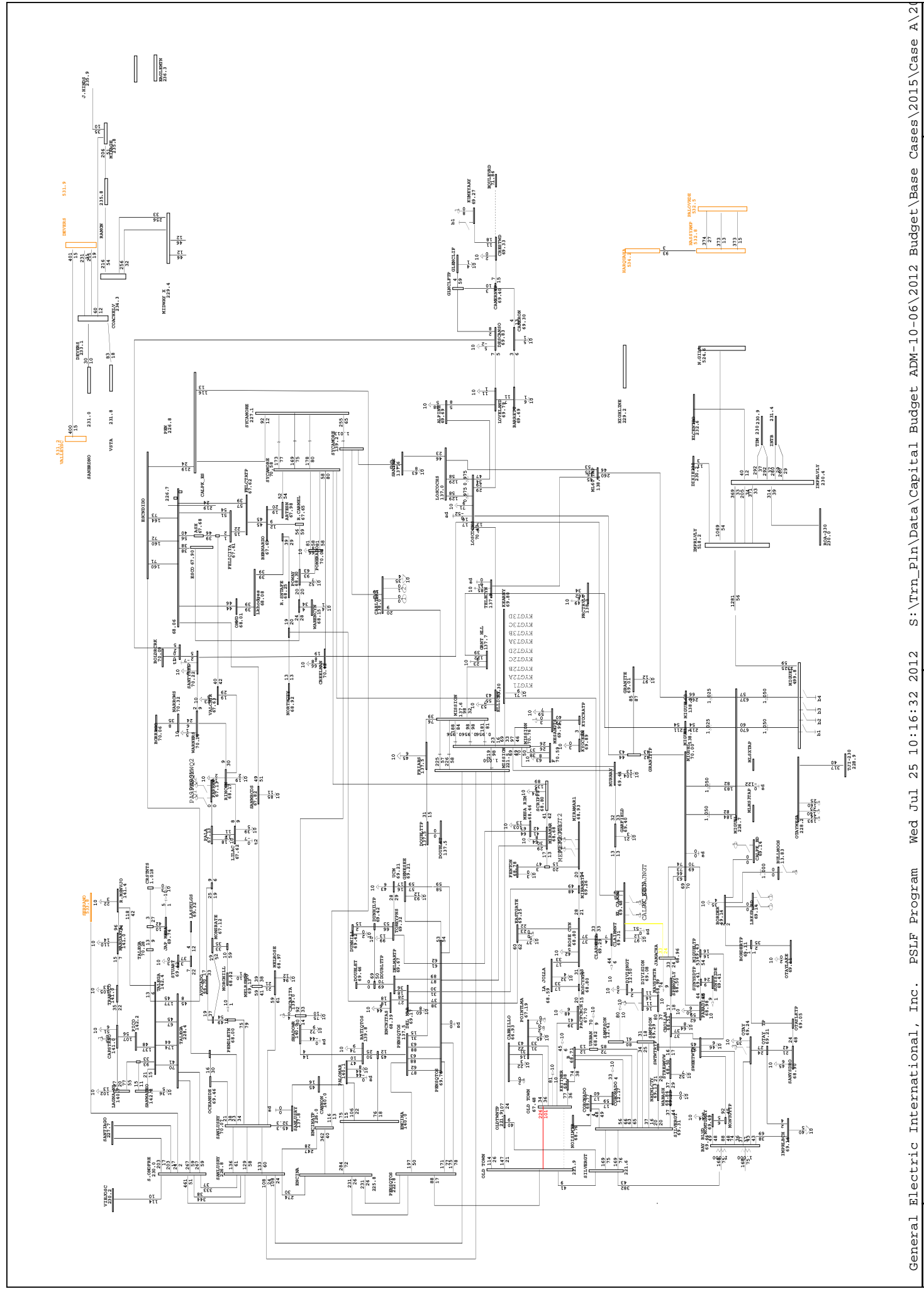
- This is confidential data -
Load + Losses= 5118.8 MW

2013 Grid Assessment case A
WECC case 2012HS4
Conf. NERC ROP 1500



SDG&E _____ Response
A. 10-06-007 South Bay Substation Relocation Project PTC
Energy Division Data Request 16 Dated September 4, 2012
SDGE-ED-016: Questions 1-5

Q1(A) Same as previous plot except system load scaled to year 2015 forecasted peak load level of 5297 MW including losses. The plot is of Old Town transformer T-1 and Naval Station QF outage simulation, G-1/T-1. The simulated outage causes an overload on the Old Town transformer remaining in service as well as on the Mission 230/69 kV transformer. Loading units are MVA/%rating.

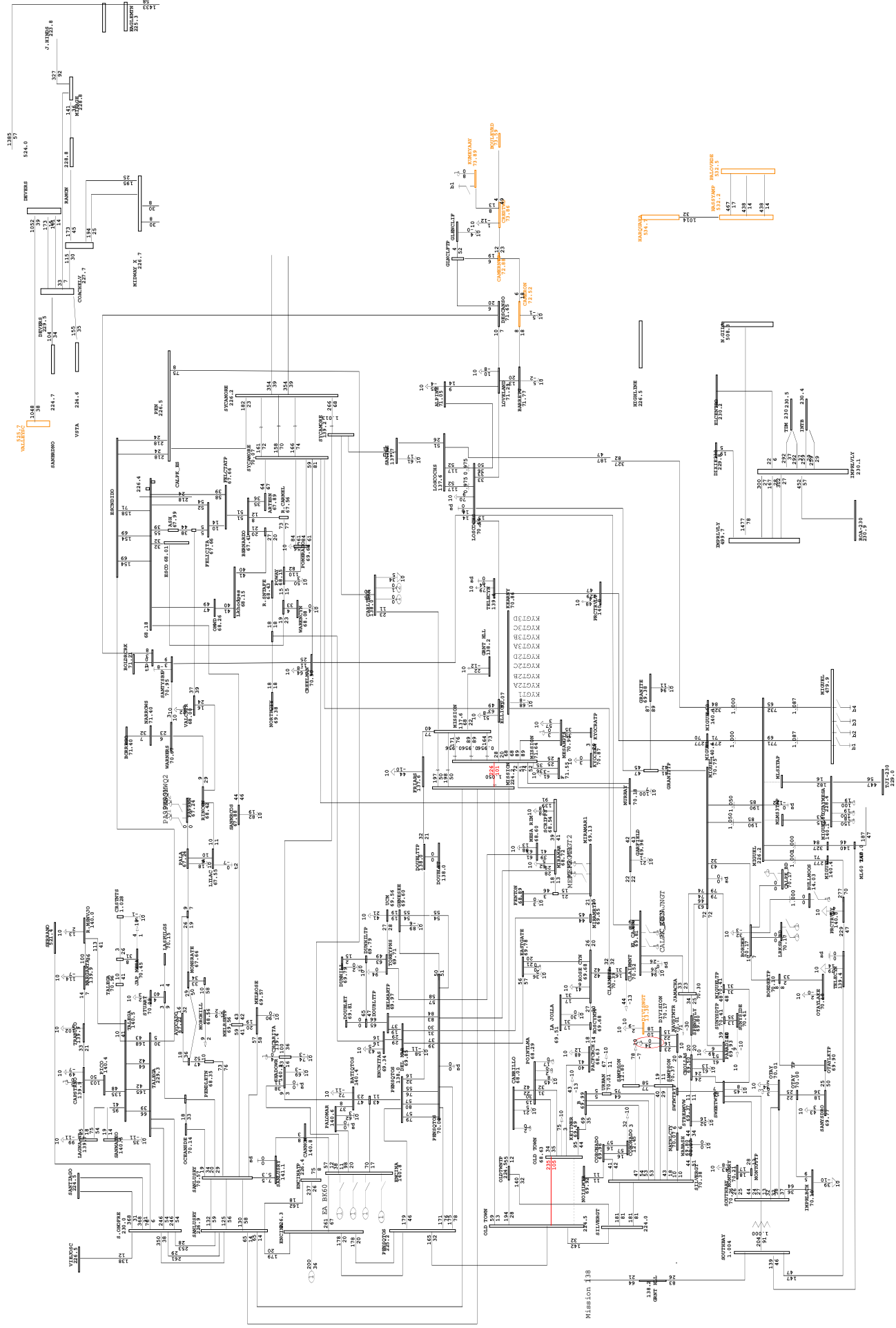


- This is confidential data -
 Load + Losses = 5297 MW



SDG&E _____ Response
A. 10-06-007 South Bay Substation Relocation Project PTC
Energy Division Data Request 16 Dated September 4, 2012
SDGE-ED-016: Questions 1-5

Q1(A) Power flow plot of Old Town transformer T-1 and Naval Station QF remains on-line at 34 MW output, T-1. Model is for year 2013, 5118 MW of forecasted load. The simulated outage causes an overload on the Old Town transformer remaining in service as well as on the Mission 230/69 kV transformer. Loading units are MVA/%rating.



General Electric International, Inc. PSLF Program Wed Jul 25 09:46:16 2012 c:\sstools\5_1\2013_AR3.sav

2013 Grid Assessment case A
 WECC case 2012HS4
 Conf. NERC ROP 1500

- This is confidential data -
 Load + Losses= 5118.8 MW

MVA/Rate
 draws\gs_bulk_2013.ch
 Rating = 1



1b
 9/3/07 13:00
 9/3/07 17:00
 15m

4636_1400

SYSLOAD
NO DATA

DATE	T-RTCALC-SYSLOAD MW	T-OT-230_BK_70_MW	T-OT-230_BK_70_MVAR	T-OT-230_BK_71_MW	T-OT-230_BK_71_MVAR	T-SY 138/69-138_BK_50_MW1	T-SY 138/69-138_BK_50_MVAR1	T-SG-230_BK_70_MW	T-SG-230_BK_70_MVAR	T-SG-230_BK_72_MW	T-SG-230_BK_72_MVAR	T-OT-69-69_BK_30_MW	T-OT-69_BK_30_MVAR	T-OT-69_BK_31_MW	T-OT-69_BK_31_MVAR	T-OT-69-69_BK_32_MW	T-OT-69_BK_32_MVAR
03-Sep-07 13:00:00	No Data	104.10	2.28	103.53	0.43	-68.64	-29.20	No Data	No Data	No Data	No Data	Shutdown	6.35	20.67	6.67	Shutdown	No Data
03-Sep-07 13:15:00	No Data	104.22	1.85	104.01	0.15	-68.89	-28.88	No Data	No Data	No Data	No Data	Shutdown	6.21	20.63	6.65	Shutdown	No Data
03-Sep-07 13:30:00	No Data	104.54	1.42	104.31	-0.13	-66.78	-28.56	No Data	No Data	No Data	No Data	Shutdown	6.07	20.59	6.64	Shutdown	No Data
03-Sep-07 13:45:00	No Data	105.51	0.95	104.92	-0.42	-66.78	-28.24	No Data	No Data	No Data	No Data	Shutdown	5.93	20.56	6.62	Shutdown	No Data
03-Sep-07 14:00:00	No Data	107.52	0.40	107.38	-1.26	-72.53	-27.92	No Data	No Data	No Data	No Data	Shutdown	5.79	20.52	6.60	Shutdown	No Data
03-Sep-07 14:15:00	No Data	109.72	0.02	109.47	-2.24	-68.35	-28.79	No Data	No Data	No Data	No Data	Shutdown	5.64	20.48	6.58	Shutdown	No Data
03-Sep-07 14:30:00	No Data	109.02	-4.49	108.80	-6.21	-67.14	-24.88	No Data	No Data	No Data	No Data	Shutdown	5.61	20.45	6.58	Shutdown	No Data
03-Sep-07 14:45:00	No Data	106.56	-4.52	105.86	-6.15	-68.65	-21.17	No Data	No Data	No Data	No Data	Shutdown	5.77	20.41	6.58	Shutdown	No Data
03-Sep-07 15:00:00	No Data	105.27	-4.54	105.25	-6.08	-69.38	-22.10	No Data	No Data	No Data	No Data	Shutdown	5.93	20.37	6.59	Shutdown	No Data
03-Sep-07 15:15:00	No Data	104.95	-4.56	104.20	-6.02	-69.48	-21.54	No Data	No Data	No Data	No Data	Shutdown	6.08	20.34	6.60	Shutdown	No Data
03-Sep-07 15:30:00	No Data	104.62	-4.58	104.16	-5.95	-69.59	-20.98	No Data	No Data	No Data	No Data	Shutdown	6.24	20.30	6.60	Shutdown	No Data
03-Sep-07 15:45:00	No Data	104.18	-4.60	103.95	-5.89	-69.30	-20.83	No Data	No Data	No Data	No Data	Shutdown	6.40	20.26	6.61	Shutdown	No Data
03-Sep-07 16:00:00	No Data	103.89	-4.62	103.70	-5.83	-68.98	-21.10	No Data	No Data	No Data	No Data	Shutdown	6.56	20.22	6.62	Shutdown	No Data
03-Sep-07 16:15:00	No Data	104.22	-4.64	103.25	-5.77	-68.71	-21.37	No Data	No Data	No Data	No Data	Shutdown	6.72	20.19	6.62	Shutdown	No Data
03-Sep-07 16:30:00	No Data	104.08	-4.66	103.54	-6.30	-68.45	-21.63	No Data	No Data	No Data	No Data	Shutdown	6.87	20.15	6.63	Shutdown	No Data
03-Sep-07 16:45:00	No Data	103.41	-4.68	103.25	-6.83	-67.85	-21.90	No Data	No Data	No Data	No Data	Shutdown	7.03	20.11	5.52	Shutdown	No Data
03-Sep-07 17:00:00	No Data	104.98	-3.69	104.42	-5.69	-64.64	-22.02	No Data	No Data	No Data	No Data	Shutdown	5.92	20.08	5.46	Shutdown	No Data

1b
 10/1/08 13:00
 10/1/08 17:00
 15m

4332_1452

DATE	T:RTCALC-SYSLOAD_MW	T:OT:230_BK_70_MW	T:OT:230_BK_70_MVAR	T:OT:230_BK_71_MW	T:OT:230_BK_71_MVAR	T:SY 138/69:138_BK_50_MW1	T:SY 138/69:138_BK_50_MVAR1	T:SG:230_BK_70_MW	T:SG:230_BK_70_MVAR	T:SG:230_BK_72_MW	T:SG:230_BK_72_MVAR	T:OT 69:69_BK_30_MW	T:OT 69_BK_30_MVAR	T:OT 69_BK_31_MW	T:OT 69_BK_31_MVAR	T:OT 69:69_BK_32_MW	T:OT 69_BK_32_MVAR
01-Oct-08 13:00:00	4218.69	122.46	-4.49	122.61	-6.10	-98.25	-28.63	No Data	No Data	No Data	No Data	Shutdown	0.32	23.12	0.06	Shutdown	No Data
01-Oct-08 13:15:00	4238.46	122.81	-6.30	122.39	-7.50	-98.81	-26.40	No Data	No Data	No Data	No Data	Shutdown	0.37	23.24	0.07	Shutdown	No Data
01-Oct-08 13:30:00	4261.61	123.29	-6.32	122.94	-7.47	-99.23	-26.31	No Data	No Data	No Data	No Data	Shutdown	0.43	23.35	0.07	Shutdown	No Data
01-Oct-08 13:45:00	4224.22	122.43	-6.35	122.10	-7.44	-98.42	-26.22	No Data	No Data	No Data	No Data	Shutdown	0.49	23.47	0.08	Shutdown	No Data
01-Oct-08 14:00:00	4214.77	120.75	-6.30	120.56	-7.41	-99.07	-26.13	No Data	No Data	No Data	No Data	Shutdown	0.55	23.58	0.09	Shutdown	No Data
01-Oct-08 14:15:00	4219.46	120.57	-5.85	120.27	-7.38	-99.27	-26.28	No Data	No Data	No Data	No Data	Shutdown	0.61	23.70	0.10	Shutdown	No Data
01-Oct-08 14:30:00	4306.74	120.63	-5.44	120.49	-7.02	-96.03	-35.99	No Data	No Data	No Data	No Data	Shutdown	0.67	23.71	0.11	Shutdown	No Data
01-Oct-08 14:45:00	4327.55	119.61	-6.03	118.82	-7.53	-93.56	-36.03	No Data	No Data	No Data	No Data	Shutdown	0.73	23.53	0.11	Shutdown	No Data
01-Oct-08 15:00:00	4335.34	118.78	-6.61	118.52	-8.04	-92.99	-36.07	No Data	No Data	No Data	No Data	Shutdown	0.51	23.36	0.12	Shutdown	No Data
01-Oct-08 15:15:00	4329.42	117.70	-7.20	117.67	-8.55	-92.56	-34.87	No Data	No Data	No Data	No Data	Shutdown	0.28	23.18	0.13	Shutdown	No Data
01-Oct-08 15:30:00	4339.13	117.60	-7.67	117.14	-9.06	-94.76	-35.66	No Data	No Data	No Data	No Data	Shutdown	0.04	23.00	0.14	Shutdown	No Data
01-Oct-08 15:45:00	4327.41	117.35	-8.02	117.21	-9.57	-94.76	-35.35	No Data	No Data	No Data	No Data	Shutdown	-0.20	22.83	0.15	Shutdown	No Data
01-Oct-08 16:00:00	4325.94	117.59	-8.37	117.07	-10.06	-93.60	-35.04	No Data	No Data	No Data	No Data	Shutdown	-0.44	22.65	0.16	Shutdown	No Data
01-Oct-08 16:15:00	4303.16	118.72	-8.72	118.55	-10.55	-91.74	-34.73	No Data	No Data	No Data	No Data	Shutdown	-0.68	22.47	0.16	Shutdown	No Data
01-Oct-08 16:30:00	4294.49	118.33	-9.07	117.97	-11.04	-89.88	-34.60	No Data	No Data	No Data	No Data	Shutdown	-0.26	22.30	0.66	Shutdown	No Data
01-Oct-08 16:45:00	4247.52	116.74	-5.10	116.59	-6.99	-89.25	-32.97	No Data	No Data	No Data	No Data	Shutdown	0.78	22.12	-0.92	Shutdown	No Data
01-Oct-08 17:00:00	4191.90	112.91	-1.85	112.04	-3.54	-90.66	-35.02	No Data	No Data	No Data	No Data	Shutdown	0.07	21.94	-0.18	Shutdown	No Data

1b
 9/3/09 13:00
 9/3/09 17:00
 15m

4482_1556

BAD
 DATA

DATE	T-RTCALC-SYSLOAD_MW	T-OT:230_BK_70_MW	T-OT:230_BK_70_MVAR	T-OT:230_BK_71_MW	T-OT:230_BK_71_MVAR	T-SY 138/69-138_BK_50_MW1	T-SY 138/69-138_BK_50_MVAR1	T-SG:230_BK_70_MW	T-SG:230_BK_70_MVAR	T-SG:230_BK_72_MW	T-SG:230_BK_72_MVAR	T-OT 69-69_BK_30_MW	T-OT:69_BK_30_MVAR	T-OT:69_BK_31_MW	T-OT:69_BK_31_MVAR	T-OT 69-69_BK_32_MW	T-OT:69_BK_32_MVAR
03-Sep-09 13:00:00	3623.50	116.42	-4.29	116.76	-6.23	-107.28	-23.54	92.95	-17.22	0.00	0.00	Shutdown	-0.71	21.56	-0.61	Shutdown	No Data
03-Sep-09 13:15:00	3623.50	116.42	-4.29	116.76	-6.23	-107.28	-23.54	92.95	-17.22	0.00	0.00	Shutdown	-0.71	21.56	-0.61	Shutdown	No Data
03-Sep-09 13:30:00	3623.50	116.42	-4.29	116.76	-6.23	-107.28	-23.54	92.95	-17.22	0.00	0.00	Shutdown	-0.71	21.56	-0.61	Shutdown	No Data
03-Sep-09 13:45:00	3623.50	116.42	-4.29	116.76	-6.23	-107.28	-23.54	92.95	-17.22	0.00	0.00	Shutdown	-0.71	21.56	-0.61	Shutdown	No Data
03-Sep-09 14:00:00	3623.50	116.42	-4.29	116.76	-6.23	-107.28	-23.54	92.95	-17.22	0.00	0.00	Shutdown	-0.71	21.56	-0.61	Shutdown	No Data
03-Sep-09 14:15:00	3623.50	116.42	-4.29	116.76	-6.23	-107.28	-23.54	92.95	-17.22	0.00	0.00	Shutdown	-0.71	21.56	-0.61	Shutdown	No Data
03-Sep-09 14:30:00	3623.50	116.42	-4.29	116.76	-6.23	-107.28	-23.54	92.95	-17.22	0.00	0.00	Shutdown	-0.71	21.56	-0.61	Shutdown	No Data
03-Sep-09 14:45:00	3623.50	116.42	-4.29	116.76	-6.23	-107.28	-23.54	92.95	-17.22	0.00	0.00	Shutdown	-0.71	21.56	-0.61	Shutdown	No Data
03-Sep-09 15:00:00	3623.50	116.42	-4.29	116.76	-6.23	-107.28	-23.54	92.95	-17.22	0.00	0.00	Shutdown	-0.71	21.56	-0.61	Shutdown	No Data
03-Sep-09 15:15:00	3623.50	116.42	-4.29	116.76	-6.23	-107.28	-23.54	92.95	-17.22	0.00	0.00	Shutdown	-0.71	21.56	-0.61	Shutdown	No Data
03-Sep-09 15:30:00	3623.50	116.42	-4.29	116.76	-6.23	-107.28	-23.54	92.95	-17.22	0.00	0.00	Shutdown	-0.71	21.56	-0.61	Shutdown	No Data
03-Sep-09 15:45:00	3623.50	116.42	-4.29	116.76	-6.23	-107.28	-23.54	92.95	-17.22	0.00	0.00	Shutdown	-0.71	21.56	-0.61	Shutdown	No Data
03-Sep-09 16:00:00	3623.50	116.42	-4.29	116.76	-6.23	-107.28	-23.54	92.95	-17.22	0.00	0.00	Shutdown	-0.71	21.56	-0.61	Shutdown	No Data
03-Sep-09 16:15:00	3623.50	116.42	-4.29	116.76	-6.23	-107.28	-23.54	92.95	-17.22	0.00	0.00	Shutdown	-0.71	21.56	-0.61	Shutdown	No Data
03-Sep-09 16:30:00	3623.50	116.42	-4.29	116.76	-6.23	-107.28	-23.54	92.95	-17.22	0.00	0.00	Shutdown	-0.71	21.56	-0.61	Shutdown	No Data
03-Sep-09 16:45:00	3623.50	116.42	-4.29	116.76	-6.23	-107.28	-23.54	92.95	-17.22	0.00	0.00	Shutdown	-0.71	21.56	-0.61	Shutdown	No Data
03-Sep-09 17:00:00	3623.50	116.42	-4.29	116.76	-6.23	-107.28	-23.54	92.95	-17.22	0.00	0.00	Shutdown	-0.71	21.56	-0.61	Shutdown	No Data

1b
9/27/10 13:00
9/27/10 17:00
15m

4687_1532

DATE:	T-RTCALC-SYSLOAD_MW	T-OT:230_BK_70_MW	T-OT:230_BK_70_MVAR	T-OT:230_BK_71_MW	T-OT:230_BK_71_MVAR	T-SY 138/69:138_BK_50_MW1	T-SY 138/69:138_BK_50_MVAR1	T-SG:230_BK_70_MW	T-SG:230_BK_70_MVAR	T-SG:230_BK_72_MW	T-SG:230_BK_72_MVAR	T-OT 69:69_BK_30_MW	T-OT:69_BK_30_MVAR	T-OT:69_BK_31_MW	T-OT:69_BK_31_MVAR	T-OT 69:69_BK_32_MW	T-OT:69_BK_32_MVAR
27-Sep-10 13:00:00	4526.03	116.13	-2.74	116.59	-3.91	-78.87	-16.12	92.04	6.29	92.50	6.56	Shutdown	-1.11	21.12	-0.38	Shutdown	0.01
27-Sep-10 13:15:00	4546.69	116.32	-2.61	116.74	-3.85	-78.40	-16.24	92.18	6.48	92.66	6.82	Shutdown	-1.02	21.10	-0.37	Shutdown	0.01
27-Sep-10 13:30:00	4580.11	116.52	-2.48	116.89	-3.79	-78.75	-15.75	91.88	6.66	92.37	7.08	Shutdown	-0.93	21.09	-0.36	Shutdown	0.01
27-Sep-10 13:45:00	4591.91	115.25	-3.14	116.02	-3.78	-72.20	-20.42	90.74	6.74	90.77	7.60	Shutdown	-0.83	21.07	-0.34	Shutdown	0.01
27-Sep-10 14:00:00	4618.25	114.87	-2.93	114.93	-3.85	-69.78	-20.82	89.25	6.69	89.40	7.34	Shutdown	-0.74	21.06	-0.33	Shutdown	0.01
27-Sep-10 14:15:00	4600.19	114.49	-2.73	114.78	-3.91	-69.88	-19.72	89.07	6.63	89.45	7.09	Shutdown	-0.65	21.04	-0.32	Shutdown	0.01
27-Sep-10 14:30:00	4604.94	114.40	-2.53	115.18	-3.98	-70.92	-19.95	89.63	6.58	90.03	7.16	Shutdown	-0.56	21.03	-0.31	Shutdown	0.01
27-Sep-10 14:45:00	4627.90	114.86	-2.32	115.46	-3.79	-70.22	-20.19	91.20	6.52	91.34	7.59	Shutdown	-0.46	21.02	-0.30	Shutdown	0.01
27-Sep-10 15:00:00	4667.10	115.54	-5.76	115.93	-7.07	-71.60	-17.86	92.05	13.87	92.38	14.31	Shutdown	-0.51	21.00	-0.43	Shutdown	0.01
27-Sep-10 15:15:00	4669.23	115.83	-6.40	116.67	-7.93	-70.95	-18.04	92.77	13.27	92.65	13.70	Shutdown	-0.56	20.99	-0.47	Shutdown	0.01
27-Sep-10 15:30:00	4684.85	115.20	-6.60	115.90	-8.26	-72.16	-15.29	92.59	13.61	92.84	14.14	Shutdown	-0.61	20.97	-0.51	Shutdown	0.01
27-Sep-10 15:45:00	4678.57	113.94	-6.94	114.57	-8.64	-71.40	-19.02	91.90	13.53	92.44	13.90	Shutdown	-0.66	20.96	-0.54	Shutdown	0.01
27-Sep-10 16:00:00	4678.65	113.12	-7.43	114.21	-8.92	-70.87	-18.75	91.27	13.34	91.25	13.63	Shutdown	-0.71	20.95	-0.58	Shutdown	0.01
27-Sep-10 16:15:00	4669.21	112.85	-7.61	113.90	-8.63	-70.60	-18.49	90.68	13.29	91.34	13.46	Shutdown	-0.76	20.93	-0.62	Shutdown	0.01
27-Sep-10 16:30:00	4655.85	113.78	-7.35	113.90	-8.22	-70.21	-18.23	91.09	13.68	91.60	13.59	Shutdown	-0.80	20.92	-0.66	Shutdown	0.01
27-Sep-10 16:45:00	4643.17	113.66	-7.74	114.22	-8.77	-69.83	-17.97	91.09	13.77	91.15	13.71	Shutdown	-0.85	20.90	-0.70	Shutdown	0.01
27-Sep-10 17:00:00	4613.78	112.45	-8.13	112.77	-9.32	-69.34	-17.94	90.05	12.47	89.91	13.12	Shutdown	-0.90	20.89	-0.74	Shutdown	0.01

1b

9/7/11 13:00
9/7/11 17:00
15m

4371_1359

DATE	T-RTCALC:SYSLOAD MW	T-OT:230_BK_70_MW	T-OT:230_BK_70_MVAR	T-OT:230_BK_71_MW	T-OT:230_BK_71_MVAR	T-SY 138/69:138_BK_50_MW1	T-SY 138/69:138_BK_50_MVAR1	T-SG:230_BK_70_MW	T-SG:230_BK_70_MVAR	T-SG:230_BK_72_MW	T-SG:230_BK_72_MVAR	T-OT 69:69_BK_30_MW	T-OT:69_BK_30_MVAR	T-OT:69_BK_31_MW	T-OT:69_BK_31_MVAR	T-OT 69:69_BK_32_MW	T-OT:69_BK_32_MVAR	
07-Sep-11 13:00:00	4247.34	126.69	-2.63	127.32	-4.19	-121.19	-121.19	41.32	119.17	9.35	119.26	9.83	Shutdown	-2.23	19.96	-2.60	Shutdown	0.01
07-Sep-11 13:15:00	4289.94	127.76	-2.52	128.51	-3.91	-121.76	-121.76	40.97	120.24	9.79	120.56	10.29	Shutdown	-2.17	20.03	-2.58	Shutdown	0.01
07-Sep-11 13:30:00	4328.84	128.23	-2.42	128.97	-3.75	-121.76	-121.76	40.61	120.85	10.23	121.46	9.74	Shutdown	-2.11	20.10	-2.56	Shutdown	0.01
07-Sep-11 13:45:00	4355.78	128.62	-2.31	129.32	-3.65	-121.66	-121.66	40.14	121.41	9.53	121.75	9.91	Shutdown	-2.05	20.17	-2.54	Shutdown	0.01
07-Sep-11 14:00:00	4366.94	125.52	-1.21	125.85	-2.61	-110.65	-110.65	38.24	116.34	10.05	116.51	10.39	Shutdown	-1.99	20.24	-2.51	Shutdown	0.01
07-Sep-11 14:15:00	4346.66	124.18	-1.27	124.60	-2.60	-109.28	-109.28	36.51	114.65	11.41	114.61	11.64	Shutdown	-1.93	20.31	-2.49	Shutdown	0.01
07-Sep-11 14:30:00	4349.16	124.27	-1.27	125.02	-2.58	-109.25	-109.25	36.53	114.92	11.26	114.69	11.59	Shutdown	-1.87	20.38	-2.47	Shutdown	0.01
07-Sep-11 14:45:00	4350.27	124.24	-1.27	124.91	-2.57	-109.25	-109.25	36.56	114.91	11.11	114.74	11.58	Shutdown	-1.81	20.45	-2.45	Shutdown	0.01
07-Sep-11 15:00:00	4358.29	124.04	-1.27	124.32	-2.56	-108.72	-108.72	36.58	114.52	10.96	114.62	11.83	Shutdown	-1.75	20.52	-2.43	Shutdown	0.01
07-Sep-11 15:15:00	4355.27	123.45	-1.37	124.17	-2.65	-108.69	-108.69	38.79	114.39	11.23	114.84	10.27	Shutdown	-1.69	20.59	-2.41	Shutdown	0.01
07-Sep-11 15:30:00	4357.95	121.95	-1.86	122.29	-3.14	-100.49	-100.49	39.59	111.94	9.68	111.88	9.90	Shutdown	-1.63	20.67	-2.39	Shutdown	0.01
07-Sep-11 15:45:00	4355.95	121.80	-2.34	122.25	-3.62	-99.97	-99.97	40.22	111.62	9.18	112.07	9.54	Shutdown	-1.57	20.74	-2.37	Shutdown	0.01
07-Sep-11 16:00:00	4359.00	121.80	-2.83	122.20	-4.10	-100.07	-100.07	40.84	111.37	8.78	112.04	9.17	Shutdown	-1.51	20.81	-2.35	Shutdown	0.01
07-Sep-11 16:15:00	4348.94	121.65	-3.24	122.16	-4.39	-99.24	-99.24	41.46	111.35	8.58	111.81	8.88	Shutdown	-1.45	20.88	-2.33	Shutdown	0.01
07-Sep-11 16:30:00	4358.31	121.51	-3.49	122.04	-4.68	-99.57	-99.57	42.01	111.20	8.39	111.59	8.62	Shutdown	-1.39	20.95	-2.30	Shutdown	0.01
07-Sep-11 16:45:00	4343.43	121.35	-3.75	121.83	-4.97	-98.51	-98.51	42.53	111.04	8.20	111.37	8.37	Shutdown	-1.33	21.02	-2.28	Shutdown	0.01
07-Sep-11 17:00:00	4331.24	120.19	-4.00	121.18	-5.26	-98.46	-98.46	43.08	110.86	7.84	111.07	7.99	Shutdown	-1.32	21.09	-2.26	Shutdown	0.01

		Date/Time	T:RTCALC:SYSLOAD MW	T:ECC RTU:SDGE SYS LOAD 5 MIN MOVE AVG MW	T:ECC RTU:SDGE TOTAL SYSTEM LOAD	T:ECC RTU:SDGE AVG SYSTEM LOAD	T:ECC RTU:TOTSYSLOAD MW
9/3/07 13:00	I but half the value	03-Sep-07 13:00:00	No Data	No Data	No Data	No Data	2770.344727
9/3/07 17:00		03-Sep-07 13:15:00	No Data	No Data	No Data	No Data	2772.541016
15m		03-Sep-07 13:30:00	No Data	No Data	No Data	No Data	2810.79834
		03-Sep-07 13:45:00	No Data	No Data	No Data	No Data	2823.19873
		03-Sep-07 14:00:00	No Data	4636	No Data	No Data	2864.771973
10/1/08 13:00	E and F & H	03-Sep-07 14:15:00	No Data	4636	No Data	No Data	2895.059814
10/1/08 17:00		03-Sep-07 14:30:00	No Data	4636	No Data	No Data	2874.877441
15m		03-Sep-07 14:45:00	No Data	4636	No Data	No Data	2828.64209
		03-Sep-07 15:00:00	No Data	4636	No Data	No Data	2816.552246
		03-Sep-07 15:15:00	No Data	4636	No Data	No Data	2794.223633
9/3/09 13:00	all bad	03-Sep-07 15:30:00	No Data	4636	No Data	No Data	2802.601318
9/3/09 17:00		03-Sep-07 15:45:00	No Data	4636	No Data	No Data	2795.201172
15m		03-Sep-07 16:00:00	No Data	4636	No Data	No Data	2793.29248
		03-Sep-07 16:15:00	No Data	4636	No Data	No Data	2787.048828
		03-Sep-07 16:30:00	No Data	4636	No Data	No Data	2783.356201
9/27/10 13:00		03-Sep-07 16:45:00	No Data	4636	No Data	No Data	2755.344238
9/27/10 17:00	E,F,H	03-Sep-07 17:00:00	No Data	4636	No Data	No Data	2771.643311
15m							
9/7/11 13:00							
9/7/11 17:00	E,F,H						
15m							

Data Request 16_1c

OLD TOWN TRANSFORMER OUTAGES:					
TYPE	ID	Terminal 1	kV	Outage Date/Time	Restoration Date/Time
XFMR	230/69kV	OLD TOWN	230	4/1/11 11:57	4/1/11 13:37
XFMR	230/69kV	OLD TOWN	69	5/1/11 11:56	5/1/11 23:59
XFMR	230/69kV	OLD TOWN	230	6/20/11 8:31	6/20/11 12:18

Duration: H/M	Field Notes
1:40	Undetermined after inspection.
12:03	Undetermined / under investigation.
3:47	Defective Sudden Pressure Relay / Follow up required.

3a
8/31/02 0:00
9/7/02 0:00
1h

3571 020903

DATE:	T:RTCALC:SYSLOAD MW D 5 MIN MOVE AVG MW ECC RTU:SDGE TOTAL SYSTEM LOAD	T:ECC RTU:SDGE AVG SYSTEM LOAD	T:ECC RTU:TOTSYSLOAD MW
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31-Aug-02 01:00:00	No Data	No Data	1196.09
31-Aug-02 02:00:00	No Data	No Data	1158.81
31-Aug-02 03:00:00	No Data	No Data	1166.27
31-Aug-02 04:00:00	No Data	No Data	1155.30
31-Aug-02 05:00:00	No Data	No Data	1164.83
31-Aug-02 06:00:00	No Data	No Data	1320.04
31-Aug-02 07:00:00	No Data	No Data	1340.80
31-Aug-02 08:00:00	No Data	No Data	1457.23
31-Aug-02 09:00:00	No Data	No Data	1689.62
31-Aug-02 10:00:00	No Data	No Data	1890.40
31-Aug-02 11:00:00	No Data	No Data	1983.16
31-Aug-02 12:00:00	No Data	No Data	2126.77
31-Aug-02 13:00:00	No Data	No Data	2244.19
31-Aug-02 14:00:00	No Data	No Data	2245.14
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31-Aug-02 17:00:00	No Data	No Data	2204.13
31-Aug-02 18:00:00	No Data	No Data	2064.23
31-Aug-02 19:00:00	No Data	No Data	2002.73
31-Aug-02 20:00:00	No Data	No Data	2121.91
31-Aug-02 21:00:00	No Data	No Data	1923.62
31-Aug-02 22:00:00	No Data	No Data	1642.98
31-Aug-02 23:00:00	No Data	No Data	1476.57
01-Sep-02 00:00:00	No Data	No Data	1330.52
01-Sep-02 01:00:00	No Data	No Data	1270.39
01-Sep-02 02:00:00	No Data	No Data	1202.27
01-Sep-02 03:00:00	No Data	No Data	1149.98
01-Sep-02 04:00:00	No Data	No Data	1154.28
01-Sep-02 05:00:00	No Data	No Data	1205.35
01-Sep-02 06:00:00	No Data	No Data	1245.39
01-Sep-02 07:00:00	No Data	No Data	1321.62
01-Sep-02 08:00:00	No Data	No Data	1445.48
01-Sep-02 09:00:00	No Data	No Data	1659.03
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01-Sep-02 11:00:00	No Data	No Data	2090.85
01-Sep-02 12:00:00	No Data	No Data	2269.37
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01-Sep-02 14:00:00	No Data	No Data	2291.11
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01-Sep-02 17:00:00	No Data	No Data	No Data	No Data	2415.60
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01-Sep-02 19:00:00	No Data	No Data	No Data	No Data	2240.58
01-Sep-02 20:00:00	No Data	No Data	No Data	No Data	2204.07
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02-Sep-02 01:00:00	No Data	No Data	No Data	No Data	1322.30
02-Sep-02 02:00:00	No Data	No Data	No Data	No Data	1253.51
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02-Sep-02 04:00:00	No Data	No Data	No Data	No Data	1212.30
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02-Sep-02 08:00:00	No Data	No Data	No Data	No Data	1303.99
02-Sep-02 09:00:00	No Data	No Data	No Data	No Data	1330.73
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02-Sep-02 11:00:00	No Data	No Data	No Data	No Data	1605.49
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03-Sep-02 03:00:00	No Data	No Data	No Data	No Data	1119.40
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03-Sep-02 10:00:00	No Data	No Data	No Data	No Data	1157.12
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03-Sep-02 13:00:00	No Data	No Data	No Data	No Data	1510.26
03-Sep-02 14:00:00	No Data	No Data	No Data	No Data	1654.29
03-Sep-02 15:00:00	No Data	No Data	No Data	No Data	1708.88

3571.00

03-Sep-02 16:00:00	No Data	No Data	No Data	No Data	1749.72
03-Sep-02 17:00:00	No Data	No Data	No Data	No Data	1574.86
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03-Sep-02 21:00:00	No Data	No Data	No Data	No Data	1165.44
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03-Sep-02 23:00:00	No Data	No Data	No Data	No Data	617.25
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04-Sep-02 03:00:00	No Data	No Data	No Data	No Data	407.81
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04-Sep-02 07:00:00	No Data	No Data	No Data	No Data	977.22
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04-Sep-02 09:00:00	No Data	No Data	No Data	No Data	1238.25
04-Sep-02 10:00:00	No Data	No Data	No Data	No Data	1346.47
04-Sep-02 11:00:00	No Data	No Data	No Data	No Data	1444.02
04-Sep-02 12:00:00	No Data	No Data	No Data	No Data	1547.09
04-Sep-02 13:00:00	No Data	No Data	No Data	No Data	1617.53
04-Sep-02 14:00:00	No Data	No Data	No Data	No Data	1656.72
04-Sep-02 15:00:00	No Data	No Data	No Data	No Data	1773.36
04-Sep-02 16:00:00	No Data	No Data	No Data	No Data	1745.97
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04-Sep-02 18:00:00	No Data	No Data	No Data	No Data	1528.51
04-Sep-02 19:00:00	No Data	No Data	No Data	No Data	1472.66
04-Sep-02 20:00:00	No Data	No Data	No Data	No Data	1579.14
04-Sep-02 21:00:00	No Data	No Data	No Data	No Data	1431.45
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04-Sep-02 23:00:00	No Data	No Data	No Data	No Data	703.78
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05-Sep-02 02:00:00	No Data	No Data	No Data	No Data	399.01
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05-Sep-02 05:00:00	No Data	No Data	No Data	No Data	466.23
05-Sep-02 06:00:00	No Data	No Data	No Data	No Data	728.39
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05-Sep-02 15:00:00	No Data	No Data	No Data	No Data	1038.50
05-Sep-02 16:00:00	No Data	No Data	No Data	No Data	1107.95
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05-Sep-02 22:00:00	No Data	No Data	No Data	No Data	858.83
05-Sep-02 23:00:00	No Data	No Data	No Data	No Data	605.37
06-Sep-02 00:00:00	No Data	No Data	No Data	No Data	468.04
06-Sep-02 01:00:00	No Data	No Data	No Data	No Data	380.46
06-Sep-02 02:00:00	No Data	No Data	No Data	No Data	358.61
06-Sep-02 03:00:00	No Data	No Data	No Data	No Data	336.15
06-Sep-02 04:00:00	No Data	No Data	No Data	No Data	341.57
06-Sep-02 05:00:00	No Data	No Data	No Data	No Data	420.60
06-Sep-02 06:00:00	No Data	No Data	No Data	No Data	672.69
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06-Sep-02 08:00:00	No Data	No Data	No Data	No Data	1037.15
06-Sep-02 09:00:00	No Data	No Data	No Data	No Data	1263.67
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06-Sep-02 16:00:00	No Data	No Data	No Data	No Data	1132.12
06-Sep-02 17:00:00	No Data	No Data	No Data	No Data	1116.01
06-Sep-02 18:00:00	No Data	No Data	No Data	No Data	1049.21
06-Sep-02 19:00:00	No Data	No Data	No Data	No Data	1115.47
06-Sep-02 20:00:00	No Data	No Data	No Data	No Data	1197.52
06-Sep-02 21:00:00	No Data	No Data	No Data	No Data	1022.60
06-Sep-02 22:00:00	No Data	No Data	No Data	No Data	816.43
06-Sep-02 23:00:00	No Data	No Data	No Data	No Data	577.61
07-Sep-02 00:00:00	No Data	No Data	No Data	No Data	468.82

3a
9/2/03 0:00
9/9/03 0:00
1h

3937 030905

DATE:	T:RTCALC:SYSLOAD MW	T:ECC RTU:SDGE SYS LOAD 5 MIN MOVE AVG MW	T:ECC RTU:SDGE TOTAL SYSTEM LOAD	T:ECC RTU:SDGE AVG SYSTEM LOAD	T:ECC RTU:TOTSYSLOAD MW
02-Sep-03 00:00:00	No Data	No Data	No Data	No Data	1796.86
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02-Sep-03 02:00:00	No Data	No Data	No Data	No Data	1597.43
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02-Sep-03 07:00:00	No Data	No Data	No Data	No Data	2106.17
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02-Sep-03 17:00:00	No Data	No Data	No Data	No Data	2623.43
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02-Sep-03 23:00:00	No Data	No Data	No Data	No Data	2173.60
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03-Sep-03 02:00:00	No Data	No Data	No Data	No Data	1679.50
03-Sep-03 03:00:00	No Data	No Data	No Data	No Data	1636.85
03-Sep-03 04:00:00	No Data	No Data	No Data	No Data	1631.75
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03-Sep-03 09:00:00	No Data	No Data	No Data	No Data	2566.87
03-Sep-03 10:00:00	No Data	No Data	No Data	No Data	2723.56
03-Sep-03 11:00:00	No Data	No Data	No Data	No Data	2834.93
03-Sep-03 12:00:00	No Data	No Data	No Data	No Data	2769.94
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03-Sep-03 19:00:00	No Data	No Data	No Data	No Data	2789.73
03-Sep-03 20:00:00	No Data	No Data	No Data	No Data	2977.20
03-Sep-03 21:00:00	No Data	No Data	No Data	No Data	2879.04
03-Sep-03 22:00:00	No Data	No Data	No Data	No Data	2559.42

3937.00

03-Sep-03 23:00:00	No Data	No Data	No Data	No Data	2242.46
04-Sep-03 00:00:00	No Data	No Data	No Data	No Data	1953.60
04-Sep-03 01:00:00	No Data	No Data	No Data	No Data	1788.72
04-Sep-03 02:00:00	No Data	No Data	No Data	No Data	1707.92
04-Sep-03 03:00:00	No Data	No Data	No Data	No Data	1660.87
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9/7/04 0:00

9/14/04 0:00

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4065 040910

Date:	T:RTCALC:SYSLOAD MW	T:ECC RTU:SDGE SYS LOAD 5 MIN MOVE AVG MW	T:ECC RTU:SDGE TOTAL SYSTEM LOAD	T:ECC RTU:SDGE AVG SYSTEM LOAD	T:ECC RTU:TOTSYSLOAD MW
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7/19/05 0:00
7/26/05 0:00
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4058 050722

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7/19/06 0:00
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4502 060722
1427

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8/31/07 0:00
9/7/07 0:00
1h

4636 070903
1400

DATE:	T:RTCALC:SYSLOAD MW	T:ECC RTU:SDGE SYS LOAD 5 MIN MOVE AVG MW	T:ECC RTU:SDGE TOTAL SYSTEM LOAD	T:ECC RTU:SDGE AVG SYSTEM LOAD	T:ECC RTU:TOTSYSLOAD MW
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4636.00

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9/28/08 0:00
10/5/08 0:00
1h

4332 081001
1452

DATE:	T:RTCALC:SYSLOAD MW	T:ECC RTU:SDGE SYS LOAD 5 MIN MOVE AVG MW	T:ECC RTU:SDGE TOTAL SYSTEM LOAD	T:ECC RTU:SDGE AVG SYSTEM LOAD	T:ECC RTU:TOTSYSLOAD MW
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28-Sep-08 02:00:00	1927.13	1918.53	No Data	1918.53	1347.01
28-Sep-08 03:00:00	1847.57	1850.77	No Data	1850.77	1260.57
28-Sep-08 04:00:00	1829.15	1825.13	No Data	1825.13	1243.33
28-Sep-08 05:00:00	1832.27	1833.91	No Data	1833.91	1253.07
28-Sep-08 06:00:00	1898.19	1888.13	No Data	1888.13	1300.45
28-Sep-08 07:00:00	1927.43	1927.00	No Data	1927.00	1103.42
28-Sep-08 08:00:00	2062.31	2053.41	No Data	2053.41	1224.82
28-Sep-08 09:00:00	2260.27	2244.69	No Data	2244.69	1425.18
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28-Sep-08 14:00:00	2895.63	2892.88	No Data	2892.88	1950.53
28-Sep-08 15:00:00	2957.87	2950.25	No Data	2950.25	1967.31
28-Sep-08 16:00:00	2992.46	2971.16	No Data	2971.16	1988.38
28-Sep-08 17:00:00	2990.44	2983.33	No Data	2983.33	2039.50
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28-Sep-08 21:00:00	2899.11	2898.57	No Data	2898.57	1925.25
28-Sep-08 22:00:00	2629.93	2633.69	No Data	2633.69	1738.04
28-Sep-08 23:00:00	2319.37	2325.99	No Data	2325.99	1533.27
29-Sep-08 00:00:00	2068.71	2088.19	No Data	2088.19	1265.49
29-Sep-08 01:00:00	1957.56	1946.89	No Data	1946.89	1111.39
29-Sep-08 02:00:00	1882.35	1879.15	No Data	1879.15	1071.26
29-Sep-08 03:00:00	1832.36	1834.02	No Data	1834.02	981.71
29-Sep-08 04:00:00	1836.98	1832.04	No Data	1832.04	994.89
29-Sep-08 05:00:00	1915.48	1913.35	No Data	1913.35	1099.92
29-Sep-08 06:00:00	2163.74	2147.37	No Data	2147.37	1326.23
29-Sep-08 07:00:00	2414.81	2402.99	No Data	2402.99	1569.63
29-Sep-08 08:00:00	2589.22	2574.42	No Data	2574.42	1759.96
29-Sep-08 09:00:00	2783.55	2770.10	No Data	2770.10	1938.09
29-Sep-08 10:00:00	2946.97	2939.13	No Data	2939.13	2067.31
29-Sep-08 11:00:00	3129.26	3108.08	No Data	3108.08	2175.69
29-Sep-08 12:00:00	3233.23	3228.86	No Data	3228.86	2277.23
29-Sep-08 13:00:00	3332.38	3324.47	No Data	3324.47	2341.61
29-Sep-08 14:00:00	3421.43	3407.56	No Data	3407.56	2409.47
29-Sep-08 15:00:00	3475.64	3470.86	No Data	3470.86	2454.05
29-Sep-08 16:00:00	3479.72	3455.77	No Data	3455.77	2406.21
29-Sep-08 17:00:00	3431.22	3413.95	No Data	3413.95	2390.26
29-Sep-08 18:00:00	3290.84	3288.52	No Data	3288.52	2299.78
29-Sep-08 19:00:00	3423.43	3393.59	No Data	3393.59	2311.66
29-Sep-08 20:00:00	3369.28	3350.13	No Data	3350.13	2189.31
29-Sep-08 21:00:00	3126.83	3135.87	No Data	3135.87	2087.68
29-Sep-08 22:00:00	2815.48	2808.09	No Data	2808.09	1899.94

29-Sep-08 23:00:00	2454.74	2461.78	No Data	2461.78	1602.83
30-Sep-08 00:00:00	2179.80	2181.43	No Data	2181.43	1318.16
30-Sep-08 01:00:00	2032.97	2012.09	No Data	2012.09	1199.88
30-Sep-08 02:00:00	1929.42	1912.02	No Data	1912.02	1090.67
30-Sep-08 03:00:00	1878.33	1862.97	No Data	1862.97	1042.97
30-Sep-08 04:00:00	1868.55	1859.39	No Data	1859.39	1139.70
30-Sep-08 05:00:00	1957.87	1939.83	No Data	1939.83	1114.67
30-Sep-08 06:00:00	2207.34	2171.44	No Data	2171.44	1368.32
30-Sep-08 07:00:00	2452.75	2429.68	No Data	2429.68	1620.32
30-Sep-08 08:00:00	2645.97	2624.16	No Data	2624.16	1830.93
30-Sep-08 09:00:00	2936.89	2919.01	No Data	2919.01	2118.22
30-Sep-08 10:00:00	3198.16	3193.07	No Data	3193.07	2392.88
30-Sep-08 11:00:00	3450.62	3426.82	No Data	3426.82	2475.22
30-Sep-08 12:00:00	3651.05	3638.23	No Data	3638.23	2598.59
30-Sep-08 13:00:00	3806.38	3776.26	No Data	3776.26	2460.19
30-Sep-08 14:00:00	3958.13	3925.85	No Data	3925.85	2559.65
30-Sep-08 15:00:00	4043.31	4021.64	No Data	4021.64	2615.93
30-Sep-08 16:00:00	4096.47	4073.20	No Data	4073.20	2703.37
30-Sep-08 17:00:00	4014.24	3994.54	No Data	3994.54	2568.00
30-Sep-08 18:00:00	3824.16	3821.20	No Data	3821.20	2589.24
30-Sep-08 19:00:00	3921.07	3882.09	No Data	3882.09	2673.25
30-Sep-08 20:00:00	3807.98	3790.81	No Data	3790.81	2502.22
30-Sep-08 21:00:00	3548.84	3536.70	No Data	3536.70	2415.43
30-Sep-08 22:00:00	3163.51	3154.21	No Data	3154.21	2142.62
30-Sep-08 23:00:00	2721.97	2750.37	No Data	2750.37	1901.17
01-Oct-08 00:00:00	2435.77	2429.31	No Data	2429.31	1666.25
01-Oct-08 01:00:00	2237.20	2228.30	No Data	2228.30	1450.48
01-Oct-08 02:00:00	2129.74	2108.17	No Data	2108.17	1513.74
01-Oct-08 03:00:00	2040.72	2027.99	No Data	2027.99	1417.94
01-Oct-08 04:00:00	2024.95	2009.86	No Data	2009.86	1386.82
01-Oct-08 05:00:00	2103.21	2080.67	No Data	2080.67	1504.53
01-Oct-08 06:00:00	2345.33	2312.26	No Data	2312.26	1606.90
01-Oct-08 07:00:00	2601.34	2585.04	No Data	2585.04	1864.70
01-Oct-08 08:00:00	2863.03	2836.30	No Data	2836.30	2078.14
01-Oct-08 09:00:00	3196.18	3168.54	No Data	3168.54	2339.10
01-Oct-08 10:00:00	3557.61	3517.56	No Data	3517.56	2578.81
01-Oct-08 11:00:00	3840.62	3819.72	No Data	3819.72	2709.54
01-Oct-08 12:00:00	4056.45	4024.79	No Data	4024.79	2757.93
01-Oct-08 13:00:00	4218.69	4196.71	No Data	4196.71	2896.00
01-Oct-08 14:00:00	4214.77	4186.95	No Data	4186.95	2843.24
01-Oct-08 15:00:00	4335.34	4320.65	No Data	4320.65	2962.25
01-Oct-08 16:00:00	4325.94	4316.27	No Data	4316.27	2973.05
01-Oct-08 17:00:00	4191.90	4198.38	No Data	4198.38	2840.95
01-Oct-08 18:00:00	4022.66	4037.68	No Data	4037.68	2631.08
01-Oct-08 19:00:00	4046.28	4045.14	No Data	4045.14	2618.84
01-Oct-08 20:00:00	3908.79	3913.00	No Data	3913.00	2453.23
01-Oct-08 21:00:00	3672.48	3670.67	No Data	3670.67	2410.71
01-Oct-08 22:00:00	3265.04	3273.50	No Data	3273.50	2216.22
01-Oct-08 23:00:00	2825.88	2827.83	No Data	2827.83	2025.27
02-Oct-08 00:00:00	2472.67	2478.46	No Data	2478.46	1635.80

4332.00

02-Oct-08 01:00:00	2269.92	2267.93	No Data	2267.93	1429.66
02-Oct-08 02:00:00	2147.69	2133.47	No Data	2133.47	1319.01
02-Oct-08 03:00:00	2066.74	2061.82	No Data	2061.82	1456.91
02-Oct-08 04:00:00	2053.52	2035.61	No Data	2035.61	1405.03
02-Oct-08 05:00:00	2119.53	2083.68	No Data	2083.68	1221.16
02-Oct-08 06:00:00	2356.41	2330.76	No Data	2330.76	1544.97
02-Oct-08 07:00:00	2611.62	2594.78	No Data	2594.78	1769.76
02-Oct-08 08:00:00	2845.36	2815.54	No Data	2815.54	1966.80
02-Oct-08 09:00:00	3130.77	3089.99	No Data	3089.99	2078.58
02-Oct-08 10:00:00	3388.22	3353.25	No Data	3353.25	2138.61
02-Oct-08 11:00:00	3598.01	3555.35	No Data	3555.35	2293.41
02-Oct-08 12:00:00	3716.49	3695.02	No Data	3695.02	2435.18
02-Oct-08 13:00:00	3852.79	3812.81	No Data	3812.81	2533.19
02-Oct-08 14:00:00	3910.23	3880.41	No Data	3880.41	2616.32
02-Oct-08 15:00:00	3905.21	3873.72	No Data	3873.72	2595.03
02-Oct-08 16:00:00	3817.50	3789.99	No Data	3789.99	2507.64
02-Oct-08 17:00:00	3686.78	3657.53	No Data	3657.53	2368.00
02-Oct-08 18:00:00	3497.81	3457.99	No Data	3457.99	2178.95
02-Oct-08 19:00:00	3575.06	3531.20	No Data	3531.20	2231.33
02-Oct-08 20:00:00	3518.48	3474.44	No Data	3474.44	2159.32
02-Oct-08 21:00:00	3297.46	3282.45	No Data	3282.45	2110.64
02-Oct-08 22:00:00	2946.84	2954.18	No Data	2954.18	2074.36
02-Oct-08 23:00:00	2558.63	2555.40	No Data	2555.40	1712.20
03-Oct-08 00:00:00	2272.84	2278.84	No Data	2278.84	1382.56
03-Oct-08 01:00:00	2124.22	2108.83	No Data	2108.83	1306.11
03-Oct-08 02:00:00	2024.79	2011.10	No Data	2011.10	1279.78
03-Oct-08 03:00:00	1950.84	1929.92	No Data	1929.92	1024.43
03-Oct-08 04:00:00	1950.69	1931.47	No Data	1931.47	1099.02
03-Oct-08 05:00:00	2040.91	2010.04	No Data	2010.04	1133.36
03-Oct-08 06:00:00	2275.72	2246.61	No Data	2246.61	1383.45
03-Oct-08 07:00:00	2542.94	2527.32	No Data	2527.32	1684.65
03-Oct-08 08:00:00	2698.23	2669.94	No Data	2669.94	1790.68
03-Oct-08 09:00:00	2883.33	2865.93	No Data	2865.93	1988.41
03-Oct-08 10:00:00	3044.04	3045.33	No Data	3045.33	2171.48
03-Oct-08 11:00:00	3210.99	3201.01	No Data	3201.01	2304.85
03-Oct-08 12:00:00	3265.68	3268.62	No Data	3268.62	2373.03
03-Oct-08 13:00:00	3276.07	3276.47	No Data	3276.47	2381.74
03-Oct-08 14:00:00	3267.38	3264.77	No Data	3264.77	2367.25
03-Oct-08 15:00:00	3191.56	3192.83	No Data	3192.83	2294.27
03-Oct-08 16:00:00	3135.97	3135.63	No Data	3135.63	2236.11
03-Oct-08 17:00:00	3002.43	3001.33	No Data	3001.33	2094.57
03-Oct-08 18:00:00	2911.32	2891.91	No Data	2891.91	2005.25
03-Oct-08 19:00:00	3062.35	3057.85	No Data	3057.85	2066.76
03-Oct-08 20:00:00	3032.76	3025.87	No Data	3025.87	2070.24
03-Oct-08 21:00:00	2891.47	2890.64	No Data	2890.64	1947.13
03-Oct-08 22:00:00	2684.89	2668.61	No Data	2668.61	1744.53
03-Oct-08 23:00:00	2415.48	2408.51	No Data	2408.51	1517.98
04-Oct-08 00:00:00	2169.22	2159.43	No Data	2159.43	1482.05
04-Oct-08 01:00:00	2007.34	2008.07	No Data	2008.07	1373.34
04-Oct-08 02:00:00	1915.42	1910.96	No Data	1910.96	1302.17

04-Oct-08 03:00:00	1866.98	1857.03	No Data	1857.03	1249.23
04-Oct-08 04:00:00	1853.90	1841.56	No Data	1841.56	1239.83
04-Oct-08 05:00:00	1871.03	1860.86	No Data	1860.86	1259.17
04-Oct-08 06:00:00	1957.61	1949.56	No Data	1949.56	1367.63
04-Oct-08 07:00:00	2043.55	2036.56	No Data	2036.56	1432.30
04-Oct-08 08:00:00	2187.60	2177.97	No Data	2177.97	1579.42
04-Oct-08 09:00:00	2383.12	2380.72	No Data	2380.72	1750.59
04-Oct-08 10:00:00	2526.37	2523.42	No Data	2523.42	1780.90
04-Oct-08 11:00:00	2608.57	2607.91	No Data	2607.91	1854.46
04-Oct-08 12:00:00	2649.10	2646.95	No Data	2646.95	1972.94
04-Oct-08 13:00:00	2631.33	2633.86	No Data	2633.86	1956.70
04-Oct-08 14:00:00	2580.42	2586.43	No Data	2586.43	1909.37
04-Oct-08 15:00:00	2544.69	2555.27	No Data	2555.27	1932.50
04-Oct-08 16:00:00	2534.11	2531.40	No Data	2531.40	1941.47
04-Oct-08 17:00:00	2534.55	2529.41	No Data	2529.41	1900.56
04-Oct-08 18:00:00	2570.70	2573.69	No Data	2573.69	1957.91
04-Oct-08 19:00:00	2845.32	2853.86	No Data	2853.86	2202.78
04-Oct-08 20:00:00	2809.08	2807.70	No Data	2807.70	2098.02
04-Oct-08 21:00:00	2671.96	2683.48	No Data	2683.48	1973.45
04-Oct-08 22:00:00	2497.36	2514.97	No Data	2514.97	1879.05
04-Oct-08 23:00:00	2274.35	2291.77	No Data	2291.77	1672.59
05-Oct-08 00:00:00	2079.68	2075.68	No Data	2075.68	1449.23

3a
8/31/09 0:00
9/7/09 0:00
1h

4482 090903
1556

DATE:	T:RTCALC:SYSLOAD MW	T:ECC RTU:SDGE SYS LOAD 5 MIN MOVE AVG MW	T:ECC RTU:SDGE TOTAL SYSTEM LOAD	T:ECC RTU:SDGE AVG SYSTEM LOAD	T:ECC RTU:TOTSYSLOAD MW
31-Aug-09 00:00:00	2489.91	2505.73	No Data	2505.73	1753.70
31-Aug-09 01:00:00	2282.73	2297.15	No Data	2297.15	1540.04
31-Aug-09 02:00:00	2177.43	2175.57	No Data	2175.57	1420.41
31-Aug-09 03:00:00	2091.08	2097.76	No Data	2097.76	1337.62
31-Aug-09 04:00:00	2084.02	2081.80	No Data	2081.80	1376.35
31-Aug-09 05:00:00	2150.09	2143.44	No Data	2143.44	1388.95
31-Aug-09 06:00:00	2362.79	2348.15	No Data	2348.15	1613.65
31-Aug-09 07:00:00	2575.14	2557.41	No Data	2557.41	1829.28
31-Aug-09 08:00:00	2854.03	2836.42	No Data	2836.42	2078.32
31-Aug-09 09:00:00	3099.08	3094.13	No Data	3094.13	2334.01
31-Aug-09 10:00:00	3341.21	3321.99	No Data	3321.99	2522.01
31-Aug-09 11:00:00	3528.35	3520.63	No Data	3520.63	2508.14
31-Aug-09 12:00:00	3698.43	3688.97	No Data	3688.97	2641.28
31-Aug-09 13:00:00	3878.46	3868.94	No Data	3868.94	2726.58
31-Aug-09 14:00:00	4002.11	3998.89	No Data	3998.89	2505.20
31-Aug-09 15:00:00	4067.00	4064.16	No Data	4064.16	2555.65
31-Aug-09 16:00:00	4115.29	4117.02	No Data	4117.02	2459.08
31-Aug-09 17:00:00	4050.31	4062.41	No Data	4062.41	2443.00
31-Aug-09 18:00:00	3865.85	3884.44	No Data	3884.44	2407.92
31-Aug-09 19:00:00	3690.52	3701.05	No Data	3701.05	2654.04
31-Aug-09 20:00:00	3739.75	3757.79	No Data	3757.79	2802.64
31-Aug-09 21:00:00	3527.38	3538.19	No Data	3538.19	2630.51
31-Aug-09 22:00:00	3180.61	3196.52	No Data	3196.52	2380.58
31-Aug-09 23:00:00	2794.30	2811.77	No Data	2811.77	2012.75
01-Sep-09 00:00:00	2485.57	2494.14	No Data	2494.14	1751.38
01-Sep-09 01:00:00	2290.66	2299.71	No Data	2299.71	1546.11
01-Sep-09 02:00:00	2166.77	2173.93	No Data	2173.93	1414.47
01-Sep-09 03:00:00	2110.66	2108.83	No Data	2108.83	1360.72
01-Sep-09 04:00:00	2092.26	2089.80	No Data	2089.80	1331.99
01-Sep-09 05:00:00	2164.55	2150.62	No Data	2150.62	1397.79
01-Sep-09 06:00:00	2375.84	2360.13	No Data	2360.13	1620.79
01-Sep-09 07:00:00	2605.24	2598.71	No Data	2598.71	1824.32
01-Sep-09 08:00:00	2882.44	2867.52	No Data	2867.52	2122.65
01-Sep-09 09:00:00	3167.56	3157.76	No Data	3157.76	2397.48
01-Sep-09 10:00:00	3391.25	3376.26	No Data	3376.26	2637.21
01-Sep-09 11:00:00	3570.74	3561.24	No Data	3561.24	2692.83
01-Sep-09 12:00:00	3738.51	3735.91	No Data	3735.91	2880.20
01-Sep-09 13:00:00	3850.92	3845.35	No Data	3845.35	2889.77
01-Sep-09 14:00:00	3976.93	3977.33	No Data	3977.33	2810.34
01-Sep-09 15:00:00	4080.67	4073.70	No Data	4073.70	2757.49
01-Sep-09 16:00:00	4145.09	4146.35	No Data	4146.35	2788.17
01-Sep-09 17:00:00	4112.10	4126.26	No Data	4126.26	2704.05
01-Sep-09 18:00:00	3963.77	3983.71	No Data	3983.71	2682.67
01-Sep-09 19:00:00	3766.95	3772.30	No Data	3772.30	2735.33
01-Sep-09 20:00:00	3879.09	3879.92	No Data	3879.92	2885.38
01-Sep-09 21:00:00	3673.20	3688.44	No Data	3688.44	2713.83
01-Sep-09 22:00:00	3302.86	3333.67	No Data	3333.67	2384.12

01-Sep-09 23:00:00	2907.02	2921.41	No Data	2921.41	2128.49
02-Sep-09 00:00:00	2567.78	2581.45	No Data	2581.45	1776.02
02-Sep-09 01:00:00	2361.11	2363.05	No Data	2363.05	1563.17
02-Sep-09 02:00:00	2227.06	2234.20	No Data	2234.20	1474.70
02-Sep-09 03:00:00	2148.79	2155.23	No Data	2155.23	1398.31
02-Sep-09 04:00:00	2135.50	2138.38	No Data	2138.38	1410.32
02-Sep-09 05:00:00	2208.21	2196.99	No Data	2196.99	1442.70
02-Sep-09 06:00:00	2427.21	2409.90	No Data	2409.90	1679.23
02-Sep-09 07:00:00	2669.16	2646.18	No Data	2646.18	1909.78
02-Sep-09 08:00:00	2944.94	2931.88	No Data	2931.88	2197.82
02-Sep-09 09:00:00	3270.93	3256.94	No Data	3256.94	2474.32
02-Sep-09 10:00:00	3577.93	3564.43	No Data	3564.43	2747.98
02-Sep-09 11:00:00	3623.50	3596.73	No Data	3596.73	2807.95
02-Sep-09 12:00:00	3623.50	3596.73	No Data	3596.73	2807.95
02-Sep-09 13:00:00	3623.50	3596.73	No Data	3596.73	2807.95
02-Sep-09 14:00:00	3623.50	3596.73	No Data	3596.73	2807.95
02-Sep-09 15:00:00	3623.50	3596.73	No Data	3596.73	2807.95
02-Sep-09 16:00:00	3623.50	3596.73	No Data	3596.73	2807.95
02-Sep-09 17:00:00	3623.50	3596.73	No Data	3596.73	2807.95
02-Sep-09 18:00:00	3623.50	3596.73	No Data	3596.73	2807.95
02-Sep-09 19:00:00	3623.50	3596.73	No Data	3596.73	2807.95
02-Sep-09 20:00:00	3623.50	3596.73	No Data	3596.73	2807.95
02-Sep-09 21:00:00	3623.50	3596.73	No Data	3596.73	2807.95
02-Sep-09 22:00:00	3623.50	3596.73	No Data	3596.73	2807.95
02-Sep-09 23:00:00	3623.50	3596.73	No Data	3596.73	2807.95
03-Sep-09 00:00:00	3623.50	3596.73	No Data	3596.73	2807.95
03-Sep-09 01:00:00	3623.50	3596.73	No Data	3596.73	2807.95
03-Sep-09 02:00:00	3623.50	3596.73	No Data	3596.73	2807.95
03-Sep-09 03:00:00	3623.50	3596.73	No Data	3596.73	2807.95
03-Sep-09 04:00:00	3623.50	3596.73	No Data	3596.73	2807.95
03-Sep-09 05:00:00	3623.50	3596.73	No Data	3596.73	2807.95
03-Sep-09 06:00:00	3623.50	3596.73	No Data	3596.73	2807.95
03-Sep-09 07:00:00	3623.50	3596.73	No Data	3596.73	2807.95
03-Sep-09 08:00:00	3623.50	3596.73	No Data	3596.73	2807.95
03-Sep-09 09:00:00	3623.50	3596.73	No Data	3596.73	2807.95
03-Sep-09 10:00:00	3623.50	3596.73	No Data	3596.73	2807.95
03-Sep-09 11:00:00	3623.50	3596.73	No Data	3596.73	2807.95
03-Sep-09 12:00:00	3623.50	3596.73	No Data	3596.73	2807.95
03-Sep-09 13:00:00	3623.50	3596.73	No Data	3596.73	2807.95
03-Sep-09 14:00:00	3623.50	3596.73	No Data	3596.73	2807.95
03-Sep-09 15:00:00	3623.50	3596.73	No Data	3596.73	2807.95
03-Sep-09 16:00:00	3623.50	3596.73	No Data	3596.73	2807.95
03-Sep-09 17:00:00	3623.50	3596.73	No Data	3596.73	2807.95
03-Sep-09 18:00:00	3623.50	3596.73	No Data	3596.73	2807.95
03-Sep-09 19:00:00	3623.50	3596.73	No Data	3596.73	2807.95
03-Sep-09 20:00:00	3623.50	3596.73	No Data	3596.73	2807.95
03-Sep-09 21:00:00	3623.50	3596.73	No Data	3596.73	2807.95
03-Sep-09 22:00:00	3623.50	3596.73	No Data	3596.73	2807.95
03-Sep-09 23:00:00	3623.50	3596.73	No Data	3596.73	2807.95
04-Sep-09 00:00:00	3623.50	3596.73	No Data	3596.73	2807.95

4482.00

06-Sep-09 03:00:00	3623.50	3596.73	No Data	3596.73	2807.95
06-Sep-09 04:00:00	3623.50	3596.73	No Data	3596.73	2807.95
06-Sep-09 05:00:00	3623.50	3596.73	No Data	3596.73	2807.95
06-Sep-09 06:00:00	3623.50	3596.73	No Data	3596.73	2807.95
06-Sep-09 07:00:00	3623.50	3596.73	No Data	3596.73	2807.95
06-Sep-09 08:00:00	3623.50	3596.73	No Data	3596.73	2807.95
06-Sep-09 09:00:00	3623.50	3596.73	No Data	3596.73	2807.95
06-Sep-09 10:00:00	3623.50	3596.73	No Data	3596.73	2807.95
06-Sep-09 11:00:00	3623.50	3596.73	No Data	3596.73	2807.95
06-Sep-09 12:00:00	3623.50	3596.73	No Data	3596.73	2807.95
06-Sep-09 13:00:00	3623.50	3596.73	No Data	3596.73	2807.95
06-Sep-09 14:00:00	3623.50	3596.73	No Data	3596.73	2807.95
06-Sep-09 15:00:00	3623.50	3596.73	No Data	3596.73	2807.95
06-Sep-09 16:00:00	3623.50	3596.73	No Data	3596.73	2807.95
06-Sep-09 17:00:00	3623.50	3596.73	No Data	3596.73	2807.95
06-Sep-09 18:00:00	3623.50	3596.73	No Data	3596.73	2807.95
06-Sep-09 19:00:00	3623.50	3596.73	No Data	3596.73	2807.95
06-Sep-09 20:00:00	3623.50	3596.73	No Data	3596.73	2807.95
06-Sep-09 21:00:00	3623.50	3596.73	No Data	3596.73	2807.95
06-Sep-09 22:00:00	3623.50	3596.73	No Data	3596.73	2807.95
06-Sep-09 23:00:00	3623.50	3596.73	No Data	3596.73	2807.95
07-Sep-09 00:00:00	3623.50	3596.73	No Data	3596.73	2807.95

3a
9/24/10 0:00
10/1/10 0:00
1h

4687 100927
1532

DATE:	T:RTCALC:SYSLOAD MW	T:ECC RTU:SDGE SYS LOAD 5 MIN MOVE AVG MW	T:ECC RTU:SDGE TOTAL SYSTEM LOAD	T:ECC RTU:SDGE AVG SYSTEM LOAD	T:ECC RTU:TOTSYSLOAD MW
24-Sep-10 00:00:00	2028.76	2030.45	No Data	2030.45	1191.47
24-Sep-10 01:00:00	1870.31	1887.57	No Data	1887.57	1128.30
24-Sep-10 02:00:00	1800.95	1801.68	No Data	1801.68	1048.84
24-Sep-10 03:00:00	1760.77	1762.40	No Data	1762.40	1078.03
24-Sep-10 04:00:00	1753.01	1755.27	No Data	1755.27	1086.70
24-Sep-10 05:00:00	1835.53	1830.16	No Data	1830.16	1071.63
24-Sep-10 06:00:00	2048.94	2032.88	No Data	2032.88	1261.41
24-Sep-10 07:00:00	2247.07	2234.89	No Data	2234.89	1421.73
24-Sep-10 08:00:00	2398.31	2384.22	No Data	2384.22	1561.07
24-Sep-10 09:00:00	2573.14	2565.32	No Data	2565.32	1702.07
24-Sep-10 10:00:00	2742.33	2734.18	No Data	2734.18	1935.69
24-Sep-10 11:00:00	2879.52	2873.44	No Data	2873.44	2011.63
24-Sep-10 12:00:00	2974.77	2973.92	No Data	2973.92	2110.33
24-Sep-10 13:00:00	3027.60	3023.76	No Data	3023.76	2154.50
24-Sep-10 14:00:00	3097.33	3101.28	No Data	3101.28	2083.36
24-Sep-10 15:00:00	3134.45	3135.78	No Data	3135.78	2085.55
24-Sep-10 16:00:00	3137.37	3137.65	No Data	3137.65	1992.45
24-Sep-10 17:00:00	3074.38	3080.38	No Data	3080.38	1934.77
24-Sep-10 18:00:00	2968.37	2975.41	No Data	2975.41	2114.68
24-Sep-10 19:00:00	3040.97	3018.88	No Data	3018.88	2204.69
24-Sep-10 20:00:00	3039.32	3041.29	No Data	3041.29	2117.73
24-Sep-10 21:00:00	2890.59	2896.40	No Data	2896.40	2043.55
24-Sep-10 22:00:00	2674.47	2685.41	No Data	2685.41	1822.11
24-Sep-10 23:00:00	2414.18	2421.24	No Data	2421.24	1568.44
25-Sep-10 00:00:00	2157.68	2171.18	No Data	2171.18	1304.56
25-Sep-10 01:00:00	1992.09	1994.39	No Data	1994.39	1151.74
25-Sep-10 02:00:00	1885.17	1893.63	No Data	1893.63	1090.01
25-Sep-10 03:00:00	1836.10	1824.86	No Data	1824.86	1049.46
25-Sep-10 04:00:00	1808.97	1803.97	No Data	1803.97	1065.64
25-Sep-10 05:00:00	1826.14	1823.14	No Data	1823.14	1138.20
25-Sep-10 06:00:00	1901.96	1896.19	No Data	1896.19	1081.33
25-Sep-10 07:00:00	1947.35	1938.44	No Data	1938.44	1359.62
25-Sep-10 08:00:00	2139.65	2126.31	No Data	2126.31	1557.52
25-Sep-10 09:00:00	2385.67	2367.45	No Data	2367.45	1660.54
25-Sep-10 10:00:00	2598.61	2582.85	No Data	2582.85	1806.59
25-Sep-10 11:00:00	2781.66	2776.69	No Data	2776.69	2101.21
25-Sep-10 12:00:00	2949.98	2933.94	No Data	2933.94	2133.33
25-Sep-10 13:00:00	3063.17	3062.11	No Data	3062.11	2119.32
25-Sep-10 14:00:00	3155.28	3146.96	No Data	3146.96	2214.53
25-Sep-10 15:00:00	3227.37	3228.40	No Data	3228.40	2064.09
25-Sep-10 16:00:00	3285.00	3287.76	No Data	3287.76	2018.07
25-Sep-10 17:00:00	3290.91	3296.49	No Data	3296.49	2125.78
25-Sep-10 18:00:00	3196.71	3210.30	No Data	3210.30	2178.86
25-Sep-10 19:00:00	3237.46	3230.84	No Data	3230.84	2265.55
25-Sep-10 20:00:00	3213.70	3212.01	No Data	3212.01	2287.50
25-Sep-10 21:00:00	3006.29	3019.31	No Data	3019.31	2119.32
25-Sep-10 22:00:00	2777.77	2796.46	No Data	2796.46	1956.07

25-Sep-10 23:00:00	2498.58	2510.84	No Data	2510.84	1679.46
26-Sep-10 00:00:00	2236.17	2247.75	No Data	2247.75	1492.92
26-Sep-10 01:00:00	2065.23	2062.81	No Data	2062.81	1389.98
26-Sep-10 02:00:00	1941.71	1942.35	No Data	1942.35	1350.46
26-Sep-10 03:00:00	1867.41	1870.14	No Data	1870.14	1288.27
26-Sep-10 04:00:00	1836.70	1831.25	No Data	1831.25	1261.84
26-Sep-10 05:00:00	1832.89	1832.98	No Data	1832.98	1206.64
26-Sep-10 06:00:00	1884.82	1880.12	No Data	1880.12	1139.72
26-Sep-10 07:00:00	1881.39	1888.99	No Data	1888.99	1277.46
26-Sep-10 08:00:00	2077.79	2068.09	No Data	2068.09	1460.12
26-Sep-10 09:00:00	2339.46	2322.95	No Data	2322.95	1675.11
26-Sep-10 10:00:00	2613.68	2593.58	No Data	2593.58	1774.08
26-Sep-10 11:00:00	2900.63	2872.67	No Data	2872.67	2161.93
26-Sep-10 12:00:00	3146.46	3133.24	No Data	3133.24	2325.10
26-Sep-10 13:00:00	3342.63	3335.68	No Data	3335.68	2412.20
26-Sep-10 14:00:00	3521.82	3512.20	No Data	3512.20	2431.83
26-Sep-10 15:00:00	3622.22	3616.05	No Data	3616.05	2448.93
26-Sep-10 16:00:00	3705.02	3698.16	No Data	3698.16	2477.44
26-Sep-10 17:00:00	3702.46	3708.82	No Data	3708.82	2264.65
26-Sep-10 18:00:00	3620.63	3627.71	No Data	3627.71	2206.72
26-Sep-10 19:00:00	3653.91	3645.19	No Data	3645.19	2274.98
26-Sep-10 20:00:00	3593.88	3604.80	No Data	3604.80	2285.57
26-Sep-10 21:00:00	3359.45	3371.99	No Data	3371.99	2379.51
26-Sep-10 22:00:00	3007.58	3026.57	No Data	3026.57	2049.89
26-Sep-10 23:00:00	2654.96	2658.25	No Data	2658.25	1798.66
27-Sep-10 00:00:00	2353.83	2362.56	No Data	2362.56	1527.34
27-Sep-10 01:00:00	2185.79	2190.54	No Data	2190.54	1523.61
27-Sep-10 02:00:00	2081.93	2084.55	No Data	2084.55	1424.19
27-Sep-10 03:00:00	2017.90	2018.12	No Data	2018.12	1238.67
27-Sep-10 04:00:00	2007.77	2007.13	No Data	2007.13	1138.52
27-Sep-10 05:00:00	2102.94	2089.27	No Data	2089.27	1271.28
27-Sep-10 06:00:00	2337.24	2325.84	No Data	2325.84	1382.96
27-Sep-10 07:00:00	2594.08	2581.04	No Data	2581.04	1566.86
27-Sep-10 08:00:00	2906.93	2878.34	No Data	2878.34	1796.04
27-Sep-10 09:00:00	3305.88	3289.25	No Data	3289.25	2257.47
27-Sep-10 10:00:00	3739.66	3724.02	No Data	3724.02	2426.93
27-Sep-10 11:00:00	4086.46	4074.93	No Data	4074.93	2528.32
27-Sep-10 12:00:00	4361.44	4346.95	No Data	4346.95	2696.54
27-Sep-10 13:00:00	4526.03	4519.69	No Data	4519.69	2818.73
27-Sep-10 14:00:00	4618.25	4605.26	No Data	4605.26	2859.96
27-Sep-10 15:00:00	4667.10	4655.24	No Data	4655.24	2780.73
27-Sep-10 16:00:00	4678.65	4679.49	No Data	4679.49	2707.94
27-Sep-10 17:00:00	4613.78	4624.22	No Data	4624.22	2661.55
27-Sep-10 18:00:00	4390.93	4406.90	No Data	4406.90	2564.04
27-Sep-10 19:00:00	4441.95	4433.85	No Data	4433.85	2626.84
27-Sep-10 20:00:00	4290.93	4301.70	No Data	4301.70	2572.01
27-Sep-10 21:00:00	3965.40	3983.71	No Data	3983.71	2584.87
27-Sep-10 22:00:00	3523.83	3543.98	No Data	3543.98	2219.28
27-Sep-10 23:00:00	3130.72	3150.91	No Data	3150.91	1866.46
28-Sep-10 00:00:00	2765.63	2779.13	No Data	2779.13	1616.93

4687.00

28-Sep-10 01:00:00	2535.69	2549.58	No Data	2549.58	1495.99
28-Sep-10 02:00:00	2408.95	2418.67	No Data	2418.67	1371.10
28-Sep-10 03:00:00	2260.59	2262.09	No Data	2262.09	1319.65
28-Sep-10 04:00:00	2238.17	2232.40	No Data	2232.40	1275.20
28-Sep-10 05:00:00	2310.01	2300.74	No Data	2300.74	1364.44
28-Sep-10 06:00:00	2571.15	2546.02	No Data	2546.02	1578.94
28-Sep-10 07:00:00	2824.67	2814.51	No Data	2814.51	1769.76
28-Sep-10 08:00:00	2987.93	2981.48	No Data	2981.48	2054.34
28-Sep-10 09:00:00	3171.45	3161.34	No Data	3161.34	2140.77
28-Sep-10 10:00:00	3350.23	3351.28	No Data	3351.28	2261.88
28-Sep-10 11:00:00	3588.86	3580.17	No Data	3580.17	2378.94
28-Sep-10 12:00:00	3759.96	3756.73	No Data	3756.73	2582.91
28-Sep-10 13:00:00	3794.33	3794.88	No Data	3794.88	2517.62
28-Sep-10 14:00:00	3784.18	3787.88	No Data	3787.88	2515.14
28-Sep-10 15:00:00	3778.08	3780.95	No Data	3780.95	2375.72
28-Sep-10 16:00:00	3799.03	3803.45	No Data	3803.45	2380.72
28-Sep-10 17:00:00	3747.44	3759.02	No Data	3759.02	2321.84
28-Sep-10 18:00:00	3570.75	3578.55	No Data	3578.55	2164.93
28-Sep-10 19:00:00	3721.39	3721.08	No Data	3721.08	2343.36
28-Sep-10 20:00:00	3675.75	3682.13	No Data	3682.13	2371.37
28-Sep-10 21:00:00	3437.67	3462.80	No Data	3462.80	2277.11
28-Sep-10 22:00:00	3114.05	3128.72	No Data	3128.72	2077.55
28-Sep-10 23:00:00	2727.24	2741.59	No Data	2741.59	1876.41
29-Sep-10 00:00:00	2422.54	2434.53	No Data	2434.53	1694.09
29-Sep-10 01:00:00	2233.89	2234.97	No Data	2234.97	1528.36
29-Sep-10 02:00:00	2132.31	2129.64	No Data	2129.64	1589.64
29-Sep-10 03:00:00	2060.67	2057.31	No Data	2057.31	1514.24
29-Sep-10 04:00:00	2042.25	2040.62	No Data	2040.62	1501.94
29-Sep-10 05:00:00	2111.90	2100.93	No Data	2100.93	1474.82
29-Sep-10 06:00:00	2341.05	2326.47	No Data	2326.47	1633.00
29-Sep-10 07:00:00	2567.45	2555.21	No Data	2555.21	1833.97
29-Sep-10 08:00:00	2751.80	2736.14	No Data	2736.14	1954.50
29-Sep-10 09:00:00	2992.14	2985.74	No Data	2985.74	2160.50
29-Sep-10 10:00:00	3202.49	3201.79	No Data	3201.79	2372.10
29-Sep-10 11:00:00	3419.22	3409.55	No Data	3409.55	2389.24
29-Sep-10 12:00:00	3560.32	3559.54	No Data	3559.54	2509.70
29-Sep-10 13:00:00	3696.75	3691.89	No Data	3691.89	2520.47
29-Sep-10 14:00:00	3790.59	3791.96	No Data	3791.96	2613.23
29-Sep-10 15:00:00	3816.27	3817.43	No Data	3817.43	2597.16
29-Sep-10 16:00:00	3832.51	3831.16	No Data	3831.16	2541.68
29-Sep-10 17:00:00	3750.86	3760.26	No Data	3760.26	2470.64
29-Sep-10 18:00:00	3559.11	3570.91	No Data	3570.91	2402.89
29-Sep-10 19:00:00	3649.14	3648.46	No Data	3648.46	2537.67
29-Sep-10 20:00:00	3596.06	3600.97	No Data	3600.97	2548.67
29-Sep-10 21:00:00	3374.87	3381.91	No Data	3381.91	2460.27
29-Sep-10 22:00:00	3034.59	3061.96	No Data	3061.96	2193.71
29-Sep-10 23:00:00	2666.14	2682.27	No Data	2682.27	1850.11
30-Sep-10 00:00:00	2369.72	2382.82	No Data	2382.82	1587.33
30-Sep-10 01:00:00	2202.87	2205.38	No Data	2205.38	1417.35
30-Sep-10 02:00:00	2101.50	2099.89	No Data	2099.89	1396.65

30-Sep-10 03:00:00	2037.16	2037.77	No Data	2037.77	1334.09
30-Sep-10 04:00:00	2025.91	2021.98	No Data	2021.98	1348.70
30-Sep-10 05:00:00	2096.77	2089.07	No Data	2089.07	1389.01
30-Sep-10 06:00:00	2330.19	2316.62	No Data	2316.62	1558.89
30-Sep-10 07:00:00	2605.56	2590.19	No Data	2590.19	1853.27
30-Sep-10 08:00:00	2746.97	2737.34	No Data	2737.34	2064.04
30-Sep-10 09:00:00	2916.38	2905.45	No Data	2905.45	2110.69
30-Sep-10 10:00:00	3052.78	3042.20	No Data	3042.20	2237.54
30-Sep-10 11:00:00	3108.70	3101.07	No Data	3101.07	2286.45
30-Sep-10 12:00:00	3133.56	3131.76	No Data	3131.76	2194.31
30-Sep-10 13:00:00	3183.42	3182.63	No Data	3182.63	2163.15
30-Sep-10 14:00:00	3185.19	3183.84	No Data	3183.84	2132.83
30-Sep-10 15:00:00	3111.89	3112.88	No Data	3112.88	1987.96
30-Sep-10 16:00:00	3088.56	3090.74	No Data	3090.74	2007.03
30-Sep-10 17:00:00	3085.35	3086.11	No Data	3086.11	2082.57
30-Sep-10 18:00:00	3066.90	3071.37	No Data	3071.37	2077.23
30-Sep-10 19:00:00	3234.48	3229.93	No Data	3229.93	2206.38
30-Sep-10 20:00:00	3200.60	3206.38	No Data	3206.38	2272.80
30-Sep-10 21:00:00	3026.98	3044.53	No Data	3044.53	2186.39
30-Sep-10 22:00:00	2752.56	2768.52	No Data	2768.52	1929.27
30-Sep-10 23:00:00	2429.42	2455.63	No Data	2455.63	1617.24
01-Oct-10 00:00:00	2181.43	2190.80	No Data	2190.80	1391.90

3a
9/4/11 0:00
9/11/11 0:00
1h

4371 110907
1359

DATE:	T:RTCALC:SYSLOAD MW	T:ECC RTU:SDGE SYS LOAD 5 MIN MOVE AVG MW	T:ECC RTU:SDGE TOTAL SYSTEM LOAD	T:ECC RTU:SDGE AVG SYSTEM LOAD	T:ECC RTU:TOTSYSLOAD MW
04-Sep-11 00:00:00	2108.06	2110.02	No Data	2110.02	1224.75
04-Sep-11 01:00:00	1945.05	1953.66	No Data	1953.66	1348.29
04-Sep-11 02:00:00	1853.77	1854.06	No Data	1854.06	1248.02
04-Sep-11 03:00:00	1791.92	1793.98	No Data	1793.98	1184.42
04-Sep-11 04:00:00	1755.16	1756.80	No Data	1756.80	1148.65
04-Sep-11 05:00:00	1756.58	1757.98	No Data	1757.98	1144.16
04-Sep-11 06:00:00	1812.05	1795.98	No Data	1795.98	1187.24
04-Sep-11 07:00:00	1816.36	1811.58	No Data	1811.58	1203.27
04-Sep-11 08:00:00	1991.26	1976.97	No Data	1976.97	1387.19
04-Sep-11 09:00:00	2175.72	2168.68	No Data	2168.68	1510.45
04-Sep-11 10:00:00	2335.04	2331.31	No Data	2331.31	1556.04
04-Sep-11 11:00:00	2473.98	2462.87	No Data	2462.87	1697.39
04-Sep-11 12:00:00	2541.58	2542.56	No Data	2542.56	1716.59
04-Sep-11 13:00:00	2622.19	2616.65	No Data	2616.65	1781.40
04-Sep-11 14:00:00	2673.75	2676.15	No Data	2676.15	1839.90
04-Sep-11 15:00:00	2715.83	2713.00	No Data	2713.00	1843.07
04-Sep-11 16:00:00	2745.99	2734.71	No Data	2734.71	1772.47
04-Sep-11 17:00:00	2731.34	2731.86	No Data	2731.86	1646.60
04-Sep-11 18:00:00	2706.12	2707.48	No Data	2707.48	1691.37
04-Sep-11 19:00:00	2675.59	2670.59	No Data	2670.59	1741.66
04-Sep-11 20:00:00	2816.92	2819.23	No Data	2819.23	1607.08
04-Sep-11 21:00:00	2708.13	2717.96	No Data	2717.96	1776.28
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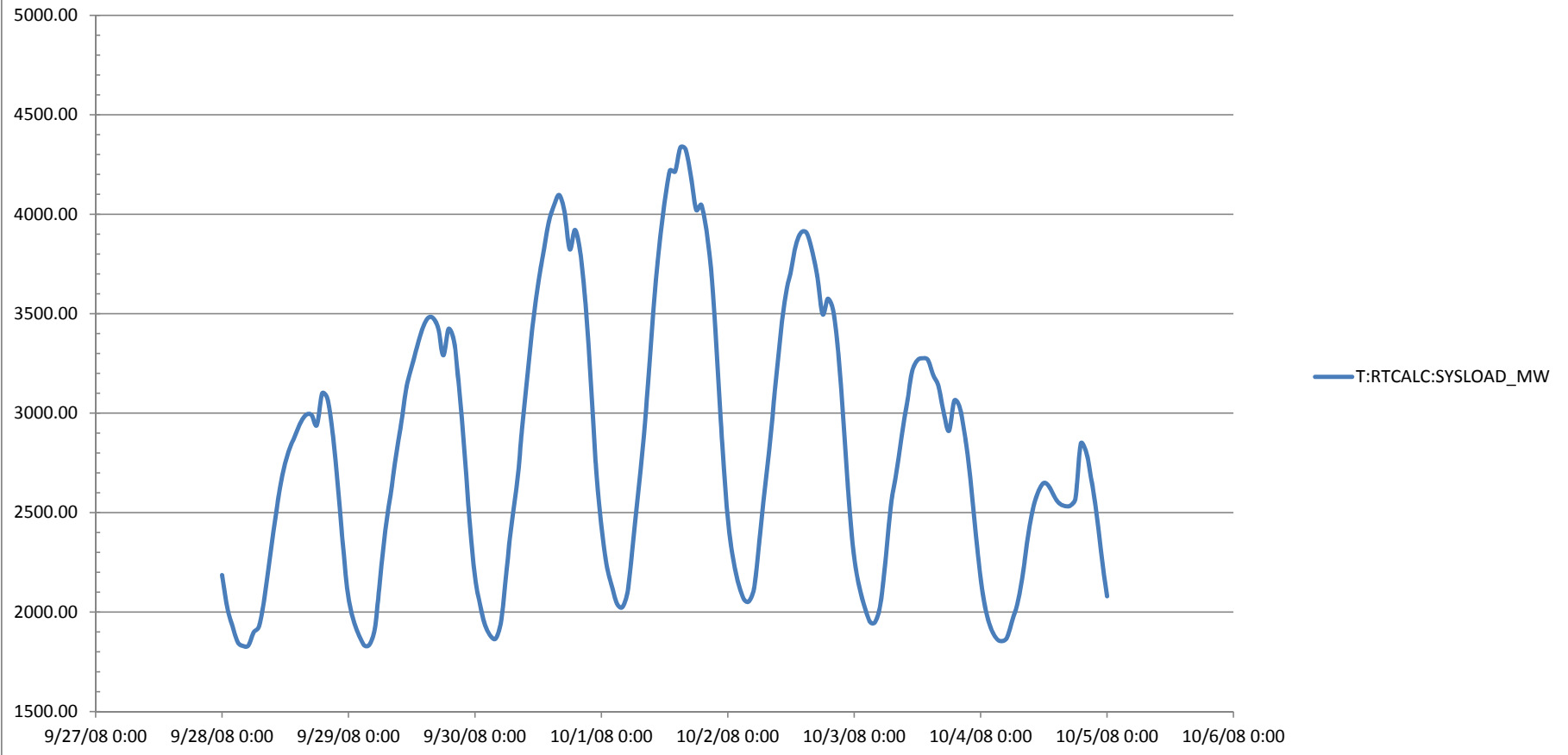
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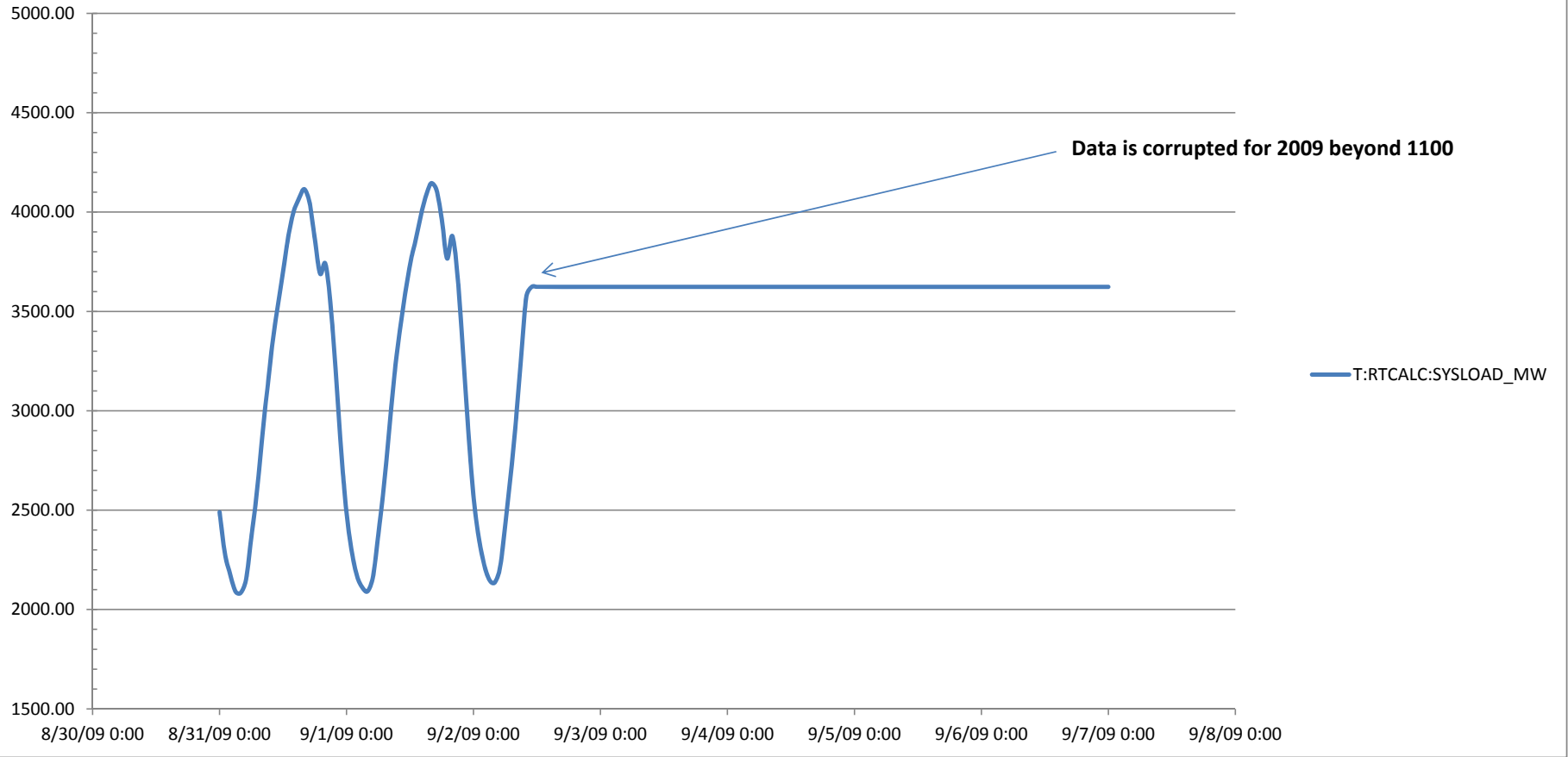
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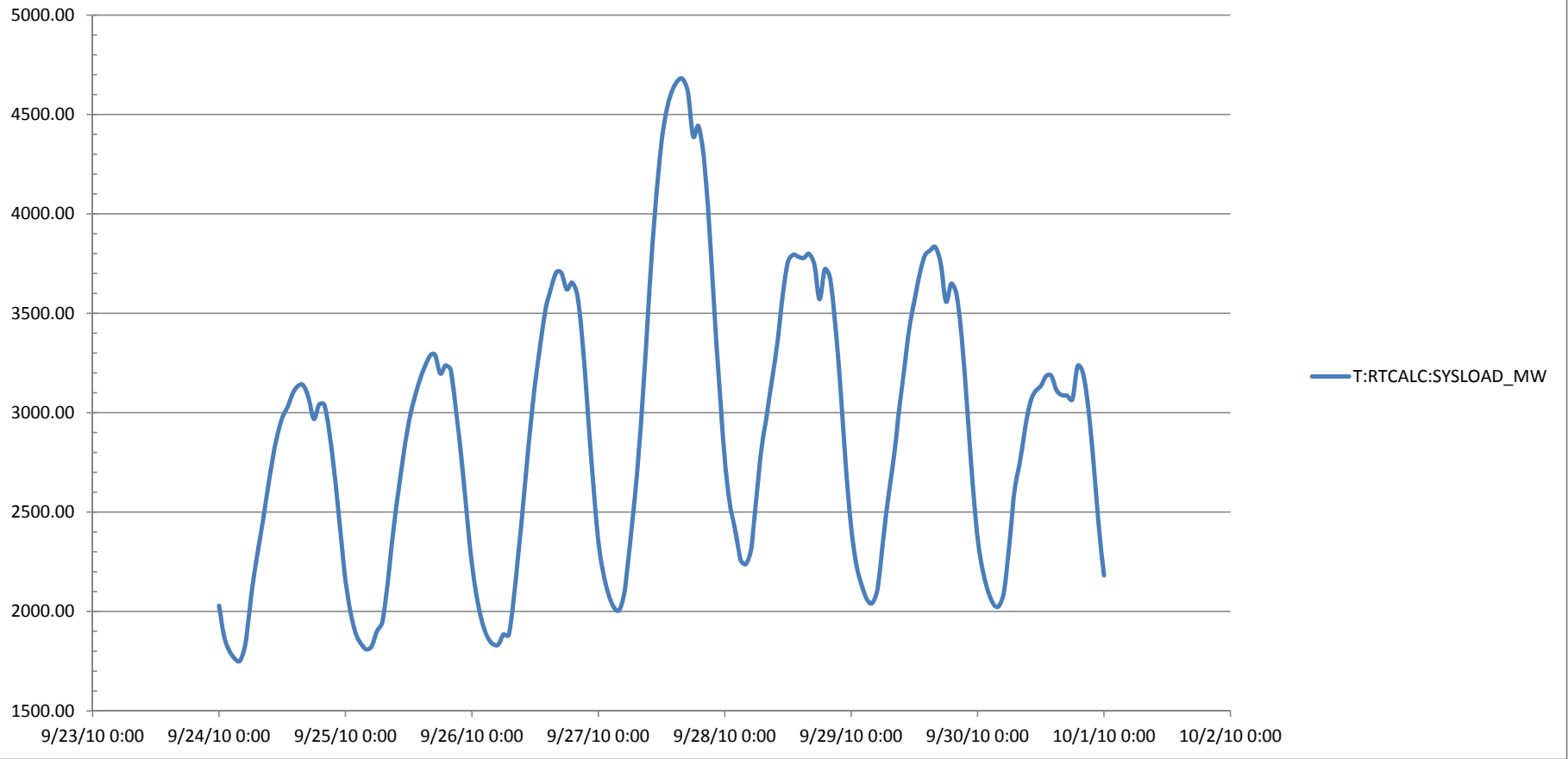
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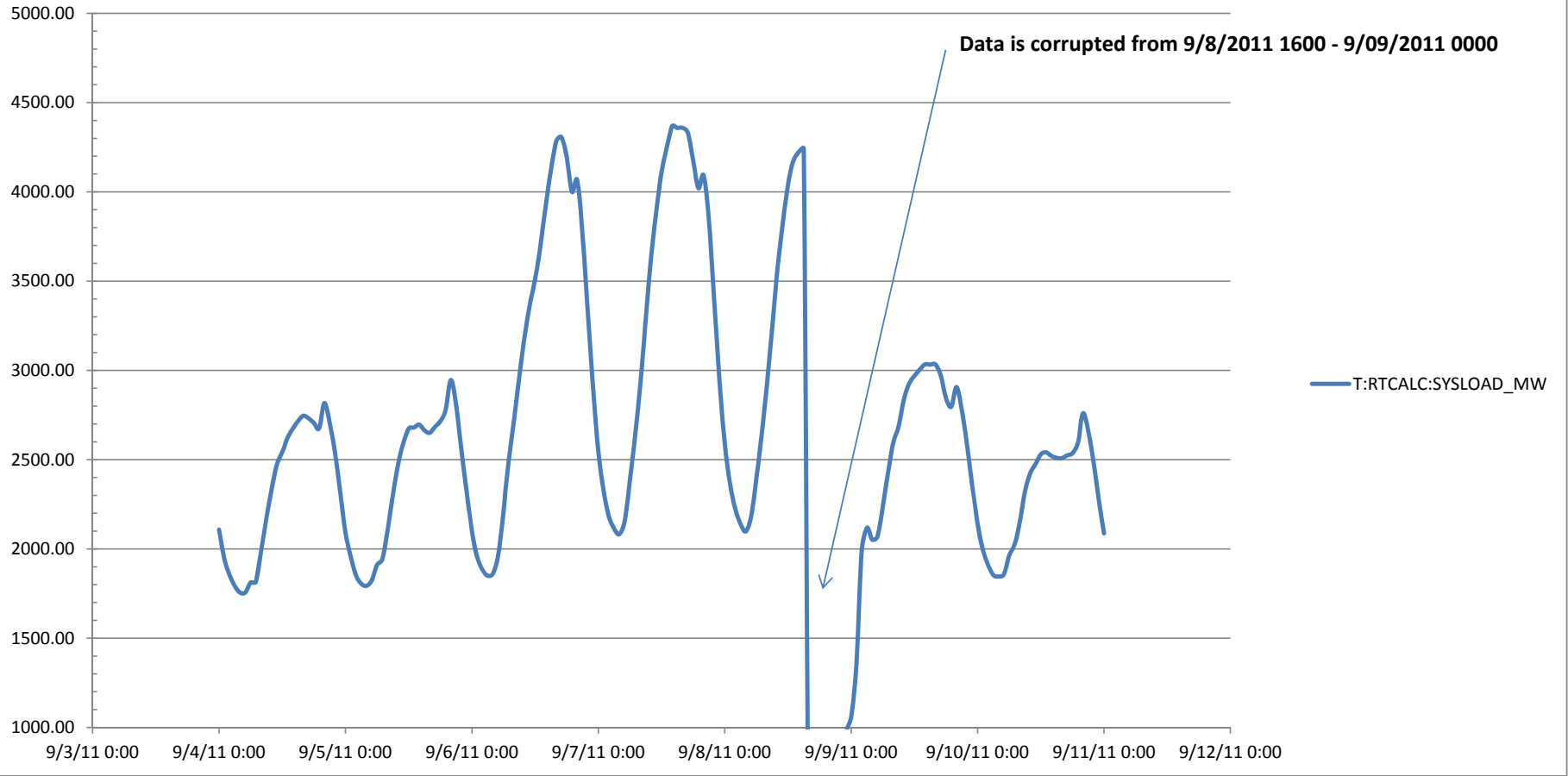
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3b

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9/3/09 13:00
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9/7/11 13:00
 9/7/11 17:00
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3c

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 9/3/09 17:00
 4482_1556

9/27/10 13:00
 9/27/10 17:00
 4687_1532

9/7/11 13:00
 9/7/11 17:00
 4371_1359

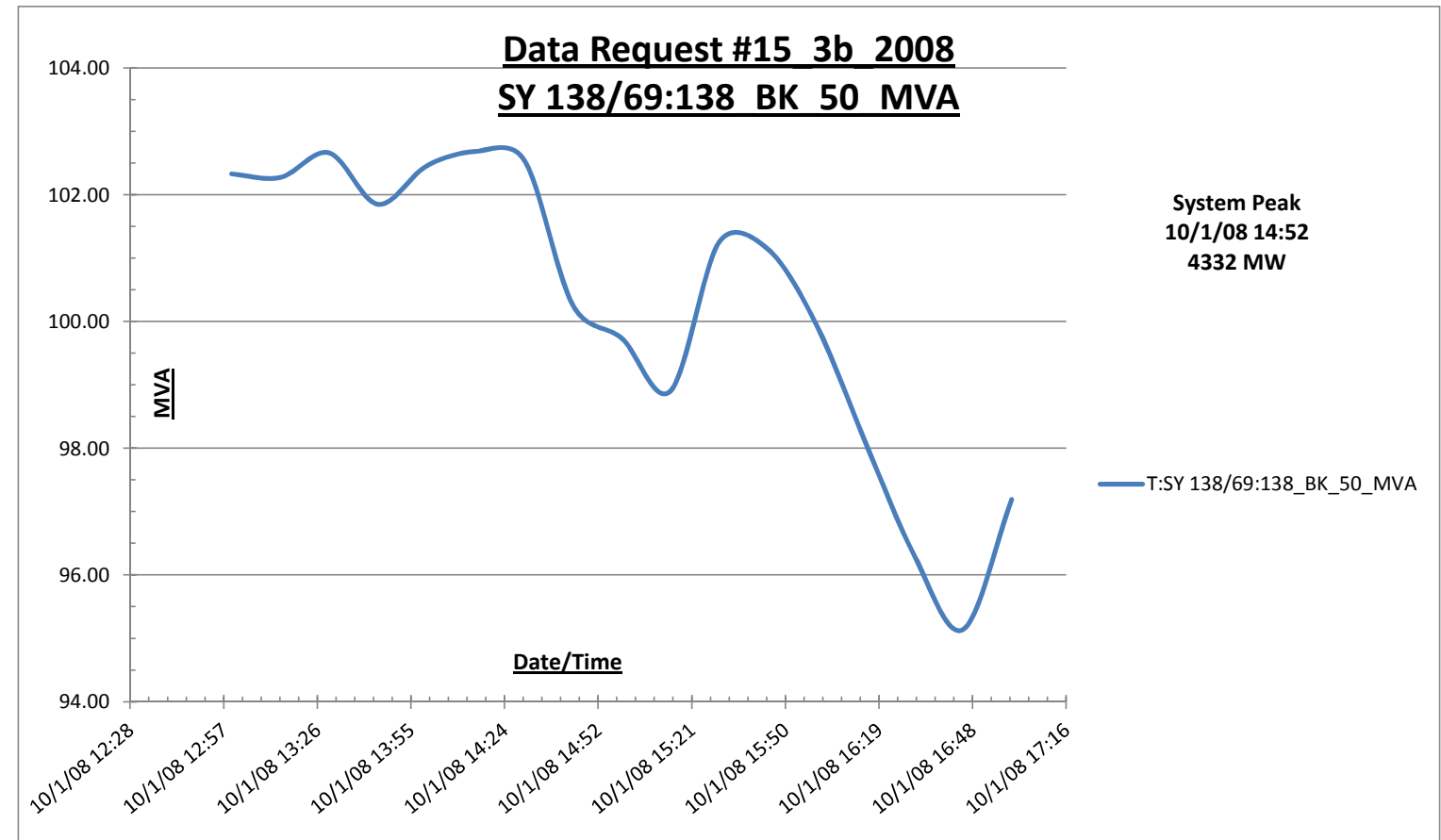
DATE:	T:RTCALC:SYSLOAD_MW	T:OT:230_BK_70_MW	T:OT:230_BK_70_MVAR	T:OT:230_BK_71_MW	T:OT:230_BK_71_MVAR
9/3/07 14:00	No Data	107.52	0.40	107.38	-1.26
10/1/08 15:00	4335.34	118.78	-6.61	118.52	-8.04
9/3/09 13:00	BAD DATA				
9/3/09 17:00					
9/27/10 15:30	4684.85	115.20	-6.60	115.90	-8.26
9/7/11 14:00	4366.94	125.52	-1.21	125.85	-2.61

3b
10/1/08 13:00
10/1/08 17:00
15m

4332_1452

DATE/TIME	T:RTCALC:SYSLOAD_MW	T:SY 138/69:138_BK_50_MW1	T:SY 138/69:138_BK_50_MVAR1	T:SY 138/69:138_BK_50_MVA
01-Oct-08 13:00:00	4218.69	-98.25	-28.63	102.3
01-Oct-08 13:15:00	4238.46	-98.81	-26.40	102.3
01-Oct-08 13:30:00	4261.61	-99.23	-26.31	102.7
01-Oct-08 13:45:00	4224.22	-98.42	-26.22	101.9
01-Oct-08 14:00:00	4214.77	-99.07	-26.13	102.5
01-Oct-08 14:15:00	4219.46	-99.27	-26.28	102.7
01-Oct-08 14:30:00	4306.74	-96.03	-35.99	102.6
01-Oct-08 14:45:00	4327.55	-93.56	-36.03	100.3
01-Oct-08 15:00:00	4335.34	-92.99	-36.07	99.7
01-Oct-08 15:15:00	4329.42	-92.56	-34.87	98.9
01-Oct-08 15:30:00	4339.13	-94.76	-35.66	101.3
01-Oct-08 15:45:00	4327.41	-94.76	-35.35	101.1
01-Oct-08 16:00:00	4325.94	-93.60	-35.04	99.9
01-Oct-08 16:15:00	4303.16	-91.74	-34.73	98.1
01-Oct-08 16:30:00	4294.49	-89.88	-34.60	96.3
01-Oct-08 16:45:00	4247.52	-89.25	-32.97	95.1
01-Oct-08 17:00:00	4191.90	-90.66	-35.02	97.2

DATE/TIME	T:SY 138/69:138_BK_50_MVA
10/1/08 13:00	102.33
10/1/08 13:15	102.27
10/1/08 13:30	102.66
10/1/08 13:45	101.85
10/1/08 14:00	102.46
10/1/08 14:15	102.68
10/1/08 14:30	102.55
10/1/08 14:45	100.26
10/1/08 15:00	99.74
10/1/08 15:15	98.90
10/1/08 15:30	101.25
10/1/08 15:45	101.14
10/1/08 16:00	99.94
10/1/08 16:15	98.10
10/1/08 16:30	96.31
10/1/08 16:45	95.14
10/1/08 17:00	97.19



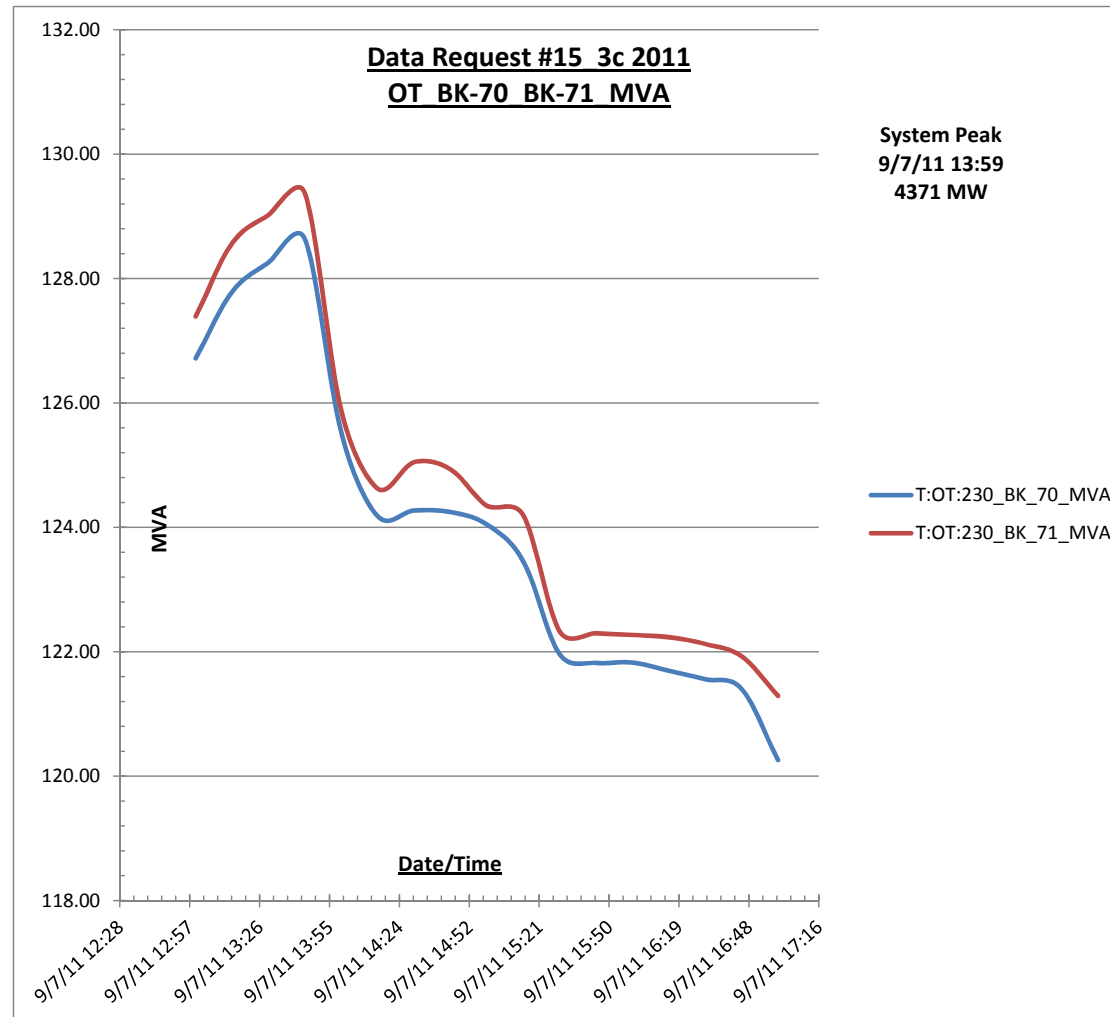
Data Request 15_3c

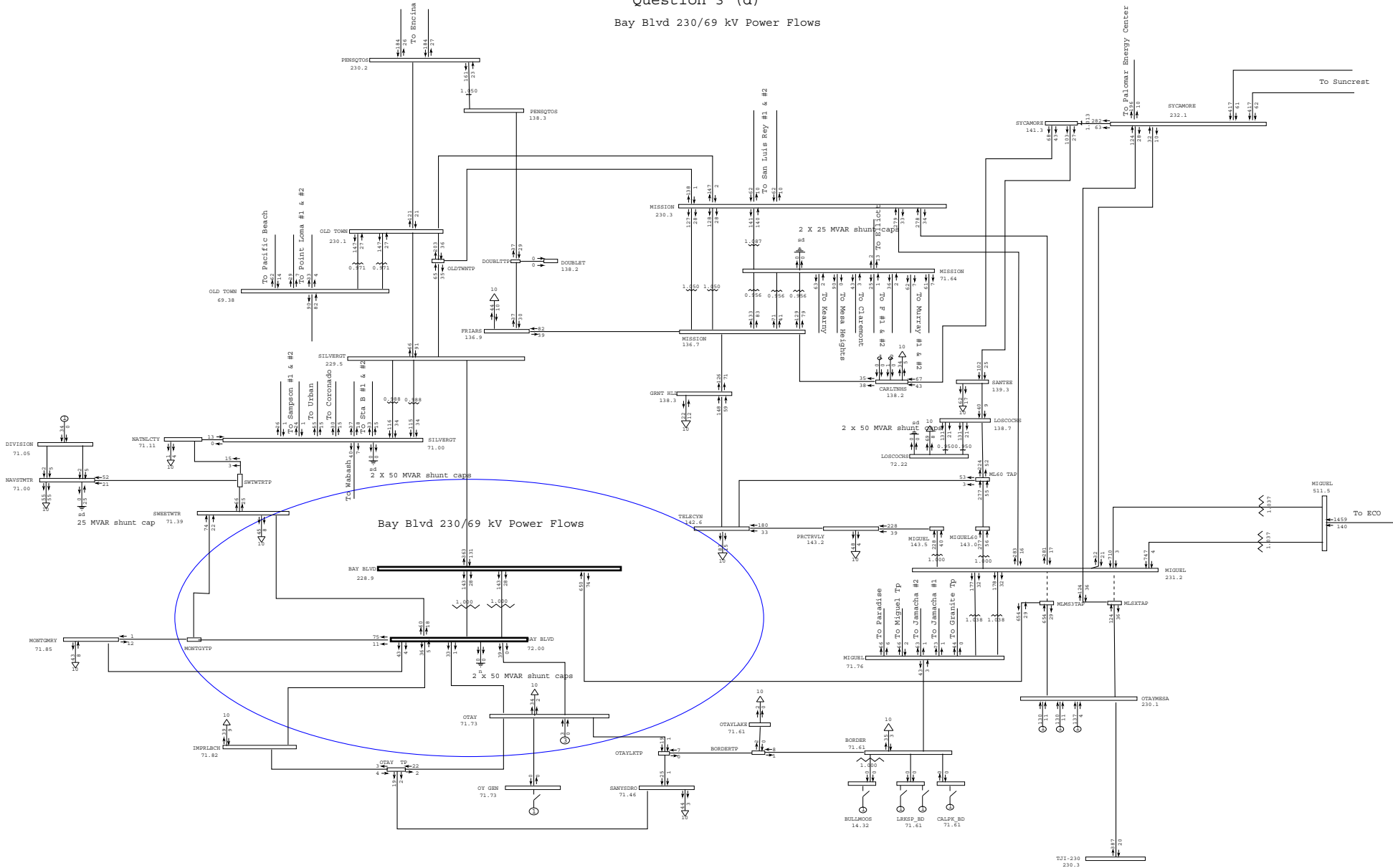
3c
9/7/11 13:00
9/7/11 17:00
15m

4371_1359

DATE/TIME	T:RTCALC:SYSLOAD_MW	T:OT:230_BK_70_MW	T:OT:230_BK_70_MVAR	T:OT:230_BK_70_MVA	T:OT:230_BK_71_MW	T:OT:230_BK_71_MVAR	T:OT:230_BK_71_MVA
9/7/11 13:00	4247.34	126.69	-2.63	126.72	127.32	-4.19	127.4
9/7/11 13:15	4289.94	127.76	-2.52	127.79	128.51	-3.91	128.6
9/7/11 13:30	4328.84	128.23	-2.42	128.26	128.97	-3.75	129.0
9/7/11 13:45	4355.78	128.62	-2.31	128.64	129.32	-3.65	129.4
9/7/11 14:00	4366.94	125.52	-1.21	125.53	125.85	-2.61	125.9
9/7/11 14:15	4346.66	124.18	-1.27	124.18	124.60	-2.60	124.6
9/7/11 14:30	4349.16	124.27	-1.27	124.27	125.02	-2.58	125.0
9/7/11 14:45	4350.27	124.24	-1.27	124.25	124.91	-2.57	124.9
9/7/11 15:00	4358.29	124.04	-1.27	124.05	124.32	-2.56	124.3
9/7/11 15:15	4355.27	123.45	-1.37	123.46	124.17	-2.65	124.2
9/7/11 15:30	4357.95	121.95	-1.86	121.96	122.29	-3.14	122.3
9/7/11 15:45	4355.95	121.80	-2.34	121.82	122.25	-3.62	122.3
9/7/11 16:00	4359.00	121.80	-2.83	121.83	122.20	-4.10	122.3
9/7/11 16:15	4348.94	121.65	-3.24	121.70	122.16	-4.39	122.2
9/7/11 16:30	4358.31	121.51	-3.49	121.56	122.04	-4.68	122.1
9/7/11 16:45	4343.43	121.35	-3.75	121.40	121.83	-4.97	121.9
9/7/11 17:00	4331.24	120.19	-4.00	120.26	121.18	-5.26	121.3

DATE/TIME	T:OT:230_BK_70_MVA	T:OT:230_BK_71_MVA
9/7/11 13:00	126.72	127.39
9/7/11 13:15	127.79	128.57
9/7/11 13:30	128.26	129.02
9/7/11 13:45	128.64	129.38
9/7/11 14:00	125.53	125.87
9/7/11 14:15	124.18	124.62
9/7/11 14:30	124.27	125.05
9/7/11 14:45	124.25	124.94
9/7/11 15:00	124.05	124.35
9/7/11 15:15	123.46	124.20
9/7/11 15:30	121.96	122.33
9/7/11 15:45	121.82	122.30
9/7/11 16:00	121.83	122.27
9/7/11 16:15	121.70	122.24
9/7/11 16:30	121.56	122.12
9/7/11 16:45	121.40	121.93
9/7/11 17:00	120.26	121.29





Model represents year 2014, forecasted load 5193 MW including losses

