

Pacific Gas and Electric Company  
2014 Supplemental Report on  
Electric Distribution Reliability Metrics

(D.04-10-034)

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## I) Investigation of 2014 Reliability Indices (Excluding Major Events)

### General

This supplemental report contains PG&E's 2014 division reliability information, as required by Decision 04-10-034. This report explains threshold variations in division reliability indices relative to the prior five-year averages (excluding major events, as defined per the Institute of Electrical and Electronic Engineers (IEEE) 1366-2003 methodology). This report also highlights the large outage events in each division that exceeded the reporting threshold.

As stated in PG&E's Advice Letter 3812-E (effective July 25, 2011), PG&E has adopted the IEEE Standard 1366-2003 methodology for defining major events, replacing the definition in D.96-09-045. Therefore, in this year's Supplemental Report, the divisions' historical data table was updated to include system reliability data based on the IEEE Standard 1366-2003.<sup>1</sup>

Table 1 summarizes the 2014 division indices that meet the reporting requirement thresholds of 10% for the division per D. 04-10-034 (an 'x' indicates that the 2014 division index exceeded the 10% threshold), and reflects that the system indices did not meet the reporting threshold requirements in 2014<sup>2</sup>.

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<sup>1</sup> IEEE has issued a 2012 revision of Standard 1366 which clarified several of the definitions and introduced two new indices. For purposes of this Supplemental report there is no difference between IEEE Standard 1366-2003 and IEEE Standard 1366-2012.

<sup>2</sup> As in prior reports, PG&E does not interpret this reporting requirement as applying to those indices that were below the prior five-year average by the designated percentages. The 2014 system and division indices have already been provided in PG&E's 2014 Annual Electric Reliability Report (D.96-09-045, D.04-10-034, and Advice Letter 3812-E), submitted on February 27, 2015. The reliability indices in this report are the same as those submitted on February 27, 2015 and include the following changes to D.96-09-045:

- A sustained outage is an outage lasting longer than 5 minutes and a momentary outage is an outage lasting 5 minutes or less.
- Outages involving single line transformers area included in the report
- As mentioned above, PG&E has adopted the IEEE Standard 1366-2003 methodology for defining major events, replacing the definition in D.96-09-045.

**Table 1 – 2014 Indices excluding Major Events  
(Meeting the Reporting Requirement Thresholds)**

	SAIDI	SAIFI	MAIFI	CAIDI
SYSTEM				
CENTRAL COAST				
DE ANZA		X		
DIABLO				
EAST BAY			X	
FRESNO				
HUMBOLDT				
KERN			X	
LOS PADRES				
MISSION				
NORTH BAY			X	
NORTH VALLEY				
PENINSULA			X	
SACRAMENTO				
SAN FRANCISCO				
SAN JOSE			X	
SIERRA			X	
SONOMA				
STOCKTON				X
YOSEMITE				

The following portion of this report discusses the eight 2014 division indices that met the 10% reporting threshold.

### **Division Performance Assessment**

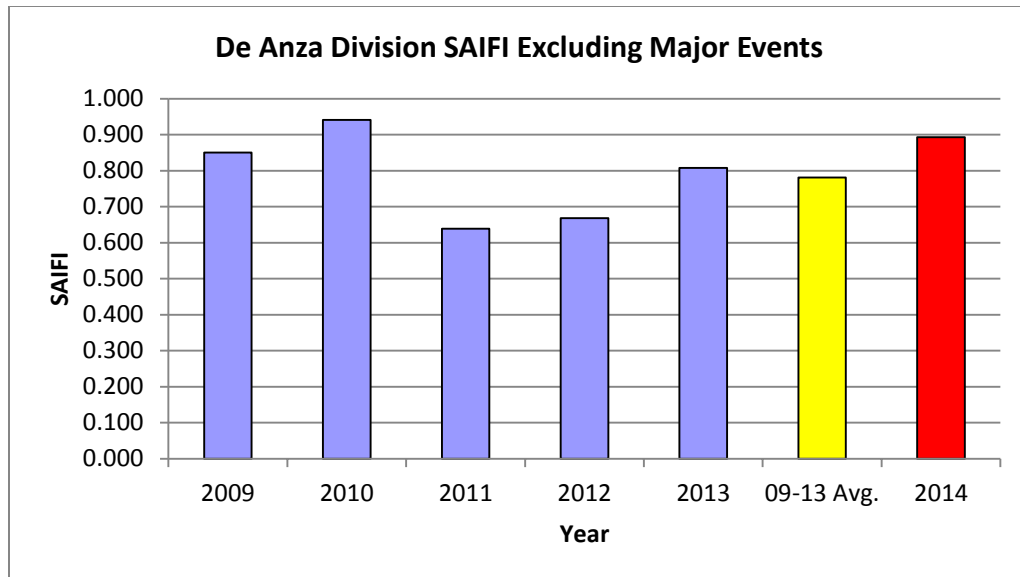
#### De Anza Division Performance Assessment

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2009	DE ANZA	109.3	0.850	1.587	128.6
2010	DE ANZA	116.3	0.941	1.167	123.6
2011	DE ANZA	62.1	0.639	1.174	97.2
2012	DE ANZA	74.6	0.668	1.109	111.7
2013	DE ANZA	77.1	0.808	1.151	95.4
09-13 Avg.	09-13 Avg	87.9	0.781	1.238	111.3
2014	DE ANZA	90.0	0.893	1.210	100.8
	% Difference	2.4%	14.3%	-2.2%	-9.4%

**Table 2 – De Anza Division Historical Reliability Indices**

### De Anza Division SAIFI Performance

De Anza Division's 2014 SAIFI performance of 0.893 was within the range of the past five years but was 0.112 (or 14.3%) higher than the previous 5-year average of 0.781 as shown in the table above and illustrated in the figure below.



**Figure 2 – De Anza Division Historical SAIFI Performance**

The higher than average SAIFI was attributed to the following:

1. The December 2<sup>nd</sup> storm event contributed 0.024 customer-interruptions to the division's SAIFI.
2. The December 4<sup>th</sup> storm event contributed 0.026 to the division's SAIFI.

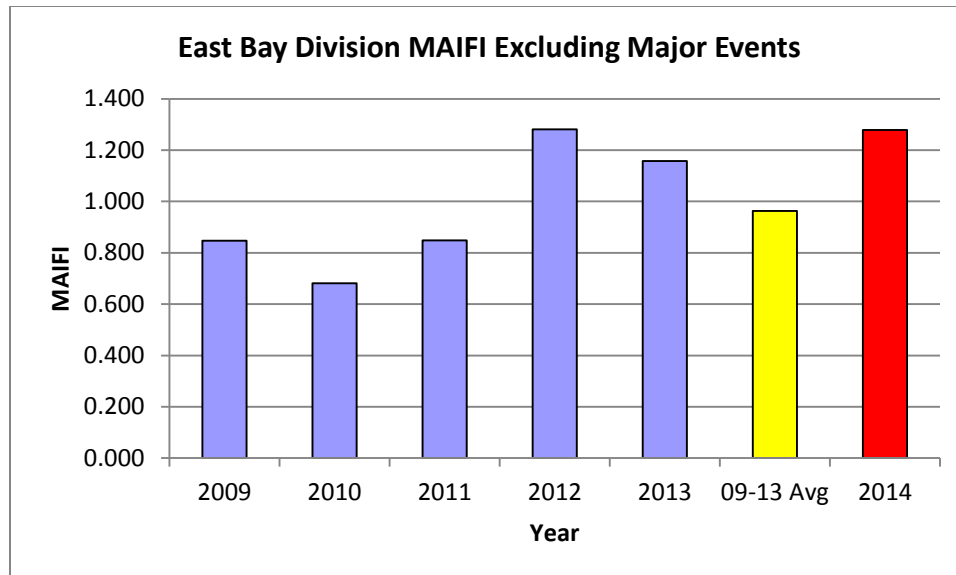
East Bay Division Performance Assessment

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2009	EAST BAY	124.3	1.161	0.847	107.1
2010	EAST BAY	90.5	0.871	0.681	103.8
2011	EAST BAY	88.1	0.850	0.848	103.6
2012	EAST BAY	100.8	1.287	1.281	78.3
2013	EAST BAY	63.3	0.831	1.158	76.2
09-13 Avg	09-13 Avg	93.4	1.000	0.963	93.8
2014	EAST BAY	67.0	0.746	1.279	89.7
	% Difference	-28.3%	-25.4%	32.8%	-4.4%

**Table 3 – East Bay Division Historical Reliability Indices**

East Bay Division MAIFI Performance

East Bay Division’s 2014 MAIFI performance of 1.279 was within the range of the past five years but was 0.316 (or 32.8%) higher than the previous 5-year average of 0.963 as shown in the table above and illustrated in the figure below.



**Figure 3 – East Bay Division Historical MAIFI Performance**

The higher than average MAIFI was attributed to the following:

1. Two unrelated outages occurred on July 15<sup>th</sup>. The first occurred

when a line recloser on the Station D 1115 circuit experienced momentary outages due to the load exceeding the equipment's minimum trip settings, which contributed 0.108 to the division's MAIFI. The second was a momentary outage (cause unknown) on the Station F 1103 circuit, which contributed 0.031 to the division's MAIFI.

2. On September 11<sup>th</sup> a broken insulator on the Pt. Pinole 115 kV contributed 0.049 to the division's MAIFI.
3. The moderate storm event of September 25<sup>th</sup> contributed 0.098 to the division's MAIFI.

Kern Division Performance Assessment

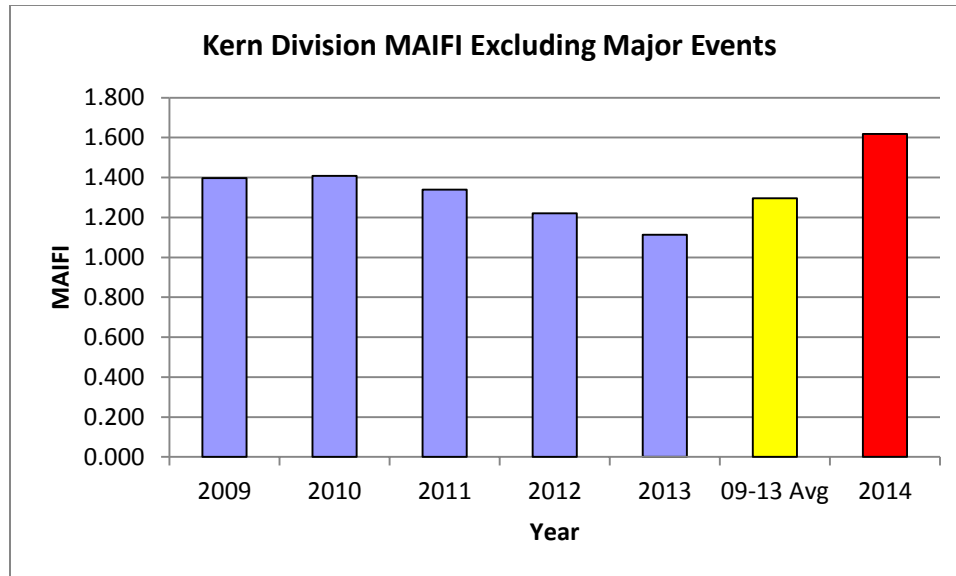
Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2009	KERN	101.0	1.135	1.397	89.1
2010	KERN	120.4	1.075	1.409	112.0
2011	KERN	112.1	0.995	1.340	112.7
2012	KERN	89.9	0.978	1.221	91.9
2013	KERN	88.3	1.046	1.114	84.4
09-13 Avg	09-13 Avg	102.3	1.046	1.296	98.0
2014	KERN	83.7	0.952	1.619	87.9
	% Difference	-18.2%	-9.0%	24.9%	-10.3%

**Table 4 – Kern Division Historical Reliability Indices**

Kern Division MAIFI Performance

Kern Division's 2014 MAIFI performance of 1.619 higher than the range over the last 5 years, and it was 0.323 (or 24.9%) higher than the previous 5-year average of 1.296 as shown in the table above and illustrated in the figure below.





**Figure 4 – Kern Division Historical MAIFI Performance**

The higher than average MAIFI was attributable to the following:

1. On October 22<sup>nd</sup> there was a momentary outage on the Midway / Kern #1 230 kV line (line was patrolled and no cause was found) which contributed 0.083 to the division's MAIFI.
2. October 27<sup>th</sup>, a momentary outage on the Kern Power #2 115 kV (cause is unknown) contributed 0.076 to the division's MAIFI.
3. The storm event of October 31<sup>st</sup> (high winds) contributed 0.093 to the division's MAIFI.

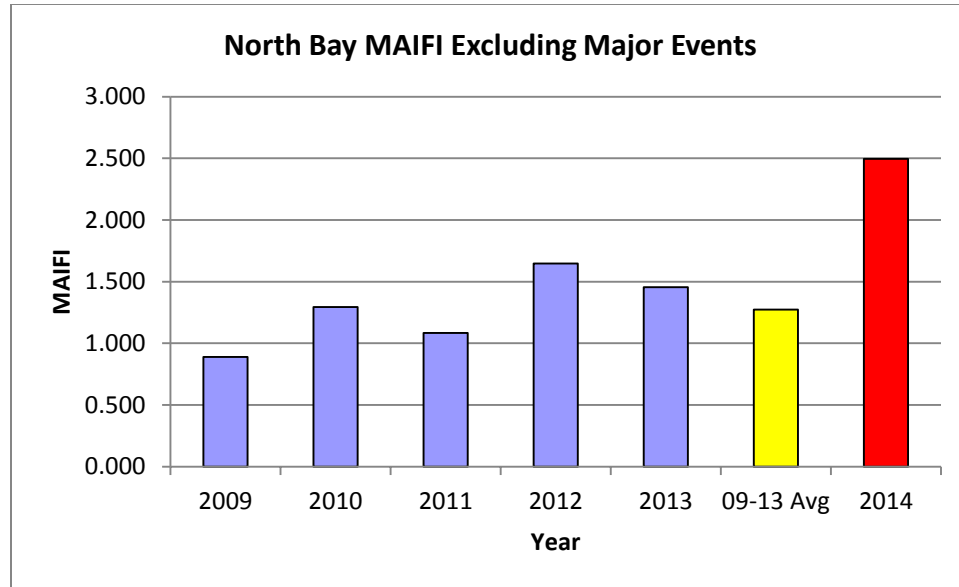
North Bay Division Performance Assessment

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2009	NORTH BAY	112.3	1.058	0.890	106.1
2010	NORTH BAY	131.3	1.035	1.294	126.8
2011	NORTH BAY	111.1	1.082	1.085	102.7
2012	NORTH BAY	109.7	0.791	1.647	138.8
2013	NORTH BAY	101.8	0.910	1.455	111.9
09-13 Avg	09-13 Avg	113.2	0.975	1.274	117.3
2014	NORTH BAY	114.0	0.885	2.495	128.8
	% Difference	0.7%	-9.2%	95.8%	9.8%

**Table 5 – North Bay Division Historical Reliability Indices**

### North Bay Division MAIFI Performance

North Bay Division's 2014 MAIFI performance of 2.495 was higher than the range over the past five years, and 1.221 (or 95.8%) higher than the previous 5-year average of 1.274 as shown in the table above and illustrated in the figure below.



**Figure 5 – North Bay Division Historical MAIFI Performance**

The higher than average MAIFI was attributable to the following:

1. April 1<sup>st</sup> saw a spring storm event that contributed 0.231 to the division's MAIFI.
2. On June 27<sup>th</sup>, 28<sup>th</sup>, and 29<sup>th</sup>, momentary outages on the Ignacio 115 kV line (line was patrolled and no cause was found) contributed 0.320 to the division's MAIFI.
3. On September 19<sup>th</sup>, a broken insulator on the Ignacio 115 kV line contributed 0.032 to the division's MAIFI.
4. On October 20<sup>th</sup>, metallic balloons in the North Tower 115 kV bus contributed 0.458 to the division's MAIFI.

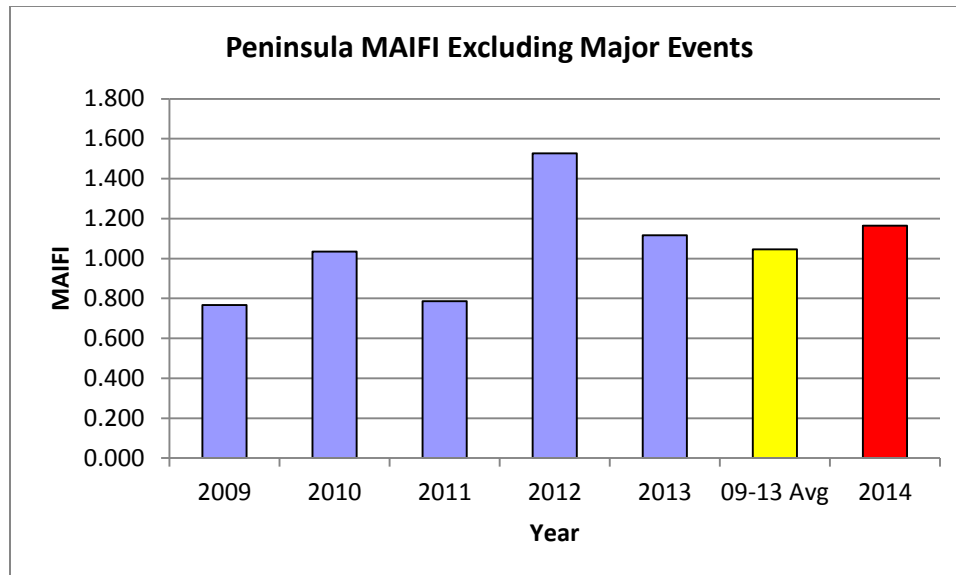
Peninsula Division Performance Assessment

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2009	PENINSULA	80.5	0.850	0.767	94.8
2010	PENINSULA	118.4	1.361	1.035	87.0
2011	PENINSULA	83.8	1.042	0.787	80.4
2012	PENINSULA	87.0	1.000	1.527	87.1
2013	PENINSULA	70.7	0.781	1.117	90.5
09-13 Avg	09-13 Avg	88.1	1.007	1.047	88.0
2014	PENINSULA	77.8	0.899	1.165	86.5
	% Difference	-11.7%	-10.7%	11.3%	-1.7%

**Table 6** – Peninsula Division Historical Reliability Indices

Peninsula Division MAIFI Performance

Peninsula Division’s 2014 MAIFI performance of 1.165 was within the range of the past five years but was 0.118 (or 11.3%) higher than the previous 5-year average of 1.047 as shown in the table above and illustrated in the figure below.



**Figure 6** – Peninsula Division Historical MAIFI Performance

The higher than average MAIFI was attributable to the following:

1. The February storm event contributed 0.073 to the division’s MAIFI.

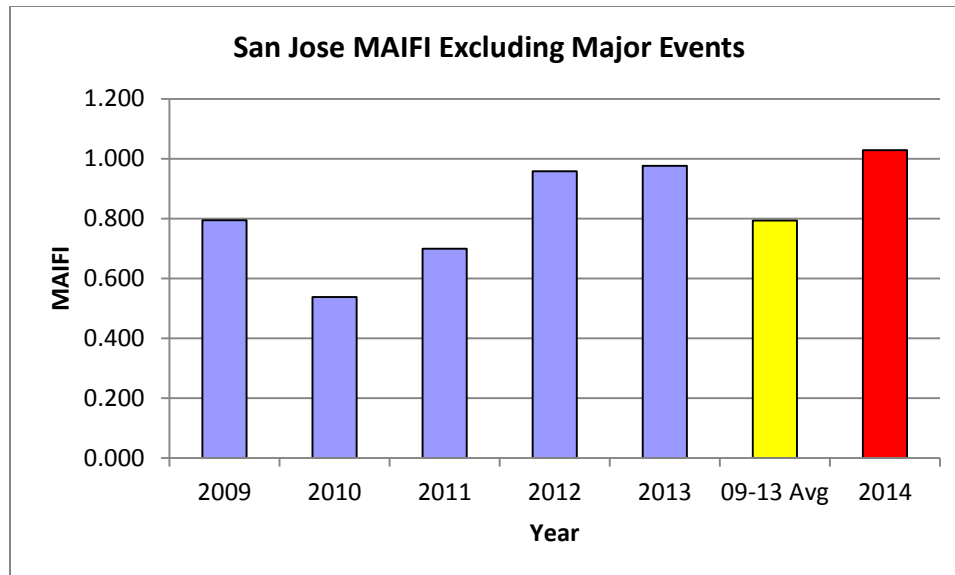
San Jose Division Performance Assessment

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2009	SAN JOSE	75.8	0.753	0.795	100.7
2010	SAN JOSE	69.4	0.759	0.538	91.5
2011	SAN JOSE	101.6	0.886	0.699	114.7
2012	SAN JOSE	80.6	0.780	0.958	103.4
2013	SAN JOSE	97.1	0.915	0.976	106.1
09-13 Avg	09-13 Avg	84.9	0.819	0.793	103.3
2014	SAN JOSE	80.3	0.801	1.029	100.3
	% Difference	-5.4%	-2.2%	29.7%	-2.9%

**Table 7 – San Jose Division Historical Reliability Indices**

San Jose Division MAIFI Performance

San Jose Division’s 2014 MAIFI performance of 1.029 was higher than the range of the past five years, and it was 0.236 (or 29.7%) higher than the previous 5-year average of 0.793 as shown in the table above and illustrated in the figure below.



**Figure 7 – San Jose Division Historical MAIFI Performance**

The higher than average MAIFI was attributable to the following:

1. Unrelated outages on June 14<sup>th</sup> on the Mabury 1104 (due to squirrel on the line), Hick 2103 (cause unknown), McKee 1106 (due to metallic balloon), and Morgan Hill 2105 (due to squirrel on the line) circuits contributed 0.042 to the division’s MAIFI.

2. On July 13<sup>th</sup>, an outage on the LLAGas 115 kV bus (caused by an animal) contributed 0.027 to the division's MAIFI.
3. The October 10<sup>th</sup>, momentary outages on the following circuits contributed 0.043 to the division's MAIFI.
  - a. Edenvale 2108 (due to flashover on recloser)
  - b. Evergreen 2103 (due to flashover on recloser)
  - c. Morgan Hill 2104 (due to car pole)
  - d. Stone 1107 (due to trees)
  - e. Stone 1110 (unknown cause)
4. An unknown caused outage on December 15<sup>th</sup> on the Hicks 2111 circuit contributed 0.054 to the division's MAIFI.

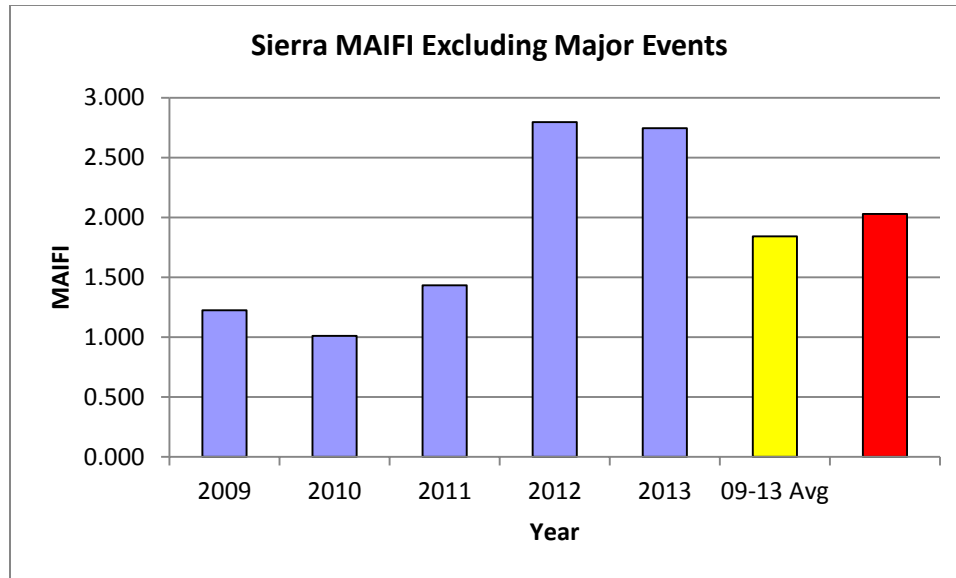
Sierra Division Performance Assessment

Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2009	SIERRA	220.0	1.294	1.224	170.0
2010	SIERRA	163.7	1.156	1.011	141.7
2011	SIERRA	158.2	1.109	1.432	142.6
2012	SIERRA	158.6	1.205	2.797	131.6
2013	SIERRA	99.8	1.113	2.746	89.6
09-13 Avg	09-13 Avg	160.1	1.175	1.842	135.1
2014	SIERRA	132.4	1.105	2.028	119.9
	% Difference	-17.3%	-6.0%	10.1%	-11.3%

**Table 8** – Sierra Division Historical Reliability Indices

Sierra Division MAIFI Performance

Sierra Division's 2014 MAIFI performance of 2.028 was within the range of the past five years but was 0.186 (or 10.1%) higher than the previous 5-year average of 1.842 as shown in the table above and illustrated in the figure below.



**Figure 8 – Sierra Division Historical MAIFI Performance**

The higher than average MAIFI was attributable to the following:

1. On August 11<sup>th</sup>, a momentary outage on a transmission line serving Placerville and Shingle Springs substations (line was patrolled and no cause was found) contributed 0.067 to the division's MAIFI.
2. There were two additional unrelated momentary outages on August 11<sup>th</sup>. These outages were on the Horseshoe 1106 and Narrows 2105 circuits (causes are unknown) and contributed 0.026 to the division's MAIFI.

Stockton Division Performance Assessment

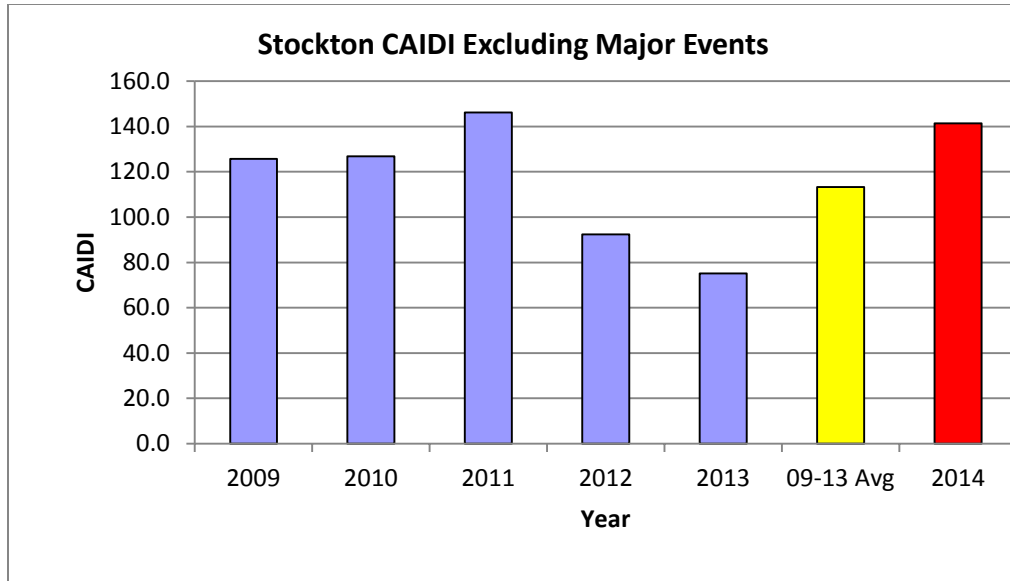
Year	Division	SAIDI	SAIFI	MAIFI	CAIDI
2009	STOCKTON	159.9	1.272	2.702	125.7
2010	STOCKTON	166.2	1.310	1.402	126.8
2011	STOCKTON	180.4	1.234	0.898	146.2
2012	STOCKTON	91.4	0.989	1.975	92.4
2013	STOCKTON	106.9	1.420	2.032	75.2
09-13 Avg	09-13 Avg	141.0	1.245	1.802	113.3
2014	STOCKTON	108.1	0.764	1.324	141.4
	% Difference	-23.3%	-38.6%	-26.5%	24.8%

**Table 9 – Stockton Division Historical Reliability Indices**

Stockton Division CAIDI Performance

Stockton Division's 2014 CAIDI performance of 141.4 was within the range of the

past five years but was 28.1 minutes (or 24.8%) higher than the previous 5-year average of 113.3 minutes as shown in the table above and illustrated in the figure below.



**Figure 9 – Stockton Division Historical CAIDI Performance**

The higher than average CAIDI was attributable to the following:

1. The July 5<sup>th</sup> equipment outages contributed 6.9 minutes to the division's CAIDI.
2. The September 20<sup>th</sup> equipment outages contributed 14.8 minutes to the division's CAIDI.

## II) 2014 Excludable Major Event CAIDI Performance

### Excludable Major Events

This supplemental report contains PG&E’s 2014 system and division CAIDI Information for weather related excludable major events as required by Decision 04-10-034. This report explains variations in system-wide and division CAIDI results pursuant to the reporting requirement thresholds (of 10% and 25%, respectively) above the average of the corresponding prior 10 weather-related excludable major events<sup>3</sup>.

There were excludable four major events (five days in total) in 2014.

The first was a result of the August 24<sup>th</sup> Napa earthquake<sup>4</sup> which had its major impact to North Bay division and, to a lesser extent, Sonoma division. Table 10 summarizes the system and division (North Bay and Sonoma) CAIDI performances during this event and the average of the prior ten weather related excludable major events.

(August 24<sup>th</sup> seismic event in Napa Valley vs Prior 10 Excludable Major Events)

System / Division	Average CAIDI of Prior 10 System / Division Specific Excludable ME	August 24, 2014 / Division Specific CAIDI	Percent Difference From the Prior CAIDI Average	Exceeds the Investigation Threshold?
SYSTEM	315.0	302.5	-4.0%	No
NORTH BAY	192.1	379.9	97.7%	Yes
SONOMA	289.4	227.8	-21.3%	No

Table 10 – August 24<sup>th</sup>, 2014 (Napa Earthquake) CAIDI Performance

The second event occurred on December 3, 2014 as a result of a strong weather system with heavy winds and rainfall that produced 7 inches of rain in the Santa Cruz Mountains and 2-4 inches across the Bay Area. Table 11 summarizes the system and division CAIDI performances during this event and the average of the prior ten weather related major events.

<sup>3</sup> A major event is based on the IEEE definition. As in prior reports, PG&E is using the “prior ten weather related excludable major events” prior to the calendar year that is the subject of the report.

<sup>4</sup> Although the Napa earthquake was not a “weather-related” major event, PG&E has voluntarily included it in this discussion of 2014 excludable major events.



(December 3, 2014 vs. Prior 10 Excludable Major Events)

System / Division	Average CAIDI of Prior 10 System / Division Specific Excludable ME	December 3, 2014 / Division Specific CAIDI	Percent Difference From the Prior CAIDI Average	Exceeds the Investigation Threshold?
SYSTEM	315.0	142.2	-54.9%	No
CENTRAL COAST	812.4	294.8	-63.7%	No
DE ANZA	171.4	137.1	-20.0%	No
DIABLO	106.0	142.1	34.0%	Yes
EAST BAY	238.5	46.9	-80.3%	No
FRESNO	187.0	65.2	-65.1%	No
HUMBOLDT	350.9	145.6	-58.5%	No
KERN	179.5	129.9	-27.6%	No
LOS PADRES	176.3	137.3	-22.1%	No
MISSION	85.5	240.7	181.4%	Yes
NORTH BAY	192.1	290.3	51.1%	Yes
NORTH VALLEY	633.2	92.7	-85.4%	No
PENINSULA	158.4	179.2	13.2%	No
SACRAMENTO	121.2	303.9	150.8%	Yes
SAN FRANCISCO	113.0	99.1	-12.3%	No
SAN JOSE	96.4	64.7	-32.9%	No
SIERRA	380.8	132.7	-65.2%	No
SONOMA	289.4	177.9	-38.5%	No
STOCKTON	484.3	139.1	-71.3%	No
YOSEMITE	529.7	149.3	-71.8%	No

Table 11 – December 3, 2014 CAIDI Performance

The third event occurred on December 11<sup>th</sup> and 12<sup>th</sup> when the strongest storm in three years hit PG&E's service territory. This storm brought gusty winds over 50 miles per hour (mph) in the Bay Area and over 100 mph in the Sierra Nevada mountains along with very heavy rainfall. Table 12 summarizes the system and division CAIDI performances during this event and the average of the prior ten weather related major events.

(December 11-12, 2014 vs. Prior 10 Excludable Major Events)

System / Division	Average CAIDI of Prior 10 System / Division Specific Excludable ME	December 11-12, 2014 / Division Specific CAIDI	Percent Difference From the Prior CAIDI Average	Exceeds the Investigation Threshold?
SYSTEM	315.0	280.5	-10.9%	No
CENTRAL COAST	812.4	307.3	-62.2%	No
DE ANZA	171.4	192.7	12.4%	No
DIABLO	106.0	199.1	87.8%	Yes
EAST BAY	238.5	170.7	-28.4%	No
FRESNO	187.0	82.2	-56.1%	No
HUMBOLDT	350.9	533.3	52.0%	Yes
KERN	179.5	186.5	3.8%	No
LOS PADRES	176.3	479.4	171.9%	Yes
MISSION	85.5	140.7	64.5%	Yes
NORTH BAY	192.1	297.5	54.8%	Yes
NORTH VALLEY	633.2	264.6	-58.2%	No
PENINSULA	158.4	125.0	-21.1%	No
SACRAMENTO	121.2	152.1	25.5%	Yes
SAN FRANCISCO	113.0	309.5	173.9%	Yes
SAN JOSE	96.4	117.0	21.3%	No
SIERRA	380.8	216.0	-43.3%	No
SONOMA	289.4	431.8	49.2%	Yes
STOCKTON	484.3	140.5	-71.0%	No
YOSEMITE	529.7	150.9	-71.5%	No

Table 12 – December 11-12, 2014 CAIDI Performance

The fourth event occurred on December 30<sup>th</sup> when a cold front from Canada hit PG&E's territory with very strong winds (50 to 60 mph in the Bay Area and the Sierra Nevada mountains). Table 13 summarizes the system and division CAIDI performances during this event and the average of the prior ten weather related major events.

(December 30, 2014 vs. Prior 10 Excludable Major Events)

<b>System / Division</b>	<b>Average CAIDI of Prior 10 System / Division Specific Excludable ME</b>	<b>December 30, 2014 / Division Specific CAIDI</b>	<b>Percent Difference From the Prior CAIDI Average</b>	<b>Exceeds the Investigation Threshold?</b>
SYSTEM	315.0	201.3	-36.1%	No
CENTRAL COAST	812.4	253.5	-68.8%	No
DE ANZA	171.4	235.2	37.2%	Yes
DIABLO	106.0	167.9	58.3%	Yes
EAST BAY	238.5	113.1	-52.6%	No
FRESNO	187.0	392.1	109.7%	Yes
HUMBOLDT	350.9	205.0	-41.6%	No
KERN	179.5	20.0	-88.9%	No
LOS PADRES	176.3	86.0	-51.2%	No
MISSION	85.5	135.7	58.7%	Yes
NORTH BAY	192.1	183.4	-4.5%	No
NORTH VALLEY	633.2	444.9	-29.7%	No
PENINSULA	158.4	127.4	-19.6%	No
SACRAMENTO	121.2	88.5	-27.0%	No
SAN FRANCISCO	113.0	73.3	-35.1%	No
SAN JOSE	96.4	161.1	67.1%	Yes
SIERRA	380.8	333.7	-12.4%	No
SONOMA	289.4	84.9	-70.7%	No
STOCKTON	484.3	288.3	-40.5%	No
YOSEMITE	529.7	447.5	-15.5%	No

Table 13 – December 30, 2014 CAIDI Performance

## 1. August 24<sup>th</sup> Seismic Event in Napa Valley

### North Bay Division CAIDI Assessment

North Bay division's CAIDI value of 379.9 minutes for the August 24<sup>th</sup> major event was within the range of the prior ten excludable major events. However, this CAIDI value was 98% higher than the 192.1 minute average of the prior 10 weather-related excludable major events. This higher value was due to the severity of the earthquake in comparison to the past ten weather-related events as summarized below.

System / Division	Major Event Day	CAIDI	SO / Day
NORTH BAY	September 10, 2011	490.9	3
NORTH BAY	October 5, 2011	391.8	14
NORTH BAY	Nov. 30 thru Dec. 1, 2011	145.5	21
NORTH BAY	December 2, 2012	272.4	62
NORTH BAY	December 17, 2012	104.1	2
NORTH BAY	December 21, 2012	123.5	10
NORTH BAY	December 23, 2012	274.7	38
NORTH BAY	April 8, 2013	220.9	31
NORTH BAY	June 23, 2013	131.4	2
NORTH BAY	November 21-22, 2013	112.7	31
	Average of 10 excludable major events	192.1	22
NORTH BAY	August 24, 2014	379.9	114
	% Difference	98%	418%

Table 14 – North Bay Division Historical Performance

As indicated in Table 14, the average number of sustained outages per day on August 24<sup>th</sup>, 2014 was 418% higher than the average of the corresponding prior 10 excludable major events.

The 114 sustained outages on August 24<sup>th</sup> are higher than any one day event on the ten prior major events (sum of all days per event).

## 2. December 3, 2014 Major Event

### Diablo Division CAIDI Assessment

The Diablo division CAIDI value of 142.1 for the December 3<sup>rd</sup> major event was within the range of the prior ten excludable major events. However, this CAIDI value was 34% higher than the 106.0 minute average of the prior 10 weather-related excludable major events.

System / Division	Major Event Day	CAIDI	SO / Day
DIABLO	September 10, 2011	157.3	2
DIABLO	October 5, 2011	108.4	11
DIABLO	Nov. 30 thru Dec. 1, 2011	36.8	6
DIABLO	December 2, 2012	192.7	27
DIABLO	December 17, 2012	281.0	1
DIABLO	December 21, 2012	50.5	7
DIABLO	December 23, 2012	89.5	13
DIABLO	April 8, 2013	107.5	11
DIABLO	June 23, 2013	355.8	2
DIABLO	November 21-22, 2013	117.8	12
	Average of 10 excludable major events	106.0	9
DIABLO	December 3, 2014	142.1	6
	% Difference	34%	-34%

Table 15 – Diablo Division Historical Performance

This higher CAIDI value was due to the following:

- An outage on the Orinda 401 circuit when a tree went through the line breaking the pole and cross-arm. This outage contributed 13.0 minutes to the December 3<sup>rd</sup> division CAIDI performance.
- An outage on the Tidewater 2109 circuit when a squirrel got into the line bringing down the secondary wire. This outage contributed 4.2 minutes to the December 3<sup>rd</sup> division CAIDI performance.

## Mission Division CAIDI Assessment

The Mission division CAIDI value of 240.7 for the December 3<sup>rd</sup> major event was within the range of the prior ten excludable major events. However, this CAIDI value was 181% higher than the 85.5 minute average of the prior 10 weather-related excludable major events.

System / Division	Major Event Day	CAIDI	SO / Day
MISSION	September 10, 2011	302.0	2
MISSION	October 5, 2011	78.5	14
MISSION	Nov. 30 thru Dec. 1, 2011	76.5	18
MISSION	December 2, 2012	103.4	11
MISSION	December 17, 2012	168.2	1
MISSION	December 21, 2012	381.9	3
MISSION	December 23, 2012	101.2	7
MISSION	April 8, 2013	67.9	11
MISSION	June 23, 2013	101.3	3
MISSION	November 21-22, 2013	85.2	15
	Average of 10 excludable major events	85.5	10
MISSION	December 3, 2014	240.7	4
	% Difference	181%	-59%

Table 16 – Mission Division Historical Performance

This higher CAIDI value was due to the following:

- An outage on the Jarvis 1106 circuit due to a failed line transformer. This outage contributed 79.9 minutes to the December 3<sup>rd</sup> division CAIDI performance.
- An outage on the Fremont 1104 circuit due to a failed line transformer. This outage contributed 27.3 minutes to the December 3<sup>rd</sup> division CAIDI performance.
- An outage on the Castro Valley 1101 circuit due to a failed fuse holder. This outage contributed 2.5 minutes to the December 3<sup>rd</sup> division CAIDI performance.

## North Bay Division CAIDI Assessment

The North Bay division CAIDI value of 290.3 for the December 3<sup>rd</sup> major event was within the range of the prior ten excludable major events. However, this CAIDI value was 51% higher than the 192.1 minute average of the prior 10 weather-related excludable major events.

System / Division	Major Event Day	CAIDI	SO / Day
NORTH BAY	September 10, 2011	490.9	3
NORTH BAY	October 5, 2011	391.8	14
NORTH BAY	Nov. 30 thru Dec. 1, 2011	145.5	21
NORTH BAY	December 2, 2012	272.4	62
NORTH BAY	December 17, 2012	104.1	2
NORTH BAY	December 21, 2012	123.5	10
NORTH BAY	December 23, 2012	274.7	38
NORTH BAY	April 8, 2013	220.9	31
NORTH BAY	June 23, 2013	131.4	2
NORTH BAY	November 21-22, 2013	112.7	31
	Average of 10 excludable major events	192.1	22
NORTH BAY	December 3, 2014	290.3	24
	% Difference	51%	9%

Table 17 – North Bay Division Historical Performance

As indicated in Table 17, the average number of sustained outages per day on December 3<sup>rd</sup>, 2014 was 9% higher than the average of the corresponding prior 10 excludable major events.

The 24 sustained outages on December 3<sup>rd</sup> are higher than the average of ten prior major events (sum of all days per event) but the difference is not as high as the CAIDI difference. This illustrates the intensity of the storm event in this division and the causes of the outages. The top three outages on December 3<sup>rd</sup> are:

- An outage on the San Rafael 1104 circuit was caused by a tree falling through the line. This outage contributed 25.5 minutes to the December 3<sup>rd</sup> CAIDI performance in this division.
- An outage on the Olema 1101 circuit was caused when the high winds along the coast slapped the wires together and brought the wires down. This outage contributed 16.2 minutes to the December 3<sup>rd</sup> CAIDI

performance in this division.

- An outage on the Silverado 2015 circuit was caused by tree bark getting into the line which brought the wire down. This outage contributed 19.6 minutes to the December 3<sup>rd</sup> CAIDI performance in this division.

### **Sacramento Division CAIDI Assessment**

The Sacramento division CAIDI value of 303.9 for the December 3<sup>rd</sup> major event was higher than any of the prior ten excludable major events. The CAIDI value was 151% higher than the 121.2 minute average of the prior 10 weather-related excludable major events.

<b>System / Division</b>	<b>Major Event Day</b>	<b>CAIDI</b>	<b>SO / Day</b>
SACRAMENTO	September 10, 2011	139.9	8
SACRAMENTO	October 5, 2011	148.1	8
SACRAMENTO	Nov. 30 thru Dec. 1, 2011	152.5	16
SACRAMENTO	December 2, 2012	94.7	29
SACRAMENTO	December 17, 2012	150.7	8
SACRAMENTO	December 21, 2012	116.4	6
SACRAMENTO	December 23, 2012	148.4	25
SACRAMENTO	April 8, 2013	114.2	34
SACRAMENTO	June 23, 2013	48.0	7
SACRAMENTO	November 21-22, 2013	137.6	27
	Average of 10 excludable major events	121.2	18
SACRAMENTO	December 3, 2014	303.9	18
	% Difference	151%	3%

Table 18 – Sacramento Division Historical Performance

The top two outages on December 3<sup>rd</sup> are:

- An outage on the Putah Creek 1103 circuit was caused by an equipment failure (failed elbow). This outage contributed 119.3 minutes to the December 3<sup>rd</sup> CAIDI performance for this division.
- An outage on the Knights Landing 1103 circuit was caused by two broken poles during this storm event. This outage contributed 47.4 minutes to the December 3<sup>rd</sup> CAIDI performance for this division.



### 3. December 11-12, 2014 Major Event

#### **Diablo Division CAIDI Assessment**

The Diablo division CAIDI value of 199.1 for the December 11-12 major events was within the range of the prior ten excludable major events. However, this CAIDI value was 88% higher than the 106.0 minute average of the prior 10 weather-related excludable major events.

<b>System / Division</b>	<b>Major Event Day</b>	<b>CAIDI</b>	<b>SO / Day</b>
DIABLO	September 10, 2011	157.3	2
DIABLO	October 5, 2011	108.4	11
DIABLO	Nov. 30 thru Dec. 1, 2011	36.8	6
DIABLO	December 2, 2012	192.7	27
DIABLO	December 17, 2012	281.0	1
DIABLO	December 21, 2012	50.5	7
DIABLO	December 23, 2012	89.5	13
DIABLO	April 8, 2013	107.5	11
DIABLO	June 23, 2013	355.8	2
DIABLO	November 21-22, 2013	117.8	12
	Average of 10 excludable major events	106.0	9
DIABLO	December 11-12, 2014	199.1	20
	% Difference	88%	120%

Table 19 – Diablo Division Historical Performance

The higher CAIDI value was due to the severity of the December 11-12 storm when compared to the past ten weather-related events. As indicated in Table 19, the number of sustained outages per day during this excludable major event was 120% higher than the prior ten events. Further review of the December 11-12 event shows that December 11th was hardest hit with 32 sustained outages which is 355% of the daily average of the prior 10 major excludable events.

#### **Humboldt Division CAIDI Assessment**

The Humboldt division CAIDI value of 533.3 for the December 11<sup>th</sup> -12<sup>th</sup> major events was higher than the range of the prior ten excludable major events. In addition, this CAIDI value was 52% higher than the 350.9 minute average of the prior 10 weather-related excludable major events.

<b>System / Division</b>	<b>Major Event Day</b>	<b>CAIDI</b>	<b>SO / Day</b>
HUMBOLDT	September 10, 2011	111.9	4
HUMBOLDT	October 5, 2011	254.9	6
HUMBOLDT	Nov. 30 thru Dec. 1, 2011	134.1	13
HUMBOLDT	December 2, 2012	363.4	98
HUMBOLDT	December 17, 2012	177.6	4
HUMBOLDT	December 21, 2012	136.7	14
HUMBOLDT	December 23, 2012	369.9	47
HUMBOLDT	April 8, 2013	149.5	38
HUMBOLDT	June 23, 2013	109.1	5
HUMBOLDT	November 21-22, 2013	418.2	62
	Average of 10 excludable major events	350.9	30
HUMBOLDT	December 11-12, 2014	533.3	87
	% Difference	52%	184%

Table 20 – Humboldt Division Historical Performance

The higher CAIDI value was due to the severity of the December 11-12 storm when compared to the past ten weather-related events. As indicated in Table 20, the number of sustained outages per day during this excludable major event was 184% higher than the prior ten events. Further review of the December 11-12 event shows that December 11th was hardest hit with 148 sustained outages which is 493% of the daily average of the prior 10 major excludable events.

### **Los Padres Division CAIDI Assessment**

The Los Padres division CAIDI value of 479.4 for the December 11<sup>th</sup> – 12<sup>th</sup> major events was within the range of the prior ten excludable major events. However, this CAIDI value was 172% higher than the 176.3 minute average of the prior 10 weather-related excludable major events.

<b>System / Division</b>	<b>Major Event Day</b>	<b>CAIDI</b>	<b>SO / Day</b>
LOS PADRES	September 10, 2011	159.6	18
LOS PADRES	October 5, 2011	319.2	9
LOS PADRES	Nov. 30 thru Dec. 1, 2011	274.0	26
LOS PADRES	December 2, 2012	231.4	5
LOS PADRES	December 17, 2012	195.8	2
LOS PADRES	December 21, 2012	90.0	1
LOS PADRES	December 23, 2012	497.7	2
LOS PADRES	April 8, 2013	60.2	13
LOS PADRES	June 23, 2013	166.6	28
LOS PADRES	November 21-22, 2013	176.4	7
	Average of 10 excludable major events	176.3	12
LOS PADRES	December 11-12, 2014	479.4	55
	% Difference	172%	362%

Table 21 – Los Padres Division Historical Performance

The higher CAIDI value was due to the severity of the December 11-12 storm when compared to the past ten weather-related events. As indicated in Table 21, the number of sustained outages per day during this excludable major event was 362% higher than the prior ten events. Further review of the December 11-12 event shows that December 11th was hardest hit with 75 sustained outages which is 625% of the daily average of the prior 10 major excludable events.

### **Mission Division CAIDI Assessment**

The Mission division CAIDI value of 140.7 for the December 11<sup>th</sup> -12<sup>th</sup> major events was within the range of the prior ten excludable major events. However, this CAIDI value was 64% higher than the 85.5 minute average of the prior 10 weather-related excludable major events.

<b>System / Division</b>	<b>Major Event Day</b>	<b>CAIDI</b>	<b>SO / Day</b>
MISSION	September 10, 2011	302.0	2
MISSION	October 5, 2011	78.5	14
MISSION	Nov. 30 thru Dec. 1, 2011	76.5	18
MISSION	December 2, 2012	103.4	11
MISSION	December 17, 2012	168.2	1
MISSION	December 21, 2012	381.9	3
MISSION	December 23, 2012	101.2	7
MISSION	April 8, 2013	67.9	11
MISSION	June 23, 2013	101.3	3
MISSION	November 21-22, 2013	85.2	15
	Average of 10 excludable major events	85.5	10
MISSION	December 11-12, 2014	140.7	8
	% Difference	64%	-17%

Table 22 – Mission Division Historical Performance

This higher CAIDI value was due to the following:

- An outage on the Oriole 402 circuit due to a tree that fell into the line. This outage contributed 16.1 minutes to the December 11<sup>th</sup>-12<sup>th</sup> division CAIDI performance.
- An outage on the Vineyard 2105 circuit due to a line-ground fault caused the fuse to operate. This outage contributed 7.7 minutes to the December 11<sup>th</sup>-12<sup>th</sup> division CAIDI performance.
- An outage on the Vineyard 2107 circuit due to a failed elbow in a junction box. This outage contributed 10.2 minutes to the December 11<sup>th</sup>-12<sup>th</sup> division CAIDI performance.
- An outage on the Dumbarton 1106 circuit due to a failed underground switch. This outage contributed 11.2 minutes to the December 11<sup>th</sup>-12<sup>th</sup> division CAIDI performance.

### **North Bay Division CAIDI Assessment**

The North Bay division CAIDI value of 297.5 for the December 11<sup>th</sup> -12<sup>th</sup> major events was within the range of the prior ten excludable major events. However, this CAIDI value was 55% higher than the 192.1 minute average of the prior 10 weather-related excludable major events.

<b>System / Division</b>	<b>Major Event Day</b>	<b>CAIDI</b>	<b>SO / Day</b>
NORTH BAY	September 10, 2011	490.9	3
NORTH BAY	October 5, 2011	391.8	14
NORTH BAY	Nov. 30 thru Dec. 1, 2011	145.5	21
NORTH BAY	December 2, 2012	272.4	62
NORTH BAY	December 17, 2012	104.1	2
NORTH BAY	December 21, 2012	123.5	10
NORTH BAY	December 23, 2012	274.7	38
NORTH BAY	April 8, 2013	220.9	31
NORTH BAY	June 23, 2013	131.4	2
NORTH BAY	November 21-22, 2013	112.7	31
	Average of 10 excludable major events	192.1	22
NORTH BAY	December 11-12, 2014	297.5	37
	% Difference	55%	68%

Table 23 – North Bay Division Historical Performance

The higher CAIDI value was due to the severity of the December 11-12 storm when compared to the past ten weather-related events. As indicated in Table 23, the number of sustained outages per day during this excludable major event was 68% higher than the prior ten events. Further review of the December 11-12 event shows that December 11th was hardest hit with 66 sustained outages which is 300% of the daily average of the prior 10 major excludable events.

### **Sacramento Division CAIDI Assessment**

The Sacramento division CAIDI value of 152.1 for the December 11<sup>th</sup> -12<sup>th</sup> major events was within the range of the prior ten excludable major events. However, this CAIDI value was 26% higher than the 121.2 minute average of the prior 10 weather-related excludable major events.

<b>System / Division</b>	<b>Major Event Day</b>	<b>CAIDI</b>	<b>SO / Day</b>
SACRAMENTO	September 10, 2011	139.9	8
SACRAMENTO	October 5, 2011	148.1	8
SACRAMENTO	Nov. 30 thru Dec. 1, 2011	152.5	16
SACRAMENTO	December 2, 2012	94.7	29
SACRAMENTO	December 17, 2012	150.7	8
SACRAMENTO	December 21, 2012	116.4	6
SACRAMENTO	December 23, 2012	148.4	25
SACRAMENTO	April 8, 2013	114.2	34
SACRAMENTO	June 23, 2013	48.0	7
SACRAMENTO	November 21-22, 2013	137.6	27
	Average of 10 excludable major events	121.2	18
SACRAMENTO	December 11-12, 2014	152.1	15
	% Difference	26%	-14%

Table 24 – Sacramento Division Historical Performance

This higher CAIDI value was due to the following:

- An outage on the Davis 1106 circuit due to primary A phase cable failure. This outage contributed 13.8 minutes to the December 11<sup>th</sup>-12<sup>th</sup> division CAIDI performance.
- An outage on the Grand Island 2227 circuit due to a tree felt into line. This outage contributed 1.8 minutes to the December 11<sup>th</sup>-12<sup>th</sup> division CAIDI performance.

### **San Francisco Division CAIDI Assessment**

The San Francisco division CAIDI value of 309.5 for the December 11<sup>th</sup>-12<sup>th</sup> major events was within the range of the prior ten excludable major events. However, this CAIDI value was 174% higher than the 113 minute average of the prior 10 weather-related excludable major events.

System / Division	Major Event Day	CAIDI	SO / Day
SAN FRANCISCO	September 10, 2011	239.0	1
SAN FRANCISCO	October 5, 2011	123.5	4
SAN FRANCISCO	Nov. 30 thru Dec. 1, 2011	72.8	3
SAN FRANCISCO	December 2, 2012	108.9	12
SAN FRANCISCO	December 17, 2012	354.0	2
SAN FRANCISCO	December 21, 2012	1,049.0	1
SAN FRANCISCO	December 23, 2012	0.0	0
SAN FRANCISCO	April 8, 2013	119.9	7
SAN FRANCISCO	June 23, 2013	109.0	6
SAN FRANCISCO	November 21-22, 2013	354.0	1
	Average of 10 excludable major events	113.0	4
SAN FRANCISCO	December 11-12, 2014	309.5	11
	% Difference	174%	197%

Table 25 – San Francisco Division Historical Performance

This higher CAIDI value was due to the following:

- On December 11, the entire Larkin substation lost power due to cable and equipment failures. This outage contributed 181.3 minutes to the December 11<sup>th</sup> division CAIDI performance.

### **Sonoma Division CAIDI Assessment**

The Sonoma division CAIDI value of 431.8 for the December 11<sup>th</sup> - 12<sup>th</sup> major events was within the range of the prior ten excludable major events. However, this CAIDI value was 49% higher than the 289.4 minute average of the prior 10 weather-related excludable major events.

<b>System / Division</b>	<b>Major Event Day</b>	<b>CAIDI</b>	<b>SO / Day</b>
SONOMA	September 10, 2011	114.8	2
SONOMA	October 5, 2011	265.6	11
SONOMA	Nov. 30 thru Dec. 1, 2011	129.8	18
SONOMA	December 2, 2012	447.6	90
SONOMA	December 17, 2012	305.6	6
SONOMA	December 21, 2012	149.5	9
SONOMA	December 23, 2012	445.2	38
SONOMA	April 8, 2013	302.8	13
SONOMA	June 23, 2013	249.1	3
SONOMA	November 21-22, 2013	246.9	73
	Average of 10 excludable major events	289.4	29
SONOMA	December 11-12, 2014	431.8	59
	% Difference	49%	101%

Table 26 – Sonoma Division Historical Performance

The higher CAIDI value was due to the severity of the December 11-12 storm when compared to the past ten weather-related events. As indicated in Table 26, the number of sustained outages per day during this excludable major event was 101% higher than the prior ten events. Further review of the December 11-12 event shows that December 11th was hardest hit with 96 sustained outages which is 331% of the daily average of the prior 10 major excludable events.



#### 4. December 30, 2014 Major Event

##### **De Anza Division CAIDI Assessment**

The De Anza division CAIDI value of 235.2 for the December 30<sup>th</sup> major event was within the range of the prior ten excludable major events. However, this CAIDI value was 37% higher than the 171.4 minute average of the prior 10 weather-related excludable major events.

<b>System / Division</b>	<b>Major Event Day</b>	<b>CAIDI</b>	<b>SO / Day</b>
DE ANZA	September 10, 2011	102.1	5
DE ANZA	October 5, 2011	432.4	10
DE ANZA	Nov. 30 thru Dec. 1, 2011	179.3	17
DE ANZA	December 2, 2012	210.9	20
DE ANZA	December 17, 2012	0.0	0
DE ANZA	December 21, 2012	57.9	10
DE ANZA	December 23, 2012	188.0	7
DE ANZA	April 8, 2013	183.7	18
DE ANZA	June 23, 2013	36.1	2
DE ANZA	November 21-22, 2013	542.3	1
	Average of 10 excludable major events	171.4	11
DE ANZA	December 30, 2014	235.2	17
	% Difference	37%	60%

Table 27 – De Anza Division Historical Performance

The higher CAIDI value was due to the severity of the December 30<sup>th</sup> storm when compared to the past ten weather-related events. As indicated in Table 27, the 17 sustained outages during this excludable major event was 60% of the prior ten major events (sum of all days per event). This illustrates the intensity of the storm event in this division and the causes of the outages.

##### **Diablo Division CAIDI Assessment**

The Diablo division CAIDI value of 167.9 for the December 30<sup>th</sup> major event was within the range of the prior ten excludable major events. However, this CAIDI value was 58% higher than the 106.0 minute average of the prior 10 weather-related excludable major events.

<b>System / Division</b>	<b>Major Event Day</b>	<b>CAIDI</b>	<b>SO / Day</b>
DIABLO	September 10, 2011	157.3	2
DIABLO	October 5, 2011	108.4	11
DIABLO	Nov. 30 thru Dec. 1, 2011	36.8	6
DIABLO	December 2, 2012	192.7	27
DIABLO	December 17, 2012	281.0	1
DIABLO	December 21, 2012	50.5	7
DIABLO	December 23, 2012	89.5	13
DIABLO	April 8, 2013	107.5	11
DIABLO	June 23, 2013	355.8	2
DIABLO	November 21-22, 2013	117.8	12
	Average of 10 excludable major events	106.0	9
DIABLO	December 30, 2014	167.9	47
	% Difference	58%	417%

Table 28 – Diablo Division Historical Performance

The higher CAIDI value was due to the severity of the December 30<sup>th</sup> storm when compared to the past ten weather-related events. As indicated in Table 28, the 47 sustained outages during this excludable major event was 417% of the prior ten major events (sum of all days per event). This illustrates the intensity of the storm event in this division and the causes of the outages.

### **Fresno Division CAIDI Assessment**

The Fresno division CAIDI value of 392.1 for the December 30<sup>th</sup> major event was higher than the range of the prior ten excludable major events. In addition, this CAIDI value was 110% higher than the 187.0 minute average of the prior 10 weather-related excludable major events.

System / Division	Major Event Day	CAIDI	SO / Day
FRESNO	September 10, 2011	109.6	22
FRESNO	October 5, 2011	172.4	76
FRESNO	Nov. 30 thru Dec. 1, 2011	239.3	98
FRESNO	December 2, 2012	93.5	9
FRESNO	December 17, 2012	84.2	10
FRESNO	December 21, 2012	68.1	9
FRESNO	December 23, 2012	40.8	9
FRESNO	April 8, 2013	110.5	27
FRESNO	June 23, 2013	27.9	6
FRESNO	November 21-22, 2013	74.7	20
	Average of 10 excludable major events	187.0	34
FRESNO	December 30, 2014	392.1	4
	% Difference	110%	-88%

Table 29 – Fresno Division Historical Performance

This higher CAIDI value was due to the following:

- Outages on the Dunlap 1102 and 1103 circuits due to tree branches falling into line. These outages contributed 268.6 minutes to the December 30<sup>th</sup> division CAIDI performance.

### **Mission Division CAIDI Assessment**

The Mission division CAIDI value of 135.7 for the December 30<sup>th</sup> major event was within the range of the prior ten excludable major events. However, this CAIDI value was 59% higher than the 85.5 minute average of the prior 10 weather-related excludable major events.

<b>System / Division</b>	<b>Major Event Day</b>	<b>CAIDI</b>	<b>SO / Day</b>
MISSION	September 10, 2011	302.0	2
MISSION	October 5, 2011	78.5	14
MISSION	Nov. 30 thru Dec. 1, 2011	76.5	18
MISSION	December 2, 2012	103.4	11
MISSION	December 17, 2012	168.2	1
MISSION	December 21, 2012	381.9	3
MISSION	December 23, 2012	101.2	7
MISSION	April 8, 2013	67.9	11
MISSION	June 23, 2013	101.3	3
MISSION	November 21-22, 2013	85.2	15
	Average of 10 excludable major events	85.5	10
MISSION	December 30, 2014	135.7	31
	% Difference	59%	221%

Table 30 – Mission Division Historical Performance

The higher CAIDI value was due to the severity of the December 30<sup>th</sup> storm when compared to the past ten weather-related events. As indicated in Table 30, the 31 sustained outages during this excludable major event was 221% of the prior ten major events (sum of all days per event). This illustrates the intensity of the storm event in this division and the causes of the outages.

### **San Jose Division CAIDI Assessment**

The San Jose division CAIDI value of 161.1 for the December 30<sup>th</sup> major event was within the range of the prior ten excludable major events. However, this CAIDI value was 67% higher than the 96.4 minute average of the prior 10 weather-related excludable major events.

<b>System / Division</b>	<b>Major Event Day</b>	<b>CAIDI</b>	<b>SO / Day</b>
SAN JOSE	September 10, 2011	100.6	3
SAN JOSE	October 5, 2011	135.7	8
SAN JOSE	Nov. 30 thru Dec. 1, 2011	149.5	18
SAN JOSE	December 2, 2012	113.8	20
SAN JOSE	December 17, 2012	20.0	1
SAN JOSE	December 21, 2012	33.9	4
SAN JOSE	December 23, 2012	79.7	6
SAN JOSE	April 8, 2013	59.1	18
SAN JOSE	June 23, 2013	171.7	3
SAN JOSE	November 21-22, 2013	64.4	5
	Average of 10 excludable major events	96.4	9
SAN JOSE	December 30, 2014	161.1	41
	% Difference	67%	351%

Table 31 – San Jose Division Historical Performance

The higher CAIDI value was due to the severity of the December 30<sup>th</sup> storm when compared to the past ten weather-related events. As indicated in Table 31, the 41 sustained outages during this excludable major event was 351% of the prior ten major events (sum of all days per event). This illustrates the intensity of the storm event in this division and the causes of the outages.