

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

Application of Pacific Gas and Electric Company for Authority, Among Other Things, to Increase Rates and Charges for Electric and Gas Service Effective on January 1, 2011.

(U 39 M)

Application No. 09-12-020
(Filed December 21, 2009)

Order Instituting Investigation on the Commission's Own Motion into the Rates, Operations, Practices, Service and Facilities of Pacific Gas and Electric Company.

Investigation 10-07-027
(Filed July 29, 2010)

**PACIFIC GAS AND ELECTRIC COMPANY'S
MARCH 29, 2013 BUDGET REPORT IN COMPLIANCE WITH
CALIFORNIA PUBLIC UTILITIES COMMISSION DECISION 11-05-018**

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Dated: March 29, 2013

Attorneys for
PACIFIC GAS AND ELECTRIC COMPANY

In compliance with Decision (D.) 11-05-018 of the California Public Utilities Commission concerning the above-captioned matter, Pacific Gas and Electric Company hereby submits the attached report presenting electric distribution, electric generation and gas distribution authorized budget amounts for 2013, by major work category, as of January 31, 2013, as well as recorded amounts for 2012, by major work category, with explanations for significant deviations from the Company's authorized budget for 2012.

This report is timely submitted pursuant to Ordering Paragraph 42 of D.11-05-018.

Respectfully Submitted,

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By: /s/ Steven W. Frank

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**Pacific Gas and Electric Company's
March 29, 2013 Budget Report in Compliance With
California Public Utilities Commission Decision 11-05-018**

This report is being submitted in compliance with California Public Utilities Commission Decision 11-05-018 concerning Pacific Gas and Electric Company's (PG&E or the Company) 2011 General Rate Case (GRC). Ordering Paragraph (OP) 42 of that decision, in part, requires that:

Pacific Gas and Electric Company shall provide the following expense and capital expenditure information for electric distribution, electric generation, and gas distribution...

By March 31, 2013:

- Pacific Gas and Electric Company's authorized budgeted amounts, by major work category, for 2013, as of January 31, 2013.
- The recorded amounts for 2012, by major work category, with explanations for significant deviations from Pacific Gas and Electric Company's January 31, 2012 authorized budget for 2012.

Sections 2 through 9 of this report provide the variance explanations for the deviations between 2012 recorded and budgeted amounts, as well as the 2013 budgeted amounts. In this report, PG&E has generally reported deviations between budget and actual recorded amounts that are at least 10 percent or \$1 million. The figures in this report are presented by MWC, arranged by Line of Business (LOB), as follows:

Section 2 – Gas Distribution;
Section 3 – Electric Distribution;
Section 4 – Customer Care;
Section 5 – Nuclear Generation;
Section 6 – Power Generation;
Section 7 – Energy Procurement;
Section 8 – Information Technology; and
Section 9 – Shared Services.

In addition to these LOB-specific sections, PG&E has included in Section 1 of this report background and summary information.

SECTION 1 – Background and Summary Information

A. Background

On August 3, 2011, PG&E filed its first budget report in compliance with OP 42. The first report, which compared imputed regulatory values with budgets for 2011, also described how imputed regulatory values were calculated where they were not explicitly set forth in Decision 11-05-018, PG&E's planning and budgeting process, and changes in MWCs subsequent to the 2011 GRC filing in December 2009.

On March 30, 2012, PG&E filed its second budget report which included 2012 budgets by MWC and a comparison of 2011 budgeted and actual amounts by MWC.

The current report builds off the information contained in these prior reports. Previously reported information is generally not repeated in the current report. In Appendix A of this report, PG&E provides a comprehensive mapping of MWC changes introduced in the 2011 GRC cycle.

B. Comments on Previously Reported Imputed Data

Most imputed values presented in these budget reports are not prescribed in the Decision 11-05-018 and therefore must be calculated using certain assumptions and judgment. There is more than one reasonable method for calculating these imputed amounts.

In the preparation of the current report, PG&E discovered certain issues in the presentation of imputed regulatory values for 2011 in the prior budget reports that warrant comment. Specifically, PG&E previously reported an imputed regulatory value for expense as \$2,289.6 million. (August 3, 2011 Budget Report, p. 1-8, and March 30, 2012 Budget Report, p. 1-2.) PG&E now believes that this more properly should have been reported as \$2,290.8 million. This modification relates to the variety of adjustments made to account for budget transfers. (August 3, 2011 Budget Report, pp. A-2 to A-4, Columns G and H.) For the 2012 imputed values presented in the current report, PG&E has not made the same corresponding adjustments to the imputed values (as shown in the first budget report) except when the budget transfers are associated with organizational realignments.

Also, it warrants noting that the capitalized pension amounts included in the 2011 GRC imputed values are based on the pension forecasts embedded in the 2011 GRC Application and do not reflect the amounts approved in the Pension Decision. (August 3, 2011 Budget Report, pp. 1-8 and A-5, and March 30, 2012 Budget Report, p. 1-2.) For the 2012 capital imputed values presented in the current report, PG&E has continued to use the capitalized pension forecasts embedded in the 2011 GRC Application.

C. 2012 Expense and Capital Comparison Between Budget and Recorded Costs and 2013 Budgeted Amounts

As summarized in the table below, in 2012, PG&E spent \$260 million more than the regulatory value for expense, and \$45 million more than budgeted. For capital, in 2012, PG&E spent \$679 million more than the regulatory value and \$66 million more than budgeted. Also shown in the table below are planned expenditures for 2013 as of January 31, 2013. The overall 2013 planned budget is 4.2 percent higher than the 2012 plan for expense and 10.1 percent higher for capital.

2012 BUDGET VS. ACTUAL EXPENSE BY LINE OF BUSINESS 2013 BUDGET BY LINE OF BUSINESS (MILLIONS OF DOLLARS)

Line No.	Line of Business	Expense					Capital				
		2012 Imputed Regulatory Values	2012 Budget	2012 Actual	Budget vs. Actual (%)	2013 Budget	2012 Imputed Regulatory Values	2012 Budget	2012 Actual	Budget vs. Actual (%)	2013 Budget
1	Gas Distribution	\$229.8	\$307.0	\$363.4	18.4%	\$353.4	\$245.8	\$385.6	\$400.8	3.9%	\$513.8
2	Electric Distribution	559.2	571.5	586.8	2.7%	581.8	1,192.1	1,301.3	1,321.8	1.6%	1,397.5
3	Customer Care	377.5	365.7	365.2	-0.1%	381.5	94.0	129.6	105.3	-18.7%	138.9
4	Nuclear Generation	338.7	336.6	347.9	3.4%	350.6	133.9	260.6	263.6	1.2%	205.2
5	Power Generation	200.5	194.2	214.2	10.3%	217.2	173.8	268.6	296.4	10.4%	262.4
6	Energy Procurement	60.4	50.5	48.9	-3.3%	52.6	-	-	-	-	-
7	Support Orgs and A&G	588.5	691.5	687.9	-0.5%	740.5	399.5	507.1	530.7	4.7%	623.4
8	Subtotal	\$2,354.5	\$2,517.0	\$2,614.2	3.9%	\$2,677.6	\$2,239.2	\$2,852.7	\$2,918.6	2.3%	\$3,141.2
9	Reserve	-	52.4	-	0.0%	-	-	-	-	0.0%	-
10	Total	\$2,354.5	\$2,569.4	\$2,614.2	1.7%	\$2,677.6	\$2,239.2	\$2,852.7	\$2,918.6	2.3%	\$3,141.2

Notes:

1. Reported amounts include increased spending associated with the San Bruno accident as well as increased spending associated with the Tax Relief, Unemployment Insurance Reauthorization, and Job Creation Act of 2010.
2. Imputed regulatory values and planned budgets reflect 100 percent of the costs, however, only 88 percent of the A&G costs are reflected in GRC revenue requirements. While PG&E is not required by D.11-05-018 to present 2012 imputed regulatory values in the current report, PG&E has done so, in part, because PG&E has adjusted the imputed capital values to reflect an evenly distributed spending profile over the 2011-2013 period. (August 3, 2011 Budget Report, p. 1-1.) Therefore, an appropriate comparison of PG&E spending against imputed values would take the entire 2011-2013 period into account.
3. Imputed values, budget, and actual amounts have been adjusted to reflect organization structure changes through 2012 year end.
4. Budget and actual amounts assume no savings from SmartMeter™ deployment, consistent with the 2011 GRC filing.
5. General Information Technology (IT) related costs are reported under the IT section, Section 8.
6. General building related costs are reported under the Shared Services section, Section 9.
7. Separately funded projects and other programs that are rolled into the 2014 GRC, such as SmartMeter™ ratebase, Cornerstone project, Market Redesign Technology Upgrade (MRTU), Fuel Cell Project, Vaca Dixon Project, Meter Reading costs are not included in this presentation, consistent with the 2011 GRC filing.
8. There may be differences due to rounding in this and the other tables included in this report.

D. Summary Variance Explanation by Line of Business

Summarized below are some of the significant drivers of the differences between 2012 planned and recorded costs for each line of business. More detailed explanations are provided in Sections 2 through 9.

Gas Distribution – The Gas Distribution organization overspent its 2012 expense budget by \$56.4 million or 18.4 percent. The increase was primarily driven by work units greater-than-planned for leak survey and repair, locate and mark, isolated steel services, as well as improvements in gas leak and emergency response times. Gas Distribution overspent its 2012 capital budget by \$15.1 million or 3.9 percent. The increase was primarily driven by service leak replacements, high-pressure regulator replacements, and an increase in non-residential new business activity. Gas Distribution’s 2013 budgets for expense and capital are 15.1 and 33.2 percent above 2012 budgets, respectively.

Electric Distribution – The Electric Distribution organization overspent its 2012 expense budget by \$15.4 million or 2.7 percent. The primary drivers were increases in patrols and inspections, and routine outage work. These increases were offset, in part, by delays in pole-test-and-treat work, and a reduction in major storm activity. Electric Distribution overspent its 2012 capital budget by \$20.6 million or 1.6 percent. Increases were primarily driven by an increase in volume of “work requested by others” projects, higher than projected non-residential new business activity, increased routine outage work, substation emergency replacements and underground facility replacements. The increased capital work in these areas was offset, in part, by reductions in major storm activity, pole replacements, and the rescheduling of various large substation projects. Electric Distribution’s 2013 budgets for expense and capital are 1.8 and 7.4 percent above 2012 budgets, respectively.

Customer Care – The Customer Care organization underspent its 2012 expense budget by \$0.5 million or 0.1 percent. Overall, unanticipated increases in contact center costs, higher than planned gas metering corrective maintenance work, and Light Emitting Diode turnkey program expenditures were offset by delays in hiring field metering and customer account services personnel. In 2012, Customer Care spent \$24.2 million or 18.7 percent less than budgeted for capital, primarily due to reductions in expenditures for gas meter changes due to the limited availability of gas service representatives to perform this work while they focused on gas leak and emergency response increases, which was offset in part by increases in electric meter purchases for maintenance and higher-than-planned installation labor costs. Customer Care’s 2013 budgets for expense and capital are 4.3 and 7.2 percent above 2012 budgets, respectively.

Nuclear Generation – The Nuclear Generation organization overspent its 2012 expense budget by \$11.3 million or 3.4 percent. The increased spending was attributable to higher-than-planned maintenance costs to support an extended refueling outage and regulatory-required projects (e.g., Nuclear Regulatory Commission (NRC)

cybersecurity and post-Fukushima assessments), partially offset by reduced overtime and regulatory fees. In 2012, Nuclear Generation overspent its capital budget by \$3.0 million or 1.2 percent, largely to implement security-related improvements driven by the NRC and Fukushima upgrades. Nuclear Generation's 2013 expense budget is 4.2 percent above its 2012 expense budget and its 2013 capital budget is 21.3 percent below its 2012 capital budget.

Power Generation – The Power Generation organization overspent its expense budget by \$20.0 million or 10.3 percent in 2012. The primary drivers of the overspending were unbudgeted emergency work at Helms and the levelizing of the Long Term Service Agreements for Gateway Generating Station. In 2012, Power Generation's capital expenditures were \$27.8 million or 10.4 percent greater than budgeted, largely due to increases in hydro system safety and regulatory projects. Power Generation's 2013 budget for expense is 11.9 percent higher than its 2012 expense budget and its 2013 capital budget is 2.3 percent lower than its 2012 capital budgets.

Energy Procurement – The Energy Procurement organization underspent its expense budget by \$1.7 million or 3.3 percent in 2012. The primary drivers of the reduction in spending were unplanned employee turnover and delays in hiring to fill vacancies. Energy Procurement's 2013 budget for expense is 4.0 percent above its 2012 budget.

Information Technology (IT) – The IT organization underspent its expense budget by \$2.2 million or 0.9 percent in 2012. The primary drivers of the under spending were efficiencies and an increased focus on capital-related projects offset by increased spending on a variety of projects, e.g., Gas Distribution Pathfinder, an integrated planning system to support Finance, and Green House Gas and Energy Trading systems. IT overspent its 2012 capital budget by \$14.6 million or 5.5 percent. The primary drivers of the overspending were laptop purchases to support field initiatives and the rollout of Windows 7. IT's 2013 budgets for expense and capital are 6.4 and 15.7 percent above 2012 budgets, respectively.

Shared Services – The Shared Services organization underspent its 2012 expense budget by \$2.2 million or 3.3 percent. The primary drivers of the under spending were unfilled vacancies and the transfer of funding for some public safety functions to Gas Operations. Shared Services overspent its 2012 capital budget by \$9.0 million or 3.7 percent. The primary driver of the overspending was the conversion from rentals to PG&E-owned vehicles which was offset in large part by a delay in the consolidation of the Gas Operations Distribution Control Center. Shared Services' 2013 budget is 2.9 percent below its 2012 expense budget and 30.7 percent above its 2012 capital budget.

SECTION 2
Gas Distribution
Detailed Variance Explanations

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
GAS DISTRIBUTION EXPENSE AND CAPITAL INFORMATION**

**TABLE 2-1
GAS DISTRIBUTION 2012 EXPENSE COMPARISON SUMMARY
(IN THOUSANDS OF 2012 DOLLARS)**

Line No.	MWC Description	MWC	2012		2012 Difference Higher/(Lower)	2013 Budget
			Budget	Actual		
1	Leak Survey	DE	\$21,016	\$26,273	\$5,258	\$25,236
2	Locate & Mark	DF	28,366	35,260	6,894	32,028
3	Cathodic Protection	DG	22,836	33,212	10,376	12,652
4	Operate Gas Distribution System	FG	3,932	4,981	1,050	11,619
5	Preventive Maintenance (Gas)	FH	21,921	23,014	1,093	52,771
6	Corrective Maintenance (Gas)	FI	53,324	61,266	7,942	69,432
7	Gas Engineering	GG	4,425	6,822	2,397	7,659
8	Gas Research, Development & Demonstration	GZ	200	1,110	910	1,522
9	Gas Meter Protection Program	EX	19,999	7,949	(12,050)	10,368
10	Implement Regulatory Change	KF	0	9	9	0
11	Gas Mapping	GF	934	2,138	1,204	2,000
12	Provide Field Service	DD (1)	82,345	96,432	14,086	85,505
13	Manage Energy Efficiency-NonBA	GM (2)	2,950	3,520	570	2,599
14	Perform Gas Meter Maintenance	HY (3)	0	9,439	9,439	11,881
15	Support	AB	12,275	18,142	5,867	22,480
16	Gas Expense WRO Activities	LK	7,900	7,214	(686)	5,600
17	Distribution Integrity Management Program	JS	24,600	26,599	1,999	0
18	Total		\$307,023	\$363,382	\$56,360	\$353,354

Notes:

- 1 MWC DD is a new MWC in Gas Operations. A portion of MWC DD was split from Customer Care to Gas and Electric Distribution. The amount above reflects portion of the recorded and budgeted expense which is being managed by the Gas Distribution organization.
- 2 MWC GM is a new MWC in Gas Operations. A portion of MWC GM was split from Customer Care to Gas Distribution. The amount above reflects the portion of recorded and budgeted expense which is being managed by the Gas Distribution organization.
- 3 MWC HY is a new MWC in Gas Operations. A portion of MWC HY was split from Customer Care to Gas Distribution. The amount above reflects the portion of recorded and budgeted expense which is being managed by the Gas Distribution organization.

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
GAS DISTRIBUTION EXPENSE AND CAPITAL INFORMATION**

**TABLE 2-2
GAS DISTRIBUTION 2012 CAPITAL COMPARISON SUMMARY
(IN THOUSANDS OF 2012 DOLLARS)**

Line No.	MWC Description	MWC	2012 Budget	2012 Actual	2012 Difference Higher/(Lower)	2013 Budget
1	Gas Pipeline Replacement Program	14	\$172,221	\$165,528	(\$6,694)	\$193,714
2	Gas Meter Protection	27	1,027	5	(1,022)	993
3	Gas Distribution Customer Connections	29	33,000	36,766	3,766	46,230
4	NGV - Station Infrastructure	31 (1)	2,800	1,354	(1,446)	3,000
5	Gas Distribution New Capacity	47	14,000	14,367	367	39,529
6	G Dist Ctrl Operations Assets	4A (2)	0	2,420	2,420	25,922
7	Gas Distribution Reliability	50	59,207	70,622	11,415	75,133
8	Gas Work at the Request of Others	51	53,999	44,390	(9,610)	46,892
9	Gas Distribution Emergency Response	52	1,000	410	(590)	596
10	Tools and Equipment	05	269	1,872	1,604	15,792
11	Gas Distribution Replace/Convert Customer HPRs	2K	42,000	60,124	18,124	49,660
12	Gas T&D Implement Regulatory Change	2J	3,500	320	(3,180)	3,500
13	Install New Gas Meters	74 (3)	2,620	2,581	(39)	12,812
14	Total		\$385,643	\$400,757	\$15,114	\$513,773

Notes:

- 1 MWC 31 is a new MWC in Gas Operations. MWC 31 work was entirely transferred from Customer Care to Gas Distribution.
- 2 MWC 4A is a new MWC in Gas Operations.
- 3 MWC 74 is a new MWC in Gas Operations. A portion of MWC 74 was split from Customer Care to Gas Distribution. The amount above reflects the portion of the recorded and budgeted capital which is being managed by the Gas Distribution organization.

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
GAS DISTRIBUTION EXPENSE AND CAPITAL INFORMATION**

MWC Descriptions – Expense

MWC DE – Leak Survey – is a key public safety and system integrity activity and includes leak survey work to comply with pipeline safety regulations that require PG&E to conduct periodic or routine leak surveys on its distribution systems. It also includes special leak surveys PG&E conducts, outside of the routine leak survey schedule, on its gas distribution system for operating reasons or to assess the integrity of the pipe. For example, a special leak survey occurs when a customer or third-party complains of gas leakage; before and during maximum allowable operating pressure uprates of gas distribution facilities; before, during and after some major third-party construction projects; and for leak rechecks.

MWC DF – Locate and Mark – is a key public safety and system integrity activity and includes work performed to comply with federal pipeline safety regulations and state law that requires PG&E to belong to and share the costs of operating the regional “one-call” notification system. Builders, contractors and others planning to excavate use this system to notify underground facility owners, like PG&E, of their plans. PG&E then provides the excavators with information about the location of its underground facilities by having Company personnel visit the work site and place color-coded surface markings to show where pipes and wires are located.

MWC DG – Cathodic Protection – is a key system safety and integrity activity and includes work to mitigate the effects of corrosion on metallic gas distribution pipelines. Corrosion on gas piping systems can cause leaks and other potential safety hazards. In the case of steel gas lines, the pipe is coated or wrapped before installation, and then Cathodic Protection (CP) is applied using either an impressed system or galvanic anodes as required by federal pipeline safety regulations. The CP system requires continual monitoring on regular intervals to ensure that adequate levels of current are maintained. If the CP system is found to be below protection levels, maintenance personnel or corrosion mechanics troubleshoot to identify the location of the problem. Appropriate corrective action is subsequently performed, which restores the CP system to satisfactory protection levels.

MWC FG – Operate Gas System – includes a broad range of operations to keep the system safe, such as monitoring the system pressures and flows; checking odorant intensity levels for leak detection; operating valves and regulator stations; and changing pressure recorder charts. Additionally, this program includes occasional manual operations to provide necessary capacity during peak demand periods in the morning (e.g., using a compressed (CNG) or liquefied (LNG) natural gas tanker to inject gas, manually opening separation valves to redirect gas, or manually bypassing regulator station equipment to flow more gas).

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
GAS DISTRIBUTION EXPENSE AND CAPITAL INFORMATION**

MWC FH – Preventive Maintenance – is a key system safety and integrity activity and includes work to comply with pipeline safety regulations that require PG&E to conduct periodic or routine maintenance on its gas distribution system. Preventive maintenance work includes regulator station maintenance, maintenance on mains and services, distribution valve replacement, service valve replacement, and overall preventive gas maintenance support.

MWC FI – Corrective Maintenance – includes work to repair or replace damaged or failed gas facilities. In many cases, the need for such restoration is identified during the preventive maintenance activities described in MWC FH. Corrective maintenance includes leak repair, dig-in repair, CP restoration, regulator station repair, and distribution valve repair.

MWC GG – Gas Engineering – includes local gas planning engineers modeling the gas distribution system to ensure a safe, reliable, and cost-effective supply of natural gas to customers and to ensure that the system can accommodate future load growth. By simulating changes in load demand, engineers use modeling to identify potential constraints in the system to support service reliability.

MWC GZ – Gas Research, Development and Demonstration (RD&D) – includes RD&D work in targeted areas of gas distribution. The objectives of gas distribution RD&D are to explore new opportunities, concepts and technologies to continue to provide safe and reliable service to customers at a lower cost, where possible.

MWC EX – Gas Meter Protection Program (MPP) – includes efforts to ensure that gas meter locations that do not conform to current PG&E standards and/or federal pipeline safety regulations are addressed. The program focuses on two types of non-conforming meter locations: those with inadequate protection from potential damage by vehicles; and those with inaccessible service or shutoff valves. The work to correct these non-conforming facilities generally involves one of three work activities: installing barrier posts, installing a new valve or relocating the service.

MWC KF – Implement Regulatory Change – includes work related to modifying PG&E’s gas distribution system processes and procedures in response to changes in the regulatory environment. It includes engineering and operations activities to respond to changes in the regulatory environment as well as any related field activities.

MWC GF –Gas Mapping – encompasses tracking the size, material type, location, configuration, and other essential information needed to monitor and identify over 42,000 miles of underground gas main and nearly 3.3 million gas services. Gas Mapping updates and maintains the gas distribution system maps and records.

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
GAS DISTRIBUTION EXPENSE AND CAPITAL INFORMATION**

MWC AB – Support – includes general support of the gas distribution systems and gas distribution quality assurance programs, including performance improvement initiatives, as well as a number of smaller projects including American Gas Association dues (non-lobbying related). This MWC also includes technical training costs requested in the 2011 GRC. In addition, MWC AB captures standard cost variance of multiple gas distribution workgroups in Gas Operations.¹

MWC LK – Work Requested by Others (WRO) – Gas Maintenance – encompasses work required by tariff, third-party requests, and franchise compliance, including:

- Gas main relocations and rearrangement of gas facilities initiated by customers due to overbuilds (billable to the customer);
- Raise gas valve frame and covers to grade;
- Gas service cutout at property line;
- Provide temporary gas service that is not expected to last more than 1 year (Rule 13) (applicant pays for installation and removal costs); and
- Complete additional work above normal level of mark and locate activities as needed for 3rd party work. Work will normally be done at applicant's expense unless done to comply with city or county franchise agreements.

MWC JS – Distribution Integrity Management Program (DIMP) – is a key program to improve public safety and the integrity of the gas distribution system. DIMP includes development of an overall plan that evaluates risks and implements projects to reduce risks. MWC JS includes developments and improvements in the following areas: the DIMP program, preventative maintenance, leak surveys, operator qualifications, training, and programs such as cross-bored sewer, marker ball installation, and Aldyl-A.

¹ Standard Cost Variance (SCV) represents the difference between actual costs incurred and the amount charged out by employees at a predetermined rate (i.e., standard cost). Costs charged out are calculated using productive hours multiplied by a planned standard hourly rate. When results match initial estimates, SCV should be minimal. That said, while initial estimates do factor in external factors (e.g., extreme weather) based on historical data, actual results inevitably vary resulting in a SCV.

The following is a simplified example of the standard cost calculation and how SCVs occur. Based on the historic pattern of Team A's productivity and anticipated workload, it is projected that Team A will have a monthly cost of \$100,000 for 10 employees and will perform 1,000 hours of work in a month. The resulting standard rate for Team A is \$100 per hour (\$100,000/1,000 hours). If Team A completes 1,000 hours of work in the month according to plan, Team A will have a zero SCV. However, if Team A does not complete all the planned work, e.g., due to unanticipated bad weather, and only completes 950 hours of work, Team A will have an unfavorable SCV of \$5,000 (50 hours x \$100 per hour).

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
GAS DISTRIBUTION EXPENSE AND CAPITAL INFORMATION**

New MWC Descriptions – Expense

MWC DD – Perform Field Services – covers Gas Distribution’s portion of customer-generated field service activities, including pilot relights, gas appliance inspections and adjustments, start/stop service requests, emergency response and other customer-generated field services requests.

MWC GM – Manage Energy Efficiency (Non-Balancing Account) – covers support for maintenance of natural gas vehicles stations.

MWC HY – Perform Gas Meter Maintenance – Includes leak repairs at gas meter that result from leak surveys and repairs from atmospheric corrosion work resulting from the atmospheric corrosion survey.

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
GAS DISTRIBUTION EXPENSE AND CAPITAL INFORMATION**

**TABLE 2-3
GAS DISTRIBUTION 2012 EXPENSE COMPARISON
(IN THOUSANDS OF 2012 DOLLARS)**

Line No.	MWC	2012 Budget	2012 Actual	Difference Higher/(Lower)	Explanation
1	DE	\$21,016	\$26,273	\$5,258	Increase driven by additional leak surveys completed as well as higher than planned unit cost for leak survey.
2	DF	28,366	35,260	6,894	Increase for Locate & Mark activities driven by outreach and awareness campaigns and higher than planned standby personnel requests.
3	DG	22,836	33,212	10,376	Increase in quantity of Isolated Steel Service Projects and Troubleshooting.
4	FG	3,932	4,981	1,050	Increase driven by construction labor on regulator stations and by intercompany energy usage (PG&E internal departmental energy) costs.
5	FH	21,921	23,014	1,093	Increase driven by additional maintenance on mains and services in the Northern Region.
6	FI	53,324	61,266	7,942	Increase in volume of accelerated leak repair.
7	GG	4,425	6,822	2,397	Increase in engineering expense due to additional hiring in the Central Coast and Northern Regions.
8	GZ	200	1,110	910	Increase primarily driven by a newly formed Gas Leak Research and Development (R&D) initiative related to the Picarro technology.
9	EX	19,999	7,949	(12,050)	Decrease driven by lower unit cost to install posts for meter protection as well as less volume than planned to fund higher priority activities within gas operations.
10	KF	0	9	9	Immaterial variance.
11	GF	934	2,138	1,204	Increase driven by two high priority new projects. (Gas and Electric Mapping Systems (GEMS) Validation, Gas Mapping Division Backlog)
12	DD	82,345	96,432	14,086	Increase driven by efforts to improve gas leak and emergency response time including new field positions and higher level of overtime.
13	GM	2,950	3,520	570	Increase driven by additional maintenance by fleet services for natural gas vehicles.
14	HY	0	9,439	9,439	Increase driven by additional labor hours for leak survey non-gradeable leak repairs for meter and atmospheric corrosion work.
15	AB	12,275	18,142	5,867	Increase due to unplanned costs to develop training curriculum and Bishop Ranch lease costs.
16	LK	7,900	7,214	(686)	Immaterial variance.
17	JS	24,600	26,599	1,999	Increase due to additional scoping and analysis costs associated with Aldyl-A and more work than anticipated related to Cross Bored Sewer Management.
18	Total	\$307,023	\$363,382	\$56,360	

2-7

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
GAS DISTRIBUTION EXPENSE AND CAPITAL INFORMATION**

MWC Descriptions – Capital

MWC 14 – Gas Pipeline Replacement Program (GPRP) – is a key safety and integrity program and primarily encompasses three gas distribution asset replacement programs, the GPRP, Copper Service Replacement Program (CSR) and plastic replacement program. The GPRP targets cast iron and pre-1940 steel gas mains. PG&E uses age, materials, seismic factors, and gas leaks to identify and prioritize gas mains for replacement. In addition to gas main replacement, the program includes related service replacement and meter relocation work. CSR was added to MWC 14 in 2006 because copper services were determined to have a similar relative risk to GPRP pipe. Subsequently, plastic was added into MWC 14 in 2012 because of increase in the relative risk of vintage plastic material such as Aldyl-A.

MWC 27 – Gas Meter Protection Program (MPP) – includes efforts to ensure that gas meter locations that do not conform to current PG&E standards and/or federal pipeline safety regulations are addressed. The program focuses on two types of non-conforming meter locations: those with inadequate protection from potential damage by vehicles; and those with inaccessible service or shutoff valves. The work to correct these non-conforming facilities generally involves one of three work activities: installing barrier posts, installing a new valve or relocating the service.

MWC 29 – Gas Distribution Customer Connections – includes building new gas distribution systems to provide service to new customers and the costs of regulators purchased for emergency response, regulator change outs, and system upgrades.

MWC 47 – Gas Distribution New Capacity – includes capacity additions to meet load growth by reinforcing the existing gas systems.

MWC 50 – Gas Distribution Reliability – includes installation or replacement of gas facilities to: improve system safety and reliability, replace aging facilities (which have reached the end of their useful life or have increasing failure rates), and maintain compliance with pipeline safety regulations. Facilities replaced include: services, regulator stations, cathodic protection equipment, electronic chart recorders and remote cathodic protection monitoring equipment.

MWC 51 – Gas Work at the Request of Others – includes relocating gas distribution and service facilities at the request of a governmental agency or other third parties (e.g., customers and developers). This work could be due to road widening, street improvements, sewer improvements and other similar work.

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
GAS DISTRIBUTION EXPENSE AND CAPITAL INFORMATION**

MWC 52 – Gas Distribution Emergency Response – includes work and materials required to replace damaged or failed facilities including replacement of mains and services due to gas dig-ins and external forces such as landslides and earthquakes.

MWC 05 – Tools and Equipment – includes the costs of miscellaneous tools and equipment. Regular expenditures are necessary to replace damaged, worn out, or obsolete tools and to ensure specialized tools are available to perform testing and other functions.

MWC 2K – Gas Distribution Replace/Convert Customer HPRs – is a key safety and integrity program and includes the replacement of gas customer High Pressure Regulators (HPR) or the reconstruction of gas distribution systems to eliminate the need for HPRs.

MWC 2J – Gas T&D Implement Regulatory Change – includes all capital efforts necessary to comply with and implement orders, instructions, or recommendations from regulatory or governmental agencies as a result of the San Bruno Incident. MWC 2J is limited to the initial implementation and set up of process changes and includes: class location work; upgrade of older pipelines to enable pipeline inspection by “pigging” devices and the purchase of cameras and other tools needed for in-line inspections; purchase of trailers used for CNG and LNG injections into areas of inadequate pressure as a result of the San Bruno Incident; various replacements and upgrades to Line 132 and its supporting facilities; and costs associated with the purchase of computers, servers, and other hardware for the Maximum Allowable Operating Pressure project. (These costs are generally for gas transmission-related services, however, this MWC also includes costs associated with restoring distribution service to customers impacted by the San Bruno Incident.)

New MWC Description – Capital

MWC 31 – Natural Gas Vehicle Station Infrastructure – includes costs of necessary upgrades for compressed natural gas fueling stations to fuel vehicles added each year.

MWC 4A – Gas Distribution Control Operations Assets – includes costs associated with the installation of Supervisory Control and Data Acquisition devices, electronic recorders, and similar instrumentation assets and related tools. MWC 4A provides for the development of software tools to support the collection, retention, and presentation of data related to the Control Center. Capital outlays support telecommunication radio system assets to monitor and control the gas distribution network.

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
GAS DISTRIBUTION EXPENSE AND CAPITAL INFORMATION**

MWC 74 – Gas Metering Capital – includes regulator replacement labor to remove and install new regulators and meters and regulators for new business connections and labor to install.

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
GAS DISTRIBUTION EXPENSE AND CAPITAL INFORMATION**

**TABLE 2-4
GAS DISTRIBUTION 2012 CAPITAL COMPARISON
(IN THOUSANDS OF 2012 DOLLARS)**

Line No.	MWC	2012 Budget	2012 Actual	Difference Higher/(Lower)	Explanation
1	14	\$172,221	\$165,528	(\$6,694)	Decrease due to permit delays for the San Francisco project, and delays in various projects due to resource constraints in both estimating and contract processing.
2	27	1,027	5	(1,022)	Decrease driven by lower than forecasted capital meter protection installations.
3	29	33,000	36,766	3,766	Increase in non-residential gas connects.
4	31	2,800	1,354	(1,446)	Decrease driven by less than planned natural gas vehicles purchases.
5	47	14,000	14,367	367	Immaterial variance.
6	4A	0	2,420	2,420	New MWC in 2012 for Gas Distribution Control Center.
7	50	59,207	70,622	11,415	Increase due to volume of leak repairs being capitalized (replaced rather than repaired).
8	51	53,999	44,390	(9,610)	Decrease due to scope changes and project delays related to gas work at the request of others, as well as budget reprioritization to improve system safety and reliability.
9	52	1,000	410	(590)	Decrease driven by lower than forecasted capital emergency response repairs.
10	05	269	1,872	1,604	Increase driven by additional capital tool purchases to support leak surveys and leak repairs on valves.
11	2K	42,000	60,124	18,124	Increase due to higher than planned unit costs for estimating and construction due to significant pre-work required, as well as increased installations of new distribution regulator stations and mains.
12	2J	3,500	320	(3,180)	Decrease due to lower level of work than originally forecast.
13	74	2,620	2,581	(39)	Immaterial variance.
14	Total	\$385,643	\$400,757	\$15,114	

2-11

SECTION 3
Electric Distribution
Detailed Variance Explanations

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
ELECTRIC DISTRIBUTION EXPENSE AND CAPITAL INFORMATION**

**TABLE 3-1
ELECTRIC DISTRIBUTION 2012 EXPENSE COMPARISON SUMMARY
(IN THOUSANDS OF 2012 DOLLARS)**

Line No.	MWC Description	MWC	2012 Budget	2012 Actual	2012 Difference Higher/(Lower)	2013 Budget
1	Support	AB (1)	\$5,268	\$5,650	\$381	\$1,996
2	Patrols and Inspections	BF	39,075	53,431	14,356	46,410
3	Maintenance of Other Equipment	BK	2,645	2,049	(596)	2,880
4	Poles-Inventory/Test and Treat	GA	17,184	13,964	(3,220)	16,200
5	Tree Trimming Balancing Account	HN	161,500	161,460	(40)	161,500
6	New Customer Connection Service Inquiry Activities	EV	7,300	6,839	(461)	7,800
7	Work Requested by Others (WRO)	EW	10,200	14,330	4,130	12,000
8	Operate and Maintain Substations	GC	38,772	38,971	199	38,072
9	Distribution Automation and Protection Support	HX	2,721	3,175	454	2,678
10	Operate Electric Distribution	BA	35,636	33,400	(2,236)	35,550
11	Electric Distribution Operations Technology	HG	785	769	(16)	0
12	Perform Field Services	DD (2)	19,322	21,628	2,305	22,060
13	Corrective Maintenance	BH	71,524	87,128	15,604	73,852
14	Major Emergency	IF	50,196	36,363	(13,833)	46,222
15	Electric Engineering and Planning	FZ	23,077	21,592	(1,484)	22,080
16	Operations Distribution - Electric Mapping	GE	4,744	4,302	(442)	5,511
17	Electric Research, Development and Demonstration	AT	0	0	0	0
18	Provide Utility Performance Improvement Services	KT	0	0	0	0
19	Preventive Maintenance and Equipment Repair, Overhead	KA	50,926	51,054	129	52,947
20	Preventive Maintenance and Equipment Repair, Underground	KB	24,030	23,570	(460)	28,046
21	Preventive Maintenance and Equipment Repair, Network	KC	6,582	7,165	582	6,042
22	Total		\$571,488	\$586,842	\$15,355	\$581,845

Notes:

- 1 MWC AB is reduced by \$1.0M from its previously reported 2012 budget of \$6.3M due to transfer of technical training work to the Human Resources department.
- 2 MWC DD is a new MWC in Electric Distribution. A portion of MWC DD was split from Customer Care to Gas and Electric Distribution. The amount above reflects the portion of the recorded and budgeted expense that is being managed by the Electric Distribution organization.

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
ELECTRIC DISTRIBUTION EXPENSE AND CAPITAL INFORMATION**

**TABLE 3-2
ELECTRIC DISTRIBUTION 2012 CAPITAL COMPARISON SUMMARY
(IN THOUSANDS OF 2012 DOLLARS)**

Line No.	MWC Description	MWC	2012 Budget	2012 Actual	2012 Difference Higher/(Lower)	2013 Budget
1	Electric Distribution Line and Equipment Capacity	06	\$83,636	\$88,612	\$4,976	\$85,940
2	Pole Replacement	07	154,506	119,816	(34,690)	150,945
3	Base Reliability Program	08	21,565	19,054	(2,511)	24,500
4	Electric Distribution Automation and Protection	09	37,185	37,548	363	46,006
5	Electric Work at the Request of Others	10	69,700	108,758	39,058	81,000
6	Electric Distribution Customer Connections	16	210,000	235,607	25,607	265,000
7	Electric Distribution Emergency Response	17	118,800	135,814	17,015	118,809
8	Electric Distribution Work at the Request by Others - Rule 20A	30	61,799	52,426	(9,373)	86,000
9	Electric Distribution Substation Capacity	46	58,330	51,336	(6,994)	49,937
10	Electric Distribution Replace Substation Equipment	48 ⁽¹⁾	56,846	48,994	(7,852)	65,335
11	Targeted Reliability Program	49	60,000	61,911	1,911	56,000
12	Electric Distribution Substation Transformer Replacements	54 ⁽¹⁾	71,170	67,189	(3,981)	50,278
13	Electric Distribution Cable Replacement	56	74,200	73,495	(705)	60,100
14	Electric Distribution Substation Safety and Environmental	58	875	148	(727)	1,741
15	Electric Distribution Substation Emergency Replacement	59 ⁽¹⁾	12,056	26,632	14,575	18,174
16	Electric Distribution Major Emergency	95	65,383	35,972	(29,411)	55,203
17	Tools and Equipment	05	(374)	(2,377)	(2,003)	61
18	Electric Technology	63	8,000	2,815	(5,185)	34,000
19	Electric Distribution Preventive Maintenance, Overhead	2A	90,159	91,682	1,523	96,185
20	Electric Distribution Preventive Maintenance, Underground	2B	27,877	49,075	21,198	34,922
21	Electric Distribution Preventive Maintenance, Network	2C	19,577	17,336	(2,241)	17,360
22	Total		\$1,301,290	\$1,321,843	\$20,553	\$1,397,495

Notes:

1 MWCs 48, 54, and 59 have internal budget realignment within Electric Distribution with no net impact to the total 2012 budget previously reported.

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
ELECTRIC DISTRIBUTION EXPENSE AND CAPITAL INFORMATION**

MWC Descriptions – Expense

MWC AB – Support – includes general support of the electric distribution system, including performance improvement initiatives, as well as a number of smaller projects such as the CPUC-commissioned Electric Magnetic Fields program. In addition, MWC AB captures standard cost variance of multiple electric distribution workgroups in Electric Operations.¹

MWC BF – Patrols and Inspections – includes patrol and inspections of overhead (OH) and underground (UG) facilities, including infrared inspections; inspection and testing of OH and UG line equipment; special patrols; and other work associated with electric distribution system maintenance such as the cost of implementing mobile technology.

MWC BK – Maintenance of Other Equipment – includes repair of specialized equipment, such as transformers, voltage regulators, circuit reclosers, capacitor banks and line switches, as well as equipment repair activities at the Emeryville repair facility.

3-3

MWC GA – Poles-Inventory/Test and Treat – includes activities to assess the condition of the lower half of poles and preserve the poles' wood strength. Based on results of pole test activities, where the pole condition warrants reinforcement, the pole is restored to its original strength, extending the pole's serviceable life. This program also includes coordination of billing joint owners and tenants for their share of costs for work performed on jointly owned or leased facilities.

MWC HN – Tree Trimming Balancing Account – includes the cost to patrol, inspect and maintain clearance for approximately five million trees along approximately 113,500 miles of OH high voltage distribution lines. The program covers routine tree trimming and removal, vegetation control, contractor quality control, environmental compliance and public education.

MWC EV – New Customer Connection Service Inquiry Activities – includes processing customer requests related to new business or increased connection capacity (added load) on existing services.

¹ Standard Cost Variance (SCV) is described in the Gas Distribution expense Section 2 of this report.

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
ELECTRIC DISTRIBUTION EXPENSE AND CAPITAL INFORMATION**

MWC EW – Work Requested by Others (WRO) – Maintenance – encompasses work required by tariff, third-party requests and franchise compliance, including:

- Relocations: Non-plant related relocations of electric facilities; Land Department right-of-way record research requested by third parties that are not project specific; and local division office WRO service inquiries not requiring Land Department involvement. (WRO related to gas service has moved to MWC LK in gas distribution.)
- Generation Interconnection Services (GIS): Managing the electric interconnection process for CPUC and Federal Energy Regulatory Commission jurisdictional customer generation projects connected at distribution service level from receipt of the interconnection inquiry through the in-service date of the new generation facility and continuing through billing, settlements and refunds.
- Pre-Parallel Inspections: On-site inspections of distribution voltage interconnections that are funded via Electric Tariff Rule 21. Pre-parallel inspections are performed to ensure safe and reliable operation of customer-owned generators paralleled with PG&E's grid.

3-4

MWC GC – Operate and Maintain Substations – includes operations, preventive maintenance and corrective maintenance within distribution substations.

- Operations in a substation include: substation facility and equipment inspections; switching; activities associated with providing safe working conditions for employees; restoring service to customers; calibrating and adjusting substation equipment; testing; and maintaining station logs.
- Preventive maintenance includes: diagnostic testing; overhauls; washing insulators; application of room temperature vulcanized rubber coating to reduce the need to complete periodic insulator washing; yard repairs; refurbishing emergency and surplus equipment; and animal abatement.
- Corrective maintenance includes: repair of failed equipment; mobile substation and mobile transformer installation costs; and relocation of emergency and surplus equipment.

MWC HX – Distribution Automation and Protection Support – includes engineering support for the maintenance and operation of automation and protection equipment and the Enhanced Outage Notification subprogram.

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
ELECTRIC DISTRIBUTION EXPENSE AND CAPITAL INFORMATION**

MWC BA – Operate Electric Distribution – includes distribution control center and field operations, including work performed by distribution system operators, troublemen, electricians and electric crews. This work includes operating switches to transfer load between circuits, isolating customers or de-energizing sections of line during construction or maintenance, and reconfiguring circuits to mitigate problem situations.

MWC HG – Electric Distribution Operations Technology – covers technical support for Electric Distribution Operations, including operational and development support for various control center and emergency preparedness applications and tools (e.g., the Outage Information System, the Outage Management Tool, the Distribution Operator Dashboard and the Integrated Logging Information System).

MWC BH – Corrective Maintenance – includes response to OH or UG outages that occur during normal conditions including routine emergency response work as well as work issued using PG&E’s Field Automation System (FAS) for either emergency response or system reliability.

3-5

MWC IF – Major Emergency – includes response to OH or UG outages when a division Operations Emergency Center (OEC) has been activated, indicating emergency conditions at Level 2 or above. (Level 2-4 emergencies are major emergencies that are either division or area-wide (or high profile) and require construction and/or other resources from outside the impacted area.)

MWC FZ – Electric Engineering and Planning – supports many programs that require engineering and planning services, including the Electric Distribution Capacity, Electric Distribution Reliability, and Underground Asset Management programs. This program also supports: investigating secondary voltage complaints that troublemen cannot resolve on the first visit; and operational field work that electric planning personnel initiate, such as phase balancing and replacing fuses that are projected to be overloaded.

MWC GE – Operations Distribution – Electric Mapping – includes creating new maps, recording updates and maintaining the electric distribution system maps.

MWC AT – Electric Research, Development and Demonstration – includes efforts to increase the operating life and improve the operating efficiency and safety of PG&E’s electric distribution system, and reduce costs by developing, demonstrating, and/or evaluating new or improved technologies and operating concepts.

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
ELECTRIC DISTRIBUTION EXPENSE AND CAPITAL INFORMATION**

MWC KT – Provide Utility Performance Improvement Services – encompasses overhead charges from the Utility Performance Improvement group for facilitating various process improvement programs and specific projects.

MWC KA – Preventive Maintenance and Equipment Repair, Overhead – includes repair of OH facilities; repair of OH Critical Operating Equipment (COE); repair of streetlights and group streetlight replacements; refurbish and overhaul of specific types of OH distribution line equipment; repair of OH facilities to address migratory bird requirements; investigate and respond to radio television interference (RTVI) inquiries; wash insulators; and other OH maintenance work.

MWC KB – Preventive Maintenance and Equipment Repair, Underground – includes repair of UG facilities; repair of UG COE; refurbishment and overhaul of specific types of UG distribution line equipment; and other UG line maintenance work.

MWC KC – Preventive Maintenance and Equipment Repair, Network – includes repair of network facilities; repair of network COE; repair of network equipment and overhaul of network protectors; and other network maintenance work.

New MWC Description – Expense

MWC DD – Perform Field Services – covers Electric Distribution’s portion of customer-generated field service activities, specifically start/stop service requests, emergency response and other customer-generated electric field service requests.

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
ELECTRIC DISTRIBUTION EXPENSE AND CAPITAL INFORMATION**

**TABLE 3-3
ELECTRIC DISTRIBUTION 2012 EXPENSE COMPARISON
(IN THOUSANDS OF 2012 DOLLARS)**

3-7

Line No.	MWC	2012 Budget	2012 Actual	2012 Difference Higher/(Lower)	Explanation
1	AB	\$5,268	\$5,650	\$381	Immaterial variance.
2	BF	39,075	53,431	14,356	Increase due to higher unit cost to perform additional minor tasks on jobs to improve overall efficiency (e.g., repairing damaged wires and conductors that were not part of the original job), extra work for backlog validations, and additional inspections due to increased CPUC requested circuit reviews.
3	BK	2,645	2,049	(596)	Decrease due to less maintenance rebuild work being done on regulators, reclosers and transformers due to scrapping more unrepairable equipment than planned.
4	GA	17,184	13,964	(3,220)	Decrease due to a reduction of pole test and treat units to fund increases in spend in the Work at the Request of Others (WRO) (MWC EW), routine emergency (MWC BH), and Patrol and Inspection (MWC BF) work categories. Overall, pole test and treat progress is still on target for the 10-year review cycle.
5	HN	161,500	161,460	(40)	Immaterial variance.
6	EV	7,300	6,839	(461)	Immaterial variance.
7	EW	10,200	14,330	4,130	Increase due to (1) a change in the supervision and management cost allocation method in which the costs were previously allocated to other MWCs and (2) an unplanned purchase of a Generation Interconnection Services tool to improve process controls to track and monitor all compliance timelines and notification requirements.
8	GC	38,772	38,971	199	Immaterial variance.
9	HX	2,721	3,175	454	Increase due to work done related to Supervisory Control and Data Acquisition (SCADA) equipment that was budgeted in IT.
10	BA	35,636	33,400	(2,236)	Decrease due to fewer intercompany meter charges (internal power usage) than planned.
11	HG	785	769	(16)	Immaterial variance.
12	DD	19,322	21,628	2,305	Increase due to higher customer-requested partial outage restoration activities than planned.

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
ELECTRIC DISTRIBUTION EXPENSE AND CAPITAL INFORMATION**

**TABLE 3-3
ELECTRIC DISTRIBUTION 2012 EXPENSE COMPARISON
(IN THOUSANDS OF 2012 DOLLARS) (CONTINUED)**

Line No.	MWC	2012 Budget	2012 Actual	2012 Difference Higher/(Lower)	Explanation
13	BH	71,524	87,128	15,604	Increase due to higher work volumes than historical levels for routine outages and a revised outage response approach which resulted in more costs captured in routine emergency (MWC BH) rather than major emergency (MWC IF).
14	IF	50,196	36,363	(13,833)	Decrease due to lower than historical level of major storm activity and a revised outage response approach which resulted in more costs captured in routine emergency (MWC BH) rather than major emergency (MWC IF).
15	FZ	23,077	21,592	(1,484)	Decrease due to delays in the hiring of Power Quality engineers.
16	GE	4,744	4,302	(442)	Immaterial variance.
17	AT	0	0	0	No variance.
18	KT	0	0	0	No variance.
19	KA	50,926	51,054	129	Immaterial variance.
20	KB	24,030	23,570	(460)	Immaterial variance.
21	KC	6,582	7,165	582	Immaterial variance.
22	Total	\$571,488	\$586,842	\$15,355	

3-8

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
ELECTRIC DISTRIBUTION EXPENSE AND CAPITAL INFORMATION**

MWC Descriptions – Capital

MWC 06 – Electric Distribution Line and Equipment Capacity – includes capacity expansion work outside a substation necessary to correct specific capacity deficiencies or overload conditions on the distribution lines and equipment and includes replacing/upgrading conductors and devices along with installing capacitors, switches or other equipment; establishing new circuit outlets; converting circuit line sections to a higher operating voltage; and reconfiguring primary distribution circuits to redistribute loading.

MWC 07 – Pole Replacement – includes the replacement of poles, 99 percent of which are wood, to support safety and reliability of the electric distribution system.

MWC 08 – Base Reliability Program – includes installing fused cutouts, reclosers, sectionalizers, switches, fault indicators, fused switches and interrupters; rebuilding and reframing OH distribution lines (including the installation of tree-insulated wire); and performing other reliability and system protection improvement work such as replacing annealed OH conductors. Base reliability work is intended to maintain the current level of electric distribution system reliability.

MWC 09 – Electric Distribution Automation and Protection – covers investments in field automation and protection devices including installing or replacing substation Remote Terminal Units; installing or replacing supervisory control and data acquisition (SCADA) peripherals; installing or replacing automated line equipment; replacing obsolete protection equipment, primarily relays, in distribution substations; replacing automation or protection equipment due to unanticipated failure; and implementing a new Fire Risk Management (FRM) initiative that will allow remote operation of reclose relays on certain circuit breakers and line reclosers to reduce the likelihood of wildland and urban fires.

MWC 10 – Electric Work at the Request of Others (WRO) – includes relocating electric distribution facilities at the request of a governmental agency or other third parties (e.g., customers and developers) and conversion of OH electric facilities to UG under Tariff Rule 20B and Rule 20C.

MWC 16 – Electric Distribution Customer Connections – includes building new UG and OH primary distribution systems, and the associated secondary systems and services to both residential and non-residential customers.

MWC 17 – Electric Distribution Emergency Response – includes facility replacements in response to OH or UG outages during normal conditions.

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
ELECTRIC DISTRIBUTION EXPENSE AND CAPITAL INFORMATION**

MWC 30 – Electric Distribution Work Requested by Others – Rule 20A – includes the undergrounding of existing OH electric distribution facilities. Rule 20A provides that utilities will jointly convert existing OH electric distribution, telecommunication, and other OH facilities to UG when a specified project has been determined to be in the general public interest.

MWC 46 – Electric Distribution Substation Capacity – includes capacity work within substations including new substations, increased capacity at existing substations, and work on feeders/breakers within a substation.

MWC 48 – Electric Distribution Replace Substation Equipment – includes all major and minor substation equipment replacements not included in MWC 54 (Transformer Program). Specific sub-programs include:

- Ancillary Substation Equipment Replacement
- Ohio Brass Insulator Replacement
- Ground Grid Replacement
- Circuit Breaker Replacement Program
- Switch Replacement
- Battery Replacement
- Civil Structure Replacements
- Switchgear Replacement
- Regulator Replacement
- Yard Improvement Replacement
- Diagnostic Installation Program
- Arc Flash Reduction Replacement

MWC 49 – Targeted Reliability Program – includes OH fuses; UG protective devices; new line reclosers and converting existing reclosers from manual to remote operation (i.e., making them SCADA operable); fault indicators; and expenditures to resolve high-impact reliability issues. This program also includes the targeted circuit initiative which addresses the least reliable circuits and typically involves a mixture of installing new fuses, reclosers, fault indicators and animal and bird guards, reframing poles to increase phase separation, repairing or replacing existing equipment, and completing previously identified maintenance tags.

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
ELECTRIC DISTRIBUTION EXPENSE AND CAPITAL INFORMATION**

MWC 54 – Electric Distribution Substation Transformer Replacements – includes maintaining or improving substation reliability by replacing transformers that have the highest risk of failure. This MWC also includes maintaining an adequate supply of emergency transformer stock, mobile transformers, and breakers for emergency response.

MWC 56 – Electric Distribution Cable Replacement – includes the non-emergency related replacement of primary distribution cable.

MWC 58 – Electric Distribution Substation Safety and Environmental – encompasses miscellaneous, unforeseen, short lead-time and emergency environmental work (e.g., removal of an old asbestos panel in a control room that requires special handling).

MWC 59 – Electric Distribution Substation Emergency Replacement – includes replacements for substation equipment that fails or is forced out of service as well as an emergency supply of transformers and other equipment to replace failed equipment.

MWC 95 – Electric Distribution Major Emergency – includes facility replacements performed during emergency conditions at Level 2 or above when a division Operations Emergency Center (OEC) has been activated.

MWC 05 – Tools and Equipment – includes the costs of miscellaneous tools and equipment, and of overdrawn materials. Regular expenditures are necessary to replace damaged, worn out, or obsolete tools and to ensure specialized tools are available to perform testing and other functions.

MWC 63 – Electric Technology – covers implementation of electric system management technology for centrally located system operators, including investments in system automation and protection and monitoring devices.

MWC 2A – Electric Distribution Preventive Maintenance, Overhead – includes replacing deteriorated OH facilities on a planned basis where it is not cost effective to repair those facilities. This work is similar to the work performed in MWC KA, but includes replacing equipment, rather than repair and maintenance. Typical equipment replacements include corroded transformers, deteriorated cross-arms, inoperative line switches, and other OH distribution facilities. Equipment is replaced in-kind in most cases; however, upgrades are required where the equipment must meet current operating conditions, technology, and safety standards.

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
ELECTRIC DISTRIBUTION EXPENSE AND CAPITAL INFORMATION**

MWC 2B – Electric Distribution Preventive Maintenance, Underground – includes replacing deteriorated UG facilities on a planned basis where it is not cost effective to repair those facilities. This work is similar to the work performed in MWC KB, but includes replacing equipment, rather than repair and maintenance. Typical equipment replacements include corroded transformers, inoperative switches, damaged UG enclosures and other UG distribution facilities. Equipment is replaced in-kind in most cases; however, upgrades are required where the equipment must meet current operating conditions, technology, and safety standards.

MWC 2C – Electric Distribution Preventive Maintenance, Network – includes replacing deteriorated network facilities on a planned basis where it is not cost effective to repair those facilities. This work is similar to the work performed in MWC KC, but includes replacing equipment, rather than repair and maintenance. Typical equipment replacements include corroded transformers, inoperative switches, and other network distribution facilities. Equipment is replaced in-kind in most cases; however, upgrades are required where the equipment must meet current operating conditions, technology, and safety standards.

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
ELECTRIC DISTRIBUTION EXPENSE AND CAPITAL INFORMATION**

**TABLE 3-4
ELECTRIC DISTRIBUTION 2012 CAPITAL COMPARISON
(IN THOUSANDS OF 2012 DOLLARS)**

Line No.	MWC	2012 Budget	2012 Actual	2012 Difference Higher/(Lower)	Explanation
1	06	\$83,636	\$88,612	\$4,976	Increase due to higher than budgeted material and contracting costs for new business related capacity projects; more work was completed than planned.
2	07	154,506	119,816	(34,690)	Decrease due to (1) reduction in pole replacements in 2012 due to acceleration of pole replacements in prior years or through other projects, (2) resource constraints due to support provided to Hurricane Sandy and year-end storms, and (3) fewer wood pole streetlights being replaced by metal pole streetlights due to delays in contracting and material.
3	08	21,565	19,054	(2,511)	Decrease due to lower than planned unit cost of overhead conductor replacement work.
4	09	37,185	37,548	363	Immaterial variance.
5	10	69,700	108,758	39,058	Increase in volume of third-party requested work.
6	16	210,000	235,607	25,607	Increase due to (1) increases in non residential unit completion and unit cost mainly for emergent agriculture pump installations as a result of drought conditions and (2) more transformers installed than forecasted.
7	17	118,800	135,814	17,015	Increase due to higher work volumes over historical levels for routine outage and a revised outage response process change, which resulted in more costs captured in routine emergency (MWC 17) rather than major emergency (MWC 95)
8	30	61,799	52,426	(9,373)	Decrease due to crews being diverted for Hurricane Sandy support and December storm activity; major project delays in (1) the Highway 29 Napa County and (2) the San Leandro projects; and reductions to fund higher priority work within Electric Operations.
9	46	58,330	51,336	(6,994)	Decrease due to rescheduling several large projects to 2013 to fund large increases in new business and Work at the Request of Others (WRO) (MWC 10).
10	48	56,846	48,994	(7,852)	Decrease due to rescheduling several large substation projects (including Oakland X, Oakland D, Berkeley, and El Cerrito) to 2013 to fund large increases in new business and WRO (MWC 10).
11	49	60,000	61,911	1,911	Increase due to additional work around Candlestick Park as a result of the Monday Night Football outage, system upgrades prior to 2012 playoff games, and additional work in Central Coast areas surrounding Pebble Beach, Stockton and Yosemite divisions.
12	54	71,170	67,189	(3,981)	Decrease due to Oakland and Fort Bragg projects rescheduled to 2013 to fund large increases in new business and WRO (MWC 10).

3-13

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
ELECTRIC DISTRIBUTION EXPENSE AND CAPITAL INFORMATION**

**TABLE 3-4
ELECTRIC DISTRIBUTION 2012 CAPITAL COMPARISON
(IN THOUSANDS OF 2012 DOLLARS) (CONTINUED)**

Line No.	MWC	2012 Budget	2012 Actual	2012 Difference Higher/(Lower)	Explanation
13	56	74,200	73,495	(705)	Immaterial variance.
14	58	875	148	(727)	Decrease to fund higher priority emergency work in substation (MWC 59).
15	59	12,056	26,632	14,575	Increase due to higher than planned substation emergency replacements in breakers and transformers.
16	95	65,383	35,972	(29,411)	Decrease due to lower than historical level of major storm activities and a revised outage response approach which resulted in more costs captured in routine emergency (MWC 17) rather than major emergency (MWC 95).
17	05	(374)	(2,377)	(2,003)	Decrease due to higher volume of overdrawn materials returned to inventory.
18	63	8,000	2,815	(5,185)	Decrease due to a land purchase for the southern regional consolidated distribution control center that was budgeted but ultimately not needed.
19	2A	90,159	91,682	1,523	Increase due to acceleration of 2013 maintenance tags to 2012.
20	2B	27,877	49,075	21,198	Increase due to higher than planned volume and unit cost in underground facilities.
21	2C	19,577	17,336	(2,241)	Decrease due to transfer to IT of the software related costs of the Condition Based Maintenance projects that were budgeted in Electric Distribution.
22	Total	\$1,301,290	\$1,321,843	\$20,553	

3-14

SECTION 4
Customer Care
Detailed Variance Explanations

**PACIFIC GAS AND ELECTRIC COMPANY
2012 GENERAL RATE CASE APPLICATION 09-12-020
CUSTOMER CARE 2012 EXPENSE AND CAPITAL INFORMATION**

**TABLE 4-1
CUSTOMER CARE 2012 EXPENSE COMPARISON SUMMARY
(IN THOUSANDS OF 2012 DOLLARS)**

Line No.	MWC Description	MWC	2012		Difference Higher/(Lower)	2013 Budget
			Budget	Actual		
1	Manage Customer Inquiries	DK	\$115,343	\$117,551	\$2,208	\$112,945
2	Manage Various Customer Care Processes	EZ (3)	36,851	36,039	(812)	35,611
3	Perform Field Services	DD (1)	11,771	10,434	(1,338)	20,812
4	Perform Electric Meter Maintenance	EY	25,557	23,419	(2,138)	32,695
5	Perform Gas Meter Maintenance	HY	10,711	13,120	2,409	11,176
6	Retain and Grow Customers	FK (3)	1,996	972	(1,024)	900
7	Manage Energy Efficiency (Non-Balancing Account)	GM (4)	3,726	2,953	(773)	4,287
8	Develop New Revenue	EL (2)	7,345	11,650	4,306	6,860
9	Process Customer Bills	IS (5)	77,402	71,697	(5,704)	80,375
10	Manage Credit	IT (5)	30,103	31,860	1,757	26,324
11	Collect Revenue	IU	31,759	33,613	1,854	34,465
12	Provide Account Services	IV (3)	13,137	11,915	(1,221)	15,059
13	Total		\$365,701	\$365,224	(\$477)	\$381,508

Notes:

- 1 MWC DD is reduced by \$101.7M from its previously reported 2012 budget of \$113.4M due to reorganization of work and personnel to Gas and Electric Operations.
- 2 MWC EL is reduced by \$0.6M from its previously reported 2012 budget of \$7.9M due to an allocation correction between GRC-funded and Electric Transmission funded work.
- 3 MWCs FK, IV, and EZ realigned within Customer Care with no net impact to the previously reported 2012 budget.
- 4 MWC GM is reduced by \$3.0M from its previously reported 2012 budget of \$6.7M due to reorganization of natural gas vehicle station maintenance to Gas Operations.
- 5 MWCs IS and IT had misaligned SmartMeter benefits that have been corrected with no net impact to previously reported 2012 budget.

**PACIFIC GAS AND ELECTRIC COMPANY
2012 GENERAL RATE CASE APPLICATION 09-12-020
CUSTOMER CARE 2012 EXPENSE AND CAPITAL INFORMATION**

**TABLE 4-2
CUSTOMER CARE 2012 CAPITAL COMPARISON SUMMARY
(IN THOUSANDS OF 2012 DOLLARS)**

Line No.	MWC Description	MWC	2012 Budget	2012 Actual	2012 Difference Higher/(Lower)	2013 Budget
1	IT Desktop Computers	01	\$1,056	\$549	(\$507)	\$2,250
2	CFS Tools Capital	05 (1)	1,199	1,253	54	3,619
3	Office Equipment	21 (2)	826	158	(668)	2,551
4	Electric Metering Capital	25	40,204	43,914	3,710	43,666
5	EV Station Infrastructure	28	1,006	44	(962)	0
6	Gas Metering Capital	74 (3)	85,269	59,399	(25,870)	86,814
7	Total		\$129,560	\$105,317	(\$24,243)	\$138,900

Notes:

- 1 MWC 05 is increased by \$0.2M from its previously reported 2012 budget of \$1.0M due to budget transfer from Shared Services for Fremont Meter Plant activities.
- 2 MWC 21 is reduced by \$1.5M from its previously reported 2012 budget of \$2.3M due to budget transfer to IT for Contact Center Refresh work.
- 3 MWC 74 is reduced by \$2.6M from its previously reported 2012 budget of \$87.9M due to budget transfer to Gas Operations for regulator replacement work performed by Gas Service Reps.
- 4 MWC 31 work and 2012 budget of \$2.8M has entirely transferred to Gas Operations. This is for natural gas vehicles fueling stations.

**PACIFIC GAS AND ELECTRIC COMPANY
2012 GENERAL RATE CASE APPLICATION 09-12-020
CUSTOMER CARE 2012 EXPENSE AND CAPITAL INFORMATION**

MWC Descriptions – Expense

MWC DK – Manage Customer Inquiries – includes expenses incurred in operating the Company’s five Contact Centers which process approximately 18 million calls per year, with approximately 9 million of these handled by a customer service representative; costs associated with PG&E’s Customer Relations department; and expenses to manage and resolve over 1.5 million customer payment and/or information inquiries for most payment channels (except local office, KIOSK and iPhone), customer correspondence, and literature requests.

MWC EZ – Manage Various Customer Care Processes – covers customer satisfaction surveys; customer service; policy implementation; program outreach; correspondence management and literature fulfillment, billing, meter data collection associated with load research activities, tariff support and various non-cash receiving front counter activities.

MWC DD – Perform Field Services – covers Customer Care’s portion of customer-generated field service activities, specifically electric start/stop service requests and other customer-generated field services requests.

MWC EY – Perform Electric Meter Maintenance – covers all electric meter maintenance activities that do not result in new meter exchanges, including electric meter tests, meter communication trouble-shooting, and meter repairs.

MWC HY – Perform Gas Meter Maintenance – covers all gas meter maintenance activities that do not result in new meter exchanges, including meter tests, minimal regulator maintenance, meter/module communication trouble-shooting, and meter/module repairs.

MWC FK – Retain and Grow Customers – covers responding to economic development inquiries; providing detailed analyses of service options desired by customers; and providing detailed explanations of special rate components. (MWC FK also includes “below the line” activities related to public power and Community Choice Aggregation issues the costs for which are not included in this report.)

MWC GM – Manage Energy Efficiency (Non-Balancing Account) – covers required safety and compliance work associated with Low Income Energy Efficiency direct installation measures, including Natural Gas Appliance Testing (NGAT) tests which measure levels of carbon monoxide after weatherization of homes of low-income customers. This MWC also covers support required for Clean Air Transportation and for minimal market readiness activities for electric vehicles.

**PACIFIC GAS AND ELECTRIC COMPANY
2012 GENERAL RATE CASE APPLICATION 09-12-020
CUSTOMER CARE 2012 EXPENSE AND CAPITAL INFORMATION**

MWC EL – Develop New Revenue – covers work in support of the New Revenue Development team on streetlights, wireless telecomm and fiber optics attachments on PG&E assets, and various other services based on secondary use of PG&E assets.

MWC IS – Process Customer Bills – includes expenses incurred to print, insert and mail over 54 million customer bills; bill high revenue commercial and industrial customers including the growing number of Net Energy Metering accounts; calculate and remit franchise fees, taxes and customer refunds; perform user acceptance testing of the Customer Billing system to ensure billing accuracy; and verify and/or resolve issues associated with the transition to SmartMeter™ devices.

MWC IT – Manage Credit – covers expenses incurred to perform credit risk management for retail customers; delinquent account follow up and post account closure collections; open account collections on high dollar accounts; balance transfers for closed accounts; and fraud verification. MWC IT also includes external collection agency costs.

MWC IU – Collect Revenue – covers expenses incurred to process energy payments received through the US mail and vendor transaction fees for on-line energy payments. MW IU also includes managing cash refunds; investigating and settling all customer energy theft allegations; and discontinuing service for metered commodity usage with no customer service agreement (broken lock).

MWC IV – Provide Account Services – covers the cost of labor, materials and other expenses incurred in responding to customer inquiries, primarily for non-residential customers, regarding contracts, credit, billing and accounting, collections and complaints, providing reliability and outage information, coordinating planned outages, providing retail interconnection information, and responding to customer needs of Energy Service Providers (ESP) and Core Transport Agents (CTA).

**PACIFIC GAS AND ELECTRIC COMPANY
2012 GENERAL RATE CASE APPLICATION 09-12-020
CUSTOMER CARE 2012 EXPENSE AND CAPITAL INFORMATION**

**TABLE 4-3
CUSTOMER CARE 2012 EXPENSE COMPARISON
(IN THOUSANDS OF 2012 DOLLARS)**

Line No.	MWC	2012 Budget	2012 Actual	2012 Difference Higher/(Lower)	Explanation
1	DK	\$115,343	\$117,551	\$2,208	Increase primarily due to additional Customer Advocacy work.
2	EZ	36,851	36,039	(812)	Immaterial variance.
3	DD	11,771	10,434	(1,338)	Decrease primarily due to lower than planned work in electric start/stop service.
4	EY	25,557	23,419	(2,138)	Decrease primarily due to improved productivity in electric metering corrective maintenance work and delays in hiring of incremental Electric Meter Tech Apprentices and Meter Maintenance Person employees.
5	HY	10,711	13,120	2,409	Increase due to higher than planned gas metering corrective maintenance work and higher than planned average job time to perform gas SmartMeter™ module corrective maintenance work.
6	FK	1,996	972	(1,024)	Decrease primarily due to lower than planned Economic Development work and shift of Distributed Generation work to MWC EZ.
7	GM	3,726	2,953	(773)	Decrease primarily due to delay in the Energy Savings Assistance Program Decision, thus reducing the volume of homes receiving installations and reducing the number of Natural Gas Appliance Testing (NGAT) tests completed. Decrease also due to a delay in approval of payments for Electric Vehicles (EV) and Clean Air Transportation (CAT) invoices at year end.
8	EL	7,345	11,650	4,306	Increase primarily due to higher than budgeted expenses for the Light Emitting Diode (LED) Turnkey program provided to cities, counties and lighting association customers.
9	IS	77,402	71,697	(5,704)	Decrease primarily due to postage for all mailings (bills, notices, letters) forecasted and budgeted in MWC IS, however, disconnection notice related postage being charged to MWC IT. The postage accounting misalignment has been corrected for the 2013 budget.
10	IT	30,103	31,860	1,757	Increase primarily due to postage costs related to credit risk management charged to MWC IT but budgeted in MWC IS, partially offset by fewer shut-off for non-payment work units than planned. The postage accounting misalignment has been corrected for the 2013 budget.
11	IU	31,759	33,613	1,854	Increase due to Revenue Assurance activities higher than planned.
12	IV	13,137	11,915	(1,221)	Decrease primarily due to hiring delays for Customer Account Services representatives.
13	Total	\$365,701	\$365,224	(\$477)	

4-5

**PACIFIC GAS AND ELECTRIC COMPANY
2012 GENERAL RATE CASE APPLICATION 09-12-020
CUSTOMER CARE 2012 EXPENSE AND CAPITAL INFORMATION**

MWC Descriptions – Capital

MWC 01 – IT Desktop Computers – includes costs associated with the purchase of mobile laptops used by field technicians to manage and record work activities.

MWC 05 – Tools and Equipment – includes tools and equipment used by field technicians and meter repair facilities to perform field metering and meter repair activities.

MWC 21 – Office Equipment – includes the purchase and installation of equipment related to mailing customer bills and processing payments through U.S. mail and electronic payment channels.

MWC 25 – Electric Metering Capital – includes SmartMeter™ network equipment, electric meters, and field technician labor to install/remove electric meters due to maintenance and new business growth activities.

MWC 28 – Electric Vehicle Station Infrastructure – covers capital investments in plug-in electric vehicle (PEV) charging stations.

MWC 74 – Gas Metering Capital – includes SmartMeter™ gas meters, gas modules, and field technician labor to install/remove gas meters and regulators due to maintenance and new business growth activities.

**PACIFIC GAS AND ELECTRIC COMPANY
2012 GENERAL RATE CASE APPLICATION 09-12-020
CUSTOMER CARE 2012 EXPENSE AND CAPITAL INFORMATION**

**TABLE 4-4
CUSTOMER CARE 2012 CAPITAL COMPARISON
(IN THOUSANDS OF 2012 DOLLARS)**

Line No.	MWC	2012 Budget	2012 Actual	2012 Difference Higher/(Lower)	Explanation
1	01	\$1,056	\$549	(\$507)	Decrease due to fewer IT equipment purchases than planned as a result of delays in onboarding Meter Maintenance Person and Electric Meter Tech Apprentice employees.
2	05	1,199	1,253	54	Immaterial variance
3	21	826	158	(668)	Decrease primarily due to a reduction in the number of payment kiosks for the Payment Channels project.
4	25	40,204	43,914	3,710	Increase due to higher than planned electric meter purchases for meter maintenance; as well as higher than budgeted electric meter installation work.
5	28	1,006	44	(962)	Decrease primarily due to PG&E electric vehicle infrastructure work transferred to Shared Services.
6	74	85,269	59,399	(25,870)	Decrease due to fewer gas meter purchases and scheduled gas meter changes than planned as a result of reduced resources available to do scheduled meter changes. The resources, Gas Service Reps, were needed to do higher priority gas emergency response work (described in Section 2 of this report).
7	Total	\$129,560	\$105,317	(\$24,243)	

4-7

SECTION 5
Nuclear Generation
Detailed Variance Explanations

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
NUCLEAR GENERATION EXPENSE AND CAPITAL INFORMATION**

**TABLE 5-1
NUCLEAR GENERATION 2012 EXPENSE PROGRAMS COMPARISON SUMMARY
(IN THOUSANDS OF 2012 DOLLARS)**

Line No.	MWC Description	MWC	2012 Budget	2012 Actual	2012 Difference Higher/(Lower)	2013 Budget
1	Manage Environmental Operations	AK	\$3,278	\$3,106	(\$172)	\$4,147
2	Manage DCPP Business	BP	13,661	12,854	(807)	9,641
3	DCPP Loss Prevention	BQ	41,485	39,421	(2,065)	41,390
4	Operate DCPP Plant	BR	95,213	92,575	(2,638)	90,616
5	Maintain DCPP Plant Assets	BS	113,440	135,149	21,709	133,741
6	Enhance DCPP Personnel Performance	BT	19,350	15,975	(3,375)	16,894
7	Maintain DCPP Plant Configuration	BV	50,143	48,812	(1,331)	54,124
8	Procure DCPP Materials & Services	BU	0	(8)	(8)	0
9	Total		\$336,570	\$347,884	\$11,314	\$350,553

5-1

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
NUCLEAR GENERATION EXPENSE AND CAPITAL INFORMATION**

**TABLE 5-2
NUCLEAR GENERATION 2012 CAPITAL PROGRAMS COMPARISON SUMMARY
(IN THOUSANDS OF 2012 DOLLARS)**

Line No.	MWC Description	MWC	2012 Budget	2012 Actual	2012 Difference Higher/(Lower)	2013 Budget
1	Office Furniture and Equipment	03	\$205	\$241	\$36	\$211
2	Fleet/Auto Equipment	04	1,018	820	(198)	502
3	Tools and Equipment	05	1,720	2,049	330	1,087
4	DCCP Capital Projects	20	257,658	260,538	2,880	203,400
5	Total		\$260,600	\$263,648	\$3,047	\$205,200

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
NUCLEAR GENERATION EXPENSE AND CAPITAL INFORMATION**

MWC Descriptions – Expense

MWC AK – Manage Environmental Operations – includes managing the environmental protection programs mandated by federal, state, and local regulations.

MWC BP – Manage DCCP Business – includes all activities associated with efforts to represent the Company and provide technical input to committees, owners groups, industry, professional and trade associations that support electric utilities. MWC BP also includes dues to the Institute of Nuclear Power Operators, Nuclear Energy Institute, Strategic Teaming and Resource Sharing, and Diablo Canyon Independent Safety Committee. MWC BP also includes aircraft services and land management activities.

MWC BQ – DCCP Loss Prevention – includes support for the management and implementation of the Security, Industrial Safety and Health, Emergency Preparedness and Fire Protection programs.

MWC BR – Operate DCCP Plant – includes all activities to operate the plant, radiation control, monitoring of plant chemistry, managing radioactive waste and hazardous waste generation, nuclear fuel movement, and reactor physics testing.

MWC BS – Maintain DCCP Plant Assets – includes all preventative and corrective maintenance activities for systems, structures, and components at the plant.

MWC BT – Enhance DCCP Personnel Performance – includes all training programs for license and non-license operator, maintenance, engineering, and all general employee training development and delivery.

MWC BV – Maintain DCCP Plant Configuration – includes support to provide design engineering, system engineering, component engineering, reactor engineering, in-service testing and inspection, reliability engineering, and fire protection engineering.

MWC BU – Procure DCCP Materials & Services – includes cost for under/over clearing of material burden.

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
NUCLEAR GENERATION EXPENSE AND CAPITAL INFORMATION**

**TABLE 5-3
NUCLEAR GENERATION 2012 EXPENSE COMPARISON
(IN THOUSANDS OF 2012 DOLLARS)**

Line No.	MWC	2012 Budget	2012 Actual*	2012 Difference Higher/(Lower)	Explanation
1	AK	\$3,278	\$3,106	(\$172)	Immaterial variance.
2	BP	13,661	12,854	(807)	Immaterial variance.
3	BQ	41,485	39,421	(2,065)	Decrease primarily due to lower security labor costs driven by lower overtime than planned and a shift to support regulatory required capital work.
4	BR	95,213	92,575	(2,638)	Decrease primarily due to lower operations labor costs driven by lower staffing and overtime. Additionally, lower costs for used fuel loading campaign due to process efficiencies and accelerated mobilization cost in prior year.
5	BS	113,440	135,149	21,709	Increase primarily due to higher maintenance costs to support the extended refueling outage, unplanned curtailments/outage, regulatory required projects (i.e., Cyber Security, EP rulemaking, Fukushima assessments) and other emergent work.
6	BT	19,350	15,975	(3,375)	Decrease primarily due to lower Nuclear Regulatory Commission license and inspection fees and a portion of Fukushima regulatory fees that were charged to Capital.
7	BV	50,143	48,812	(1,331)	Decrease primarily due to lower than planned engineering studies that were reprioritized to fund higher priority work within Nuclear Generation.
8	BU	0	(8)	(8)	Immaterial variance.
9	Total	\$336,570	\$347,884	\$11,314	

Notes:

* 2012 recorded adjustments made to align cost with budget on certain MWCs

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
NUCLEAR GENERATION EXPENSE AND CAPITAL INFORMATION**

MWC Descriptions – Capital

MWC 03 – Office Furniture and Equipment – includes capital costs to replace office furniture and equipment.

MWC 04 – Fleet/Auto Equipment – includes replacement of station fleet/auto equipment which has been in use longer than their useful life.

MWC 05 – Tools and Equipment – includes replacement of tools. Procurement of new tools assists workers to perform job responsibilities.

MWC 20 – DCPD Capital Projects – includes replacement of capital structures, systems and components that no longer can be maintained to safely and reliably operate and protect the plant. There are three major drivers to these replacements: (1) reliability has degraded to cause replacement to be needed; (2) obsolete replacement material, not allowing proper maintenance to continue; and (3) regulatory driven (NRC) requirements.

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
NUCLEAR GENERATION EXPENSE AND CAPITAL INFORMATION**

**TABLE 5-4
NUCLEAR GENERATION 2012 CAPITAL COMPARISON
(IN THOUSANDS OF 2012 DOLLARS)**

Line No.	MWC	2012 Budget	2012 Actual	2012 Difference Higher/(Lower)	Explanation
1	03	\$205	\$241	\$36	Immaterial variance.
2	04	1,018	820	(198)	Decrease is due to lower demand for vehicles.
3	05	1,720	2,049	330	Increase due to higher demand to replace tools that have reached the end of their useful lives.
4	20	257,658	260,538	2,880	Increase is primarily due to higher than planned costs related to regulatory required work for Security improvements and Fukushima upgrades.
5	Total	\$260,600	\$263,648	\$3,047	

SECTION 6
Power Generation
Detailed Variance Explanations

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
POWER GENERATION EXPENSE AND CAPITAL INFORMATION**

**TABLE 6-1
POWER GENERATION 2012 EXPENSE PROGRAMS SUMMARY COMPARISON
(IN THOUSANDS OF 2012 DOLLARS)**

Line No.	MWC Description	MWCs	2012 Budget	2012 Actual	2012 Difference Higher/(Lower)	2013 Budget
1	Business / Miscellaneous Expense (Hydro and Fossil)	AB	\$2,527	\$2,028	(\$498)	\$3,392
2	Manage Environmental Operations (Hydro and Fossil)	AK	4,652	4,052	(600)	4,501
3	Maintain Hydro Reservoirs, Dams & Waterways (Hydro)	AX	25,339	23,910	(1,429)	28,757
4	Habitat and Species Protection (Hydro)	AY	119	114	(5)	192
5	Perform Reimbursable Work for Others (Hydro)	BC	(247)	(492)	(246)	(205)
6	Implement Environment Projects (Hydro)	ES	196	409	214	525
7	Manage Property & Bldgs (Hydro)	EP (1)	708	1,402	694	1,080
8	Operate Hydro Generation (Hydro)	KG	41,682	42,233	551	52,192
9	Maintain Hydro Generating Equipment (Hydro)	KH	27,607	37,832	10,224	28,735
10	Maintain Hydro Buildings, Grounds & Infrastructure (Hydro)	KI	9,295	9,291	(4)	10,957
11	Regulatory Compliance Hydro Generation (Hydro)	KJ	35,592	35,179	(413)	36,737
12	Operate Fossil Generation (Fossil)	KK	13,180	13,529	348	13,917
13	Maintain Fossil Generating Equipment (Fossil)	KL	31,059	41,908	10,849	33,655
14	Maintain Fossil Generation Buildings, Grounds & Infrastructure (Fossil)	KM	2,405	2,665	260	2,720
15	Maintain Alternative Generation Generating Equipment (Fossil)	KR	82	92	10	87
16	Operate Alternative Gen (Fossil)	KQ	0	1	1	0
17	Total		\$194,196	\$214,153	\$19,957	\$217,242

Notes:

- MWC EP (Manage Property & Building (Hydro)) budget is now included in Power Generation to be consistent with the current management reporting structure. In the March 2012 Compliance report it was consolidated in Shared Services.

G-1

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
POWER GENERATION EXPENSE AND CAPITAL INFORMATION**

**TABLE 6-2
POWER GENERATION 2012 CAPITAL PROGRAMS SUMMARY COMPARISON
(IN THOUSANDS OF 2012 DOLLARS)**

Line No.	MWC Description	MWCs	2012 Budget	2012 Actual	2012 Difference Higher/(Lower)	2013 Budget
1	Tools & Equipment (Hydro and Fossil)	05	\$175	\$520	\$345	\$995
2	Relicensing Hydro Generation (Hydro)	11 (1)	26,426	34,237	7,812	33,495
3	Implement Environment Projects (Hydro)	12 (1)	7,105	11,385	4,280	6,198
4	Install / Replace for Hydro Gen Safety & Regulatory Requirements (Hydro)	2L (1)	111,829	100,383	(11,446)	62,764
5	Install / Replace Hydro Generating Equipment (Hydro)	2M (1)	79,028	83,130	4,102	89,283
6	Install / Replace Reservoirs, Dams & Waterways (Hydro)	2N (1)	30,852	51,005	20,153	58,175
7	Install / Replace Hydro Generation Buildings, Grounds & Infrastructure (Hydro)	2P (1)	3,353	4,692	1,339	7,209
8	Office Furniture & Equipment (Fossil)	03	0	12	12	20
9	Install / Replace Fossil Gen Safety & Regulatory Requirements (Fossil)	2R	505	394	(111)	824
10	Install / Replace Fossil Generating Equipment (Fossil)	2S	7,877	7,371	(506)	3,101
11	Install / Replace Fossil Generation Buildings, Grounds & Infrastructure (Fossil)	2T	150	126	(24)	350
12	Construct New Fossil Generation (Fossil)	2U	1,269	3,151	1,883	0
13	Install / Replace Alternative Generation Safety and Regulation (Fossil)	3A	0	0	0	5
14	Total		\$268,568	\$296,408	\$27,839	\$262,420

Notes:

- 1 MWCs 11, 12, 2L, 2M, 2N, and 2P have internal budget realignment within Power Generation that has no net impact to the total 2012 budget previously reported.

6-2

PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
POWER GENERATION EXPENSE AND CAPITAL INFORMATION

MWC Descriptions – Expense

MWC AB – Business / Miscellaneous Expense – includes costs associated with Land Conservation Commitment. MWC AB also captures Standard Cost Variance from multiple Power Generation workgroups.¹

MWC AK – Manage Environmental Operations – includes costs associated with managing environmental operations.

MWC AX – Maintain Hydro Reservoirs, Dams & Waterways – includes costs associated with maintenance of hydroelectric reservoirs, dams, and water conveyance systems. These maintenance activities also ensure safety through routine and preventive maintenance.

MWC AY – Habitat and Species Protection – includes costs and reimbursements associated with environmental risk management and sensitive species protection.

MWC BC – Perform Reimbursable Work for Others – includes costs associated with managing the irrigation district contracts and the reimbursable expenses incurred to perform maintenance on behalf of the irrigation districts.

MWC ES – Implement Environmental Projects – includes costs associated with the implementation of environmental projects and programs.

MWC EP – Manage Property & Buildings – includes costs associated with managing land rights and property leases in support of the operation of hydro power plants.

MWC KG – Operate Hydro Electric Generation – includes costs to operate hydroelectric power generating stations and associated facilities.

MWC KH – Maintain Hydro Electric Generating Equipment – includes costs to maintain generating equipment or components to support hydroelectric generation activities.

¹ Standard Cost Variance (SCV) is described in the Gas Distribution expense Section 2 of this report.

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
POWER GENERATION EXPENSE AND CAPITAL INFORMATION**

MWC KI – Maintain Hydro Electric Generation Buildings, Grounds & Infrastructure – includes costs to maintain buildings, grounds and infrastructure to support hydroelectric generation activities, including roads and bridges.

MWC KJ – Regulatory Compliance Hydro Electric Generation – includes costs to maintain Federal Energy Regulatory Commission (FERC) license compliance to support hydroelectric generation activities.

MWC KK – Operate Fossil Generation – includes costs to operate fossil power generating stations.

MWC KL – Maintain Fossil Generating Equipment – includes costs to maintain fossil power generating station equipment.

MWC KM – Maintain Fossil Generation Buildings, Grounds & Infrastructure – includes costs to maintain buildings, grounds and infrastructure on the plant site to support fossil generation activities, including buildings and facilities, roadways, landscaping, retaining walls, fencing, and yard lighting systems.

MWC KR – Maintain Alternative Generation Generating Equipment – includes costs to maintain alternative power generating station equipment.

MWC KQ – Operate Alternative Generation – includes costs to operate alternative generation sites.

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
POWER GENERATION EXPENSE AND CAPITAL INFORMATION**

**TABLE 6-3
POWER GENERATION 2012 EXPENSE COMPARISON
(IN THOUSANDS OF 2012 DOLLARS)**

Line No.	MWCs	2012 Budget	2012 Actual	Difference Higher / (Lower)	Explanation
1	AB	\$2,527	\$2,028	(\$498)	Decrease due to delayed filings with the CPUC on several fee and conservation easement transactions in 2012.
2	AK	4,652	4,052	(600)	Decrease due to rescheduling lower priority work to mitigate higher priority emergent work in Power Generation, such as the Helms Pumped Storage Facility emergency repairs.
3	AX	25,339	23,910	(1,429)	Decrease due to rescheduling lower priority work to mitigate higher priority emergent work in Power Generation, such as the Helms Pumped Storage Facility emergency repairs.
4	AY	119	114	(5)	Immaterial variance.
5	BC	(247)	(492)	(246)	Decrease due to higher than planned reimbursements from Irrigation Districts for higher volume of work.
6	ES	196	409	214	Increase due to unplanned oil spill clean up at Potter Valley Powerhouse.
7	EP	708	1,402	694	Increase due to one additional Full-Time Equivalent (FTE) in PG&E's Land & Environmental Management group and correction of historical charges that were previously being charged to Manage Recreation (MWC KJ) orders.
8	KG	41,682	42,233	551	Immaterial variance.
9	KH	27,607	37,832	10,224	Increase due to unplanned emergency work at Helms on the Unit 1 and Unit 3 Rotors and the Unit 1 Stator following inspections that detected potential for equipment failure.
10	KI	9,295	9,291	(4)	Immaterial variance.
11	KJ	35,592	35,179	(413)	Immaterial variance.
12	KK	13,180	13,529	348	Immaterial variance.
13	KL	31,059	41,908	10,849	Increase due to levelizing of the Fossil Long Term Service Agreements in the budget.
14	KM	2,405	2,665	260	Immaterial variance.
15	KR	82	92	10	Immaterial variance.
16	KQ	0	1	1	Immaterial variance.
17	Total	\$194,196	\$214,153	\$19,957	

6-5

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
POWER GENERATION EXPENSE AND CAPITAL INFORMATION**

MWC Descriptions – Capital

MWC 05 – Tools & Equipment – includes purchase of tools and equipment required to perform various functions to maintain the safety and reliability of fossil and hydro electric generation operations.

MWC 11 – Relicensing Hydro Electric Generation – includes costs for obtaining new FERC licenses; obtaining major license amendments; surrendering licenses for facilities that are no longer economic; complying with the conditions required by existing and newly issued FERC licenses and major license amendments; and anticipated to be required by pending new FERC licenses; and other compliance work generally related to facility safety.

MWC 12 – Implement Environmental Projects – includes costs for capital projects to comply with water and air quality regulations and various oil spill prevention projects.

MWC 2L – Install/Replace for Hydro Electric Generation Safety & Reg Requirements – includes capital costs primarily related to employee or public safety and regulatory requirements that are not connected with relicensing for hydroelectric generation.

MWC 2M – Install/Replace Hydro Electric Generating Equipment – includes capital costs to install/replace generating equipment or components to support hydroelectric generation activities.

MWC 2N – Install/Replace Reservoirs, Dams & Waterways – includes capital costs to support the operation of reservoirs, dams and waterways.

MWC 2P – Install/Replace Hydro Electric Generation Buildings, Grounds & Infrastructure – includes capital costs to install/replace buildings, grounds and infrastructure to support hydroelectric generation activities, including roads and bridges.

MWC 03 – Office Furniture & Equipment - includes capital costs to replace office furniture and equipment.

MWC 2R – Install/Replace Fossil Generating Safety & Regulatory Requirements – includes capital costs primarily related to employee safety or regulatory requirements for fossil generation.

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
POWER GENERATION EXPENSE AND CAPITAL INFORMATION**

MWC 2S – Install/Replace Fossil Generating Equipment – includes capital costs to install new or replace existing generating equipment or components to support fossil generation activities.

MWC 2T – Install/Replace Fossil Generation Buildings, Grounds & Infrastructure – includes capital costs to install or replace new buildings, grounds and infrastructure on the plant site to support fossil generation activities.

MWC 2U – Construct New Fossil Generation – includes capital costs to construct new fossil generation plants.

New MWC Description – Capital

MWC 3A – Install/Replace Alternative Fossil Generation Safety and Regulation – includes capital costs associated with the installation and/or replacement of safety equipment for alternative generation.

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
POWER GENERATION EXPENSE AND CAPITAL INFORMATION**

**TABLE 6-4
POWER GENERATION 2012 CAPITAL COMPARISON
(IN THOUSANDS OF 2012 DOLLARS)**

Line No.	MWCs	2012 Budget	2012 Actual	Difference Higher/(Lower)	Explanation
1	05	\$175	\$520	\$345	Increase primarily due to additional costs of arc flash safety equipment installation and GPS tools in the Central Hydro Area.
2	11	26,426	34,237	7,812	Increase due to higher Allowance for Funds Used During Construction (AFUDC) costs associated with delays in receiving FERC licenses and expanded scope of license conditions projects at Pit 3, 4 and 5 and the Spring Gap powerhouses.
3	12	7,105	11,385	4,280	Increase primarily due to safety requirement for a new hydraulic system on the low-level outlet at Pit 6 and 7 Dams and emergent upgrades needed to the Spaulding 2 turbines to prevent oil spill risk.
4	2L	111,829	100,383	(11,446)	Decrease primarily due to work rescheduled as a result of end of year 2012 storms in the Shasta Hydro Area, and lower than anticipated costs for the Crane Valley Dam Seismic Upgrades project.
5	2M	79,028	83,130	4,102	Increase due to expanded scope of work for the Rock Creek Unit 2 generator upgrades that required an emergent stator core restack.
6	2N	30,852	51,005	20,153	Increase due to expanded scope of canal replacement work on the Bear River Canal and Drum Canal systems, emergent work to stabilize flumes at the Krause II caused by landslide activity and slope stabilization work at Upper Miocene, and emergent dam safety upgrades installed at the McCloud Dam.
7	2P	3,353	4,692	1,339	Increase due to the emergent need to rebuild roads and reinforce powerhouse infrastructure in the Shasta Hydro Area as a result of end of year 2012 storm damage.
8	03	0	12	12	Immaterial variance.
9	2R	505	394	(111)	Decrease due to reduced costs of installation of safety equipment at Colusa and Humboldt Bay Generating Station.
10	2S	7,877	7,371	(506)	Immaterial variance.
11	2T	150	126	(24)	Decrease due to lower than planned costs for warehouse facility upgrades at Humboldt Bay Generating Station.
12	2U	1,269	3,151	1,883	Increase due to higher than planned Humboldt Bay Generating Station construction project completion costs. Total project costs were within the CPUC revised cost cap approved in the 2011 GRC.
13	Total	\$268,568	\$296,408	\$27,839	

6-8

SECTION 7
Energy Procurement
Detailed Variance Explanations

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
ENERGY PROCUREMENT 2012 EXPENSE AND CAPITAL INFORMATION**

**TABLE 7-1
ENERGY PROCUREMENT 2012 EXPENSE PROGRAMS SUMMARY COMPARISON
(IN THOUSANDS OF 2012 DOLLARS)**

Line No.	MWC Description	MWCs	2012 Budget	2012 Actual	2012 Difference Higher/(Lower)	2013 Budget
1	Support	AB	\$2,625	\$2,747	\$122	\$2,398
2	Acquire and Manage Electric Supply	CT (1)	44,009	42,293	(1,716)	46,262
3	Gas Procurement	CV	3,897	3,821	(76)	3,918
4	Total		\$50,532	\$48,862	(\$1,670)	\$52,578

Notes:

- 1 MWC CT is decreased by \$1.5M from its previously reported 2012 budget due to the reorganization of work to the Risk organization.

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
ENERGY PROCUREMENT 2012 EXPENSE AND CAPITAL INFORMATION**

MWC Descriptions – Expense

MWC AB – Support – represents the office of the Senior Vice President (SVP) of Energy Procurement, along with the administrative support functions for the Chief of Staff, business planning, budgeting, and financial and operational reporting.

MWC CT – Acquire and Manage Electric Supply – represents resources necessary for electric procurement operations for bundled electric supply, including electric generation related gas procurement. These functions include Energy Policy, Planning and Analysis, Energy Supply Management, Renewable Energy, Energy Contract Management and Settlements, and Energy Compliance and Reporting.

MWC CV – Gas Procurement – includes resources necessary for gas procurement operations to supply gas for PG&E core customers.

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
ENERGY PROCUREMENT 2012 EXPENSE AND CAPITAL INFORMATION**

**TABLE 7-2
ENERGY PROCUREMENT 2012 EXPENSE COMPARISON
(IN THOUSANDS OF 2012 DOLLARS)**

Line No.	MWC	2012 Budget	2012 Actual	2012 Difference Higher/(Lower)	Explanation
1	AB	\$2,625	\$2,747	\$122	Immaterial variance.
2	CT	44,009	42,293	(1,716)	Decrease primarily due to lower labor costs resulting from higher than anticipated employee turnover.
3	CV	3,897	3,821	(76)	Immaterial variance.
4	Total	<u>\$50,532</u>	<u>\$48,862</u>	<u>(\$1,670)</u>	

SECTION 8
Information Technology
Detailed Variance Explanations

**PACIFIC GAS AND ELECTRIC COMPANY
2012 GENERAL RATE CASE APPLICATION 09-12-020
INFORMATION TECHNOLOGY EXPENSE AND CAPITAL INFORMATION**

**TABLE 8-1
INFORMATION TECHNOLOGY 2012 EXPENSE COMPARISON SUMMARY
(IN THOUSANDS OF 2012 DOLLARS)**

Line No.	Program	MWC	2012 Budget	2012 Actual	2012 Difference Higher/(Lower)	2013 Budget
1	Baseline	JV	\$218,115	\$203,625	(14,490)	\$220,920
2	Lifecycle	JV	4,300	4,536	236	4,307
3	Continuous Improvement	JV	-	1,056	1,056	2,500
4	Technology Reliability Portfolio Projects	JV	4,218	5,379	1,161	3,583
5	Technology Projects (Functional Area IT Projects)	JV	25,798	35,610	9,812	37,364
6	Total		<u>\$252,431</u>	<u>\$250,206</u>	<u>(\$2,225)</u>	<u>\$268,675</u>

**PACIFIC GAS AND ELECTRIC COMPANY
2012 GENERAL RATE CASE APPLICATION 09-12-020
INFORMATION TECHNOLOGY EXPENSE AND CAPITAL INFORMATION**

**TABLE 8-2
INFORMATION TECHNOLOGY 2012 CAPITAL COMPARISON SUMMARY
(IN THOUSANDS OF 2012 DOLLARS)**

Line No.	Program	MWC (2)	2012 Budget	2012 Actual	2012 Difference Higher/(Lower)	2013 Budget
1	Lifecycle	2F	\$50,322	\$60,557	10,235	\$72,792
2	Continuous Improvement	2F (3)	0	3,459	3,459	7,000
3	Technology Reliability Portfolio Projects (TRP Projects)	2F	87,616	90,573	2,957	58,352
4	Technology Projects (Functional Area IT Projects)	2F	127,809	125,753	(2,057)	169,299
5	Total	(1)	\$265,747	\$280,342	\$14,594	\$307,443

Notes:

- 1 MWC 2F is increased by \$1.5M from its previously reported 2012 budget of \$264.2M due to reorganization of Contact Center Refresh work from Customer Care.
- 2 The refreshed IT program view represents the new technology strategy introduced in the 2014 GRC testimony (pages 8-2 through 8-3) and depicted in WP 8-146 through 8-147.
- 3 Continuous Improvement initiatives include efforts designed to improve and reduce costs for IT services. Technology Reliability Portfolio Projects are large scale IT projects originating within the IT organization. (See 2014 GRC testimony, page 8-40).

**PACIFIC GAS AND ELECTRIC COMPANY
2012 GENERAL RATE CASE APPLICATION 09-12-020
INFORMATION TECHNOLOGY EXPENSE AND CAPITAL INFORMATION**

MWC Description – Expense

MWC JV – Maintain Applications and Infrastructure – MWC JV is the identifier for all IT expense. MWC JV includes costs for ongoing maintenance, operations and repair for PG&E's IT applications, systems and infrastructure.

**PACIFIC GAS AND ELECTRIC COMPANY
2012 GENERAL RATE CASE APPLICATION 09-12-020
INFORMATION TECHNOLOGY EXPENSE AND CAPITAL INFORMATION**

**TABLE 8-3
INFORMATION TECHNOLOGY 2012 EXPENSE COMPARISON
(IN THOUSANDS OF 2012 DOLLARS)**

Line No.	Program	MWC	2012 Budget	2012 Actual	2012 Difference Higher/Lower	Explanation
1	Baseline	JV	\$218,115	\$203,625	(\$14,490)	Decrease due to shifting focus on capital project work in both the Infrastructure & Operations and Business Applications Technology organizations as well as staffing efficiencies.
2	Lifecycle	JV	4,300	4,536	236	Immaterial variance.
3	Continuous Improvement	JV	-	1,056	1,056	Increase due to various efforts in response to support LOB technology solutions, e.g., improving remote service access for employees by expanding the storage capacity on email.
4	Technology Reliability Portfolio Projects (TRP Projects)	JV	4,218	5,379	1,161	Increase due to Data Center Modernization facility lease costs and Radio Network Refresh/Consolidation projects end user training costs above budget.
5	Technology Projects (Functional Area IT Projects)	JV	25,798	35,610	9,812	Increase due to the Company focus on investing in more efficient technology solutions to effectively address operational needs. Primary drivers were a protracted plan/analyze work stream to solidify scope on the Pathfinder project for Gas Operations which will convert key asset and maintenance information to a Geographic Information System (GIS); new functionality for the Integrated Planning System in Finance enabling a streamlined process to manage operational budgets; and the plan/analyze work stream for the Green House Gas (GHG) and energy trading systems.
6		Total	<u>\$252,431</u>	<u>\$250,206</u>	<u>(\$2,225)</u>	

8-4

**PACIFIC GAS AND ELECTRIC COMPANY
2012 GENERAL RATE CASE APPLICATION 09-12-020
INFORMATION TECHNOLOGY EXPENSE AND CAPITAL INFORMATION**

MWC Description – Capital

MWC 2F – Build Applications and Infrastructure – MWC 2F is the identifier for all IT capital expenditures. MWC 2F includes the costs to design, develop and enhance applications, systems and infrastructure technology solutions.

**PACIFIC GAS AND ELECTRIC COMPANY
2012 GENERAL RATE CASE APPLICATION 09-12-020
INFORMATION TECHNOLOGY EXPENSE AND CAPITAL INFORMATION**

**TABLE 8-4
INFORMATION TECHNOLOGY 2012 CAPITAL COMPARISON
(IN THOUSANDS OF 2012 DOLLARS)**

Line No.	Program	MWC	2012 Budget	2012 Actual	2012 Difference Higher/(Lower)	Explanation
1	Lifecycle	2F	\$50,322	\$60,557	\$10,235	Increase due to a previous delay (2010-2011) on material purchases in Field Support (laptops) compounded by a compressed replacement cycle driven by the Windows 7 project; and Wireless Lifecycle (backhaul) material purchases driven by Radio Refresh projects.
2	Continuous Improvement	2F	0	3,459	3,459	Increase due to various efforts to support LOB for technology solutions, e.g., improving productivity by increasing PC response time and deploying Outage Management Applications so they can be accessed by both iPhones/iPads.
3	Technology Reliability Portfolio Projects (TRP Projects)	2F	87,616	90,573	2,957	Increase due to SmartMeter™ operations (network relays) material purchases to close unplanned infrastructure gaps for both Electric and Gas SmartMeters as well as Radio Network Refresh/Consolidation project overruns.
4	Technology Projects (Functional Area IT Projects)	2F	127,809	125,753	(2,057)	Decrease due to delays in the plan/analyze work stream to solidify scope on the Pathfinder project for Gas Operations which will convert key asset and maintenance information to a Geographic Information System (GIS). Other drivers include design changes in the New General Ledger project for Finance which enables dual ledger reporting capability and the dual posting requirement; and delays in implementing the design work stream for the Green House Gas (GHG) and energy trading systems, as well as the accelerated purchase of software licenses for the system which were negotiated at a 55 percent discount for the Company.
5		Total	\$265,747	\$280,342	\$14,594	

8-6

SECTION 9
Shared Services
Detailed Variance Explanations

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
SHARED SERVICES 2012 EXPENSE AND CAPITAL INFORMATION**

**TABLE 9-1
SHARED SERVICES 2012 EXPENSE COMPARISON SUMMARY
(IN THOUSANDS OF 2012 DOLLARS)**

Line No.	MWC Description	MWC	2012 Budget	2012 Actual	2012 Difference Higher/(Lower)	2013 Budget
1	Support	AB	\$1,694	\$1,142	(\$552)	\$914
2	Maintain Buildings	BI	15,300	15,960	660	14,295
3	Manage Environmental Operations	AK	10,077	10,050	(27)	10,220
4	Habitat and Species Protection	AY	1,410	1,405	(4)	1,292
5	Manage Waste Disposal & Transportation	CR	2,680	3,389	709	2,680
6	Implement Environmental Projects	ES	855	678	(177)	905
7	Safety Engineering & OSHA Compliance	FL	14,325	12,885	(1,440)	13,665
8	Manage Land Services	JE	1,933	2,028	95	2,200
9	Implement Real Estate Strategy	JH	3,982	3,888	(94)	4,325
10	Manage Environmental Remediation-Earnings	JK	6,458	6,135	(322)	6,030
11	Procure Materials & Services	JL	7,088	6,042	(1,046)	7,365
12	Total		\$65,800	\$63,601	(\$2,199)	\$63,890

Notes:

- 1 MWC EP was realigned to Power Generation and the Risk department, reducing the previously reported 2012 budget of \$1.0M by \$1.0M.

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
SHARED SERVICES 2012 EXPENSE AND CAPITAL INFORMATION**

**TABLE 9-2
SHARED SERVICES 2012 CAPITAL COMPARISON SUMMARY
(IN THOUSANDS OF 2012 DOLLARS)**

Line No.	MWC Description	MWC	2012 Budget	2012 Actual	2012 Difference Higher/(Lower)	2013 Budget
1	Fleet/Automotive Equipment	04	\$136,407	\$171,063	\$34,655	\$194,314
2	Tools & Equipment	05 (1)	1,444	1,807	363	1,540
3	Implement Environment Projects	12	4,941	3,226	(1,715)	5,570
4	Purchase/Install - Other Capital	21	439	581	142	451
5	Maintain Buildings	22	46,045	44,515	(1,530)	102,761
6	Implement Real Estate Strategy	23	6,931	9,762	2,832	10,500
7	EV - Station Infrastructure	28 (2)	0	1,063	1,063	200
8	Manage Buildings	78	45,100	18,301	(26,799)	0
9	Total		\$241,307	\$250,318	\$9,011	\$315,336

Notes:

- 1 MWC 05 is decreased by \$0.2M from its previously reported 2012 budget of \$1.6M due to budget transfer to Customer Care for Fremont meter plant.
- 2 MWC 28 is a new MWC in Shared Services for electric vehicle infrastructure support costs.

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
SHARED SERVICES 2012 EXPENSE AND CAPITAL INFORMATION**

MWC Descriptions – Expense

MWC AB – Support – includes costs associated with climate protection and other environmental leadership initiatives. MWC AB also includes standard cost variances for Shared Services departments that charge out their costs to other organizations¹ and miscellaneous support costs.

MWC BI – Maintain Buildings – includes costs to repair and maintain base building to extend the life of building components, correct building component deficiencies, improve equipment operating efficiencies, and increase the operating reliability of buildings and yards.

MWC AK – Manage Environmental Operations – includes costs for environmental compliance support, permits and day-to-day costs that are part of facility environmental operations. MWC AK also includes routine environmental work, including the labor costs of environmental professionals and facility personnel who perform environmental compliance tasks (e.g., inspections, compliance assessments, corrective actions and hazardous waste management).

MWC AY – Habitat and Species Protection – includes compliance with regulations to protect endangered species and sensitive habitats as part of PG&E's broader Environmental Stewardship Program. The Environmental Stewardship Program covers initiatives to support habitat and species protection, avian protection, land stewardship and conservation partnerships. MWC AY specifically includes administration costs for Habitat Conservation Plans and the forecast portion of the mitigation land offset costs that will be charged.

MWC CR – Manage Waste Disposal & Transportation – includes costs of transportation and disposal of hazardous and other regulated wastes in accordance with Federal and state laws and regulations.

MWC ES – Implement Environment Projects – includes costs associated with repairing, replacing, or upgrading equipment to comply with environmental regulations.

¹ Standard Cost Variance is described in the Gas Distribution expense Section 2 of this report.

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
SHARED SERVICES 2012 EXPENSE AND CAPITAL INFORMATION**

MWC FL – Safety Engineering & OSHA Compliance – includes costs of the Safety Engineering & Health Services department which provides overall direction and implementation of the Company’s occupational safety and health programs. MWC FL also includes costs for the development and integration of safety and health solutions working to eliminate employee injuries.

MWC JE – Manage Land Services – includes costs to establish policies and provide support for the management and protection of the Company’s land and land rights in support of PG&E’s utility operations. MWC JE also includes costs to manage the Company’s timberlands to achieve optimal revenues while maintaining and/or enhancing timberland values.

MWC JH – Implement Real Estate Strategy – includes costs for real estate planning, the Building Environmental Sustainability (BES) program management, client relationship management, space management, demand planning, building leasing, lease management, and surplus property sales work.

MWC JK – Manage Environmental Remediation-Earnings – includes costs for the cleanup of contaminated sites which are not recovered through the Hazardous Substance Mechanism (HSM), decommissioning accounts, or at shareholder expense. These include internal labor and expenses associated with management and support of the site remediation as well as contractor and legal fees.

MWC JL – Procure Materials & Services – includes costs to procure goods and services, including implementing programs to improve organizational effectiveness, developing supplier alliances, and maintaining and promoting a diverse supplier base.

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
SHARED SERVICES 2012 EXPENSE AND CAPITAL INFORMATION**

**TABLE 9-3
SHARED SERVICES 2012 EXPENSE COMPARISON
(IN THOUSANDS OF 2012 DOLLARS)**

Line No.	MWC	2012 Budget	2012 Actual	2012 Difference Higher/(Lower)	Explanation
1	AB	\$1,694	\$1,142	(\$552)	Decrease due to office space lease commission rebates.
2	BI	15,300	15,960	660	Immaterial variance.
3	AK	10,077	10,050	(27)	Immaterial variance.
4	AY	1,410	1,405	(4)	Immaterial variance.
5	CR	2,680	3,389	709	Increase due payment of Hazardous Waste Generator Fees and wildfire salvage work.
6	ES	855	678	(177)	Decrease due to delay in fuel storage tank repairs and Spill Prevention, Control, and Countermeasure plans.
7	FL	14,325	12,885	(1,440)	Decrease due to transfer of public safety function from Safety Department to Gas Operations and delays in filling vacant positions.
8	JE	1,933	2,028	95	Immaterial variance.
9	JH	3,982	3,888	(94)	Immaterial variance.
10	JK	6,458	6,135	(322)	Immaterial variance.
11	JL	7,088	6,042	(1,046)	Decrease due to a delay in filling vacant positions.
12	Total	\$65,800	\$63,601	(\$2,199)	

9-6

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
SHARED SERVICES 2012 EXPENSE AND CAPITAL INFORMATION**

MWC Descriptions – Capital

MWC 04 – Fleet/Automotive Equipment – includes acquisition of vehicles, power-operated and off-road equipment, and trailers needed to respond to customer service requests and the myriad of maintenance and construction needs of the Company.

MWC 05 – Tools & Equipment – includes purchase of tools and equipment required to perform various functions, including fleet repairs, warehouse operations, etc.

MWC 12 – Implement Environment Projects – includes costs associated with repairing, replacing, or upgrading equipment and facilities to comply with environmental regulations.

MWC 21 – Purchase/Install – Other Capital – includes costs related to the disposition and sale of PG&E's surplus, obsolete or damaged assets.

MWC 22 – Maintain Buildings – includes the costs to replace and construct base buildings, to extend the life of building components, correct building component deficiencies, improve equipment operating efficiencies, replace failed or functionally obsolete building components, and increase the operating reliability of buildings and yards. This includes furniture, office equipment, and IT Infrastructure for buildings.

MWC 23 – Implement Real Estate Strategy – includes the costs for new buildings and yards, including the purchase of land and the purchase and installation of furniture, office equipment, and IT Infrastructure, as well as the costs to improve building environmental sustainability, to implement workplace strategy, and to optimize the real estate portfolio.

MWC 78 – Manage Buildings – includes upgrades and additions to the Applied Technology Services San Ramon Technology Center facilities to support the changing needs of the business. Planned projects include the modular generation test facility, the flow test facility, the weld lab facility, the weather office facility and the outdoor meteorology measurement facility.

PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
SHARED SERVICES 2012 EXPENSE AND CAPITAL INFORMATION

New MWC Descriptions

MWC 28 – EV-Station Infrastructure – includes the cost of electric vehicle charging infrastructure for PG&E’s owned vehicles.

**PACIFIC GAS AND ELECTRIC COMPANY
2011 GENERAL RATE CASE APPLICATION 09-12-020
SHARED SERVICES 2012 EXPENSE AND CAPITAL INFORMATION**

**TABLE 9-4
SHARED SERVICES 2012 CAPITAL COMPARISON
(IN THOUSANDS OF 2012 DOLLARS)**

Line No.	MWC	2012 Budget	2012 Actual	2012 Difference Higher/(Lower)	Explanation
1	04	\$136,407	\$171,063	\$34,655	Increase due to expenditure higher than original forecast to replace rental vehicles with PG&E owned vehicles.
2	05	1,444	1,807	363	Increase due to purchase of additional vehicle electronic diagnostic tools.
3	12	4,941	3,226	(1,715)	Decrease due to delay in fuel storage tank removal projects and less than anticipated wood pole disposal.
4	21	439	581	142	Immaterial variance.
5	22	46,045	44,515	(1,530)	Decrease due to delay in San Francisco Service Center Cap Management project.
6	23	6,931	9,762	2,832	Increase due to capital improvements needed resulting from the One Market Plaza Office Relocation.
7	28	0	1,063	1,063	Increase due to installation of additional electric vehicle charging stations in 2012.
8	78	45,100	18,301	(26,799)	Decrease due to delay in the Gas Operations Distribution Control Center consolidation
9	Total	\$241,307	\$250,318	\$9,011	

PACIFIC GAS AND ELECTRIC COMPANY
APPENDIX A
MAJOR WORK CATEGORY (MWC) CONVERSION DOCUMENT

Pacific Gas & Electric Company
March 30 2013 GRC Budget Reporting Document - Appendix A
Major Work Category (MWC) Conversion Document

The following tables provide mapping for MWCs used in the 2011 GRC that have been replaced by new MWCs in a LOB. The objective of these MWC changes is to provide greater reporting granularity or better management of similar work using a common MWC.

Gas Distribution				
Prior MWC (used in the 2011 GRC)	Prior MWC Description	New MWC	New MWC Description	Period of Update
DE	Leak Survey (DIMP portion)	JS	Distribution Integrity Management Program (DIMP)	August 3rd, 2011 Budget Report
FH	Preventive Maintenance (DIMP portion)	JS	Distribution Integrity Management Program (DIMP)	August 3rd, 2011 Budget Report
EW	Work Requested by Others (Gas and Electric WRO)	LK	Gas Expense WRO Activities	March 30th, 2012 Budget Report
N/A, New MWC		2J	Gas T&D Implement Regulatory Change	March 30th, 2012 Budget Report
	Presented in Customer Care for 2011 GRC	DD	Perform Field Service (split from Customer Care)	March 28th, 2013 Budget Report
	Presented in Customer Care for 2011 GRC	GM	Manage Energy Efficiency (non-balancing account) (split from Customer Care)	March 28th, 2013 Budget Report
	Presented in Customer Care for 2011 GRC	HY	Perform Gas Meter Maintenance (split Customer Care)	March 28th, 2013 Budget Report
	Presented in Customer Care for 2011 GRC	31	Natural Gas Vehicle Station Infrastructure (transfer from Customer Care)	March 28th, 2013 Budget Report
	Presented in Customer Care for 2011 GRC	74	Gas Metering Capital (transfer from Customer Care)	March 28th, 2013 Budget Report
N/A, New MWC		4A	Gas Distribution Control Operations Assets	March 28th, 2013 Budget Report

Electric Distribution				
Prior MWC (used in the 2011 GRC)	Prior MWC Description	New MWC	New MWC Description	Period of Update
BG	Preventive Maintenance & Equipment Repair	KA	Electric Distribution Maintenance - Overhead	August 3rd, 2011 Budget Report
BG	Preventive Maintenance & Equipment Repair	KB	Electric Distribution Maintenance - Underground	August 3rd, 2011 Budget Report
BG	Preventive Maintenance & Equipment Repair	KC	Electric Distribution Maintenance - Network	August 3rd, 2011 Budget Report
GB	Splice / Connector Replacement	KB	Electric Distribution Maintenance - Underground	August 3rd, 2011 Budget Report
57	Electric Distribution Preventive Maintenance	2A	Electric Distribution Maintenance - Overhead	August 3rd, 2011 Budget Report
57	Electric Distribution Preventive Maintenance	2B	Electric Distribution Maintenance - Underground	August 3rd, 2011 Budget Report
57	Electric Distribution Preventive Maintenance	2C	Electric Distribution Maintenance - Network	August 3rd, 2011 Budget Report
AB	Support (Chief Operating Officer organization)	KT	Utility Performance Improvement Services	March 30th, 2012 Budget Report
	Presented in Customer Care for 2011 GRC	DD	Perform Field Service (split from Customer Care)	March 28th, 2013 Budget Report

Customer Care				
Prior MWC (used in the 2011 GRC)	Prior MWC Description	New MWC	New MWC Description	Period of Update
87	Office Equipment	21	Purchase/Install Other Capital Equipment	August 3rd, 2011 Budget Report
DA	Process Customer Bills	IS	Bill Customers	August 3rd, 2011 Budget Report
DB	Receive & Assure Revenue	IS	Bill Customers	August 3rd, 2011 Budget Report
DB	Receive & Assure Revenue	IT	Manage Credit	August 3rd, 2011 Budget Report
DB	Receive & Assure Revenue	IU	Collect Revenue	August 3rd, 2011 Budget Report
FT	Customer Service Office Txns	DK	Manage Customer Inquiries	August 3rd, 2011 Budget Report
FT	Customer Service Office Txns	EZ	Manage Var Cust Care Processes	August 3rd, 2011 Budget Report
FT	Customer Service Office Txns	IS	Bill Customers	August 3rd, 2011 Budget Report
FT	Customer Service Office Txns	IT	Manage Credit	August 3rd, 2011 Budget Report
FT	Customer Service Office Txns	IU	Collect Revenue	August 3rd, 2011 Budget Report

Power Generation				
Prior MWC (used in the 2011 GRC)	Prior MWC Description	New MWC	New MWC Description	Period of Update
BZ	Maintain Fossil Generation	KL	Maintain Fossil Generating Equipment	March 30th, 2012 Budget Report
BK	Maintain Other Equipment			
CJ	Fossil Generation Expense Projects			
AI	Maintain Generation Facilities - Structure	KM	Maintain Fossil Generation Buildings, Grounds & Infrastructure	March 30th, 2012 Budget Report
BZ	Maintain Fossil Generation			
CP	Maintain Other Generation Facilities			
HZ	Manage Safety Program	KG	Operate Hydro Generation	March 30th, 2012 Budget Report
AW	Operate Generation Facilities			
BB	Maintain Generators	KH	Maintain Hydro Generating Equipment	March 30th, 2012 Budget Report
BK	Maintain Other Equipment			
AI	Maintain Generation Facilities - Structure	KI	Maintain Hydro Generation Building, Grounds & Infrastructure	March 30th, 2012 Budget Report
AZ	Maintain Roads and Bridges			
DL	Compliance with Hydro Licenses	KJ	Regulatory Compliance Hydro Generation	March 30th, 2012 Budget Report
DP	Manage Recreational Facilities			
BY	Operate Fossil Generation	KK	Operate Fossil Generation	March 30th, 2012 Budget Report
CR	Manage Waste Disposal and Transportation			
CP	Maintain Other Generation Facilities	KR	Maintain Alternative Generation Generating Equipment	March 30th, 2012 Budget Report
13	Power Gen Safety and Regulatory	2L	Install/Replace for Hydro Generation Safety & Reg Requirements	March 30th, 2012 Budget Report
81	Power Gen Maintain Reliability/Availability	2M	Install/Replace Hydro Generation Equipment	March 30th, 2012 Budget Report
81	Power Gen Maintain Reliability/Availability	2N	Install/Replace Reservoirs, Dams & Waterways	March 30th, 2012 Budget Report
81	Power Gen Maintain Reliability/Availability	2P	Install/Replace Hydro Generation Buildings, Grounds & Infrastructure	March 30th, 2012 Budget Report
13	Power Gen Safety and Regulatory	2R	Install/Replace Fossil Generation Safety & Regulatory Requirements	March 30th, 2012 Budget Report
81	Power Gen Maintain Reliability/Availability	2S	Install/Replace Fossil Generation Equipment	March 30th, 2012 Budget Report
81	Power Gen Maintain Reliability/Availability	2T	Install/Replace Fossil Generation Buildings, Grounds & Infrastructure	March 30th, 2012 Budget Report
96	Separately Funded	2U	Construct New Fossil Generation	March 30th, 2012 Budget Report
96	Separately Funded	3B	Install/Replace Alternative Generation Generating Equipment	March 30th, 2012 Budget Report

Information Technology				
Prior MWC (used in the 2011 GRC)	Prior MWC Description	New MWC	New MWC Description	Period of Update
03	Office Furniture & Equipment	2F	Maintain IT Applications and Infrastructure	August 3rd, 2011 Budget Report
05	Tools & Equipment	2F	Maintain IT Applications and Infrastructure	August 3rd, 2011 Budget Report
20	DCPP Capital	2F	Maintain IT Applications and Infrastructure	August 3rd, 2011 Budget Report
21	Purchase/Install Other Capital	2F	Maintain IT Applications and Infrastructure	August 3rd, 2011 Budget Report
53	IT Applications	2F	Maintain IT Applications and Infrastructure	August 3rd, 2011 Budget Report
85	IT Infrastructure	2F	Maintain IT Applications and Infrastructure	August 3rd, 2011 Budget Report
AK	Support	JV	Build IT Applications and Infrastructure	August 3rd, 2011 Budget Report
BP	Manage DCPP Business	JV	Build IT Applications and Infrastructure	August 3rd, 2011 Budget Report
FB	Maintenance of Computing Network & Systems	JV	Build IT Applications and Infrastructure	August 3rd, 2011 Budget Report

IM	IT_Applications	JV	Build IT Applications and Infrastructure	August 3rd, 2011 Budget Report
IN	Enterprise Management IT	JV	Build IT Applications and Infrastructure	August 3rd, 2011 Budget Report
IO	IT_Infrastructure	JV	Build IT Applications and Infrastructure	August 3rd, 2011 Budget Report

Shared Services				
Prior MWC (used in the 2011 GRC)	Prior MWC Description	New MWC	New MWC Description	Period of Update
05	Tools & Equipment	21	Purchase / Install – Other Capital	August 3rd, 2011 Budget Report
20	DPPP Capital	21	Purchase / Install – Other Capital	August 3rd, 2011 Budget Report
78	Manage Buildings	22	Maintain Buildings	August 3rd, 2011 Budget Report
78	Manage Buildings	23	Implement Real Estate Strategy	August 3rd, 2011 Budget Report
87	Office Equipment	23	Implement Real Estate Strategy	August 3rd, 2011 Budget Report
88	Office Furniture	22	Maintain Buildings	August 3rd, 2011 Budget Report
AB	Support	JL	Procure Materials & Services	August 3rd, 2011 Budget Report
EP	Manage Property & Buildings	JE	Manage Land Services	August 3rd, 2011 Budget Report
EP	Manage Property & Buildings	JH	Implement Real Estate Strategy	August 3rd, 2011 Budget Report
EQ	Real Property Acquisition & Sales	JE	Manage Land Services	August 3rd, 2011 Budget Report
EQ	Real Property Acquisition & Sales	JH	Implement Real Estate Strategy	August 3rd, 2011 Budget Report
IE	Environmental Remediation, Non-HSM Recovery	JK	Manage Environmental Remediation-Earnings	August 3rd, 2011 Budget Report
FA	Special A&G/Other Costs-Budget Department	FL	Safety Engineering & OSHA Compliance	March 30th, 2012 Budget Report
	In Customer Care for 2011 GRC	28	EV Station Infrastructure (transfer from Customer Care)	March 28th, 2013 Budget Report