



May 17, 2019

Ms. Angela Calvillo
Clerk of the Board of Supervisors
City Hall, Room 244
1 Dr. Carlton B. Goodlett Place
San Francisco, CA 94102-4689

RE: San Francisco Public Utilities Commission’s Quarterly Report to the Board of Supervisors on the Status of Applications to PG&E for Electric Service.

Dear Ms. Calvillo:

The attached quarterly report has been prepared for the Board of Supervisors in accordance with Resolution No. 227-18, approved by the Board on July 10, 2018 (File No. 180693) and enacted on July 20, 2018.

Pursuant to the terms of Resolution No. 227-18, the San Francisco Public Utilities Commission (SFPUC) shall “provide the Board a quarterly report for the next two years that identifies the following: status of all City projects with applications to SFPUC for electric service, including project schedules and financing and other deadlines; project sponsor and SFPUC concerns in securing temporary and permanent power, including obstacles that could increase costs or delay service to City customers; and the status of disputes with PG&E before the Federal Energy Regulatory Commission (FERC) or in other forums.”

BACKGROUND:

On June 13, 2018, a Public Safety and Neighborhood Services Committee hearing was held to discuss Pacific Gas and Electric Company’s (PG&E) role in delaying and obstructing service provision by making unnecessary and/or untimely requests for information, such as requiring system impact studies for very small loads. In accordance with Resolution No. 227-18 enacted subsequent to the hearing, please find attached the third quarterly report submitted by the SFPUC to date.

PG&E has a history of denying the City’s requests for secondary (low-voltage) service for City projects. In many of these cases, PG&E contends that the City should provide primary (high-voltage) service for facilities with small electric loads that are typically served with secondary service. PG&E’s requirement for City projects to use primary

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OUR MISSION: To provide our customers with high-quality, efficient and reliable water, power and sewer services in a manner that values environmental and community interests and sustains the resources entrusted to our care.



(high-voltage) power service has caused months of delay in meeting project timelines; and in some cases, PG&E has eventually granted secondary power service after the SFPUC has already applied for primary service at additional cost. The City believes it has a right to secondary service but has compromised with PG&E on a number of projects, which will receive primary service with low-side metering and high-side protection (sometimes referred to as secondary metering).

REPORT SUMMARY:

For the reporting period of February 1 through May 17, 2019, the SFPUC has identified 61 projects that have experienced interconnection issues due to delays, arbitrary requests or increased project costs, as listed in **Attachment A**.

Since the previous quarterly report on status of projects through January 2019, 8 new projects have been added and no new additional projects have been energized. Of the 8 new projects, 6 of the 8 are at a standstill and half are affordable housing projects.

Any updates and changes to projects since the previous quarterly report are detailed in Column P of Attachment A. **Attachment B** contains a map providing the location of each project.

Affordable Housing: As mentioned in the previous quarterly report, on November 2, 2018 the SFPUC and PG&E came to an agreement identifying 6 affordable housing projects, which are to connect to PG&E's system at primary service with low-side metering and high-side protection as SFPUC customers. While this agreement has allowed these projects to move forward towards energization, PG&E has indicated that no additional affordable housing projects will be receiving the same treatment.

Cost Impacts: **Attachment C** contains a detailed report of each category of additional incurred costs and impacts to the City per project, such as redesign costs, construction and equipment costs, and additional staff time (also included in the 'Impacts' column of Attachment A). The total cost impacts to the City are now estimated to be more than \$9.5 million. Total costs do not include estimated costs for projects that are at a standstill.

The City also continues to face other delays to projects from PG&E. While delays related to specific interconnection requests are detailed in this report, the City is also experiencing delays in non-interconnection requests to PG&E, such as requests for Arc Flash Assessments. Delays to Arc Flash Assessment requests are problematic as they are necessary for protecting workers from shock hazard.

STATUS OF DISPUTES WITH PG&E BEFORE FERC:

The City and PG&E filed a settlement with the Federal Energy Regulatory Commission (FERC) on December 14, 2018 to resolve procedural and technical disputes in 10 FERC cases the City protested in 2017 and 2018. On April 16, 2019, the settlement judge recommended the settlement to the Commission. The Commission has taken no action yet. Some issues in four of the cases were not completely resolved by the settlement and have been assigned to a FERC trial judge for additional review. The City is also waiting for a FERC decision on the City's 2014 complaint and related cases that were litigated in 2016.

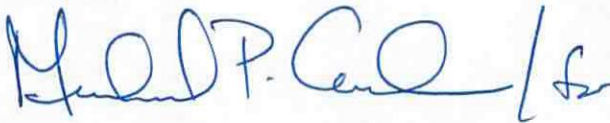
The City filed a complaint against PG&E with FERC on January 28, 2019 to address PG&E's demand for primary service for small facilities. PG&E asserted that any action on the complaint was stayed by the bankruptcy. On April 18, 2019, the City filed a motion in the PG&E bankruptcy case asking the court to grant relief from the stay and allow the City's complaint to proceed. The court granted the City's motion in a hearing on May 9, 2019.

Please find attached copies of the following documents related to this report:

- **Attachment A:** List of projects with active interconnection applications to PG&E for electric service as of May 2019
- **Attachment B:** Map of projects with PG&E power connection delays as of May 2019
- **Attachment C:** Cost impacts

Should you have any questions, please contact Barbara Hale, SFPUC Assistant General Manager for Power, at BHale@sfgwater.org and 415-554-2483.

Sincerely,

A handwritten signature in blue ink, appearing to read "Harlan L. Kelly, Jr.", followed by a stylized flourish.

Harlan L. Kelly, Jr.
General Manager

Attachment A: BOS Quarterly Report for May 2019

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
	PG&E NN#	Project Location	District #	Client Organization	Project Description	Project Status		Initial Application Submittal Date	App Deemed Complete Date	Initial Service Need Date	Did PG&E require Primary?	Load Size/Can Be Served at Secondary	PG&E committed to work w/ SF to energize in 2018	Impacts	Updates/Changes since Last Report (Jan. 2019)
1	114248007	1950 Mission Street - Affordable Housing (157 units)	9	BRIDGE & Mission Housing	New secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward at low-side metering. (See Note 1)	Service Agreement issued by PG&E.	1/18/2018	3/11/2019	9/2/19	Yes	617 kW/Yes		Project delayed - project was in dispute from Jan. 2018 - Sept. 2018 (8-9 months) Construction power is delayed as the project is waiting for PG&E retail service to commence. Costs for primary redesign (and then low-side metering)- \$45k Temp. construction power service by PG&E at retail - \$294k in lost gross revenue to SFPUC. \$81k in additional power costs to the project due to PG&E's higher rates. Additional project costs - \$75k (interrupter, #7 box, & installation) 623,000 lbs. of CO ₂ emissions (construction period of 18 months) Generator costs (for temporary construction power): \$390k	Generators are being used for temporary construction power currently. Temporary power from PG&E at retail should start by July 2019.
2	114232705	490 South Van Ness Avenue - Affordable Housing (81 units)	9	BRIDGE & Mission Housing	New secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward at low-side metering. (See Note 1)	Engineering estimation by PG&E	1/16/2018	3/8/2019	10/1/19	Yes	867 kW/Yes		Project delayed - project was in dispute from Feb. 2018 - Nov. 2018. (8-9 months) Costs for redesign (primary service with low-side metering) - \$15k Temp. construction power service by PG&E at retail - \$145k in lost gross revenue to SFPUC. \$43k in additional power costs to project due to PG&E's higher rates. 294,000 lbs. of CO ₂ emissions (construction period of 16 months) 740,000 lbs of CO ₂ emissions from four months of generator use. Generator costs - \$273k for fuel for first four months (if continues will be another \$50k/month)	Increased generator costs as they are still being used for temp. construction power. Temp. power from PG&E at retail should start by June 2019.
3	114345033	1990 Folsom Street - Affordable Housing (143 units)	9	MEDA	New secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward at low-side metering. (See Note 1)	Engineering estimation by PG&E	2/26/2018	3/14/2019	9/1/20	Yes	920 kW/Yes		Project delayed - project was in dispute from Mar. 2018 - Nov. 2018. (7-8 months) Costs for redesign (primary service with low-side metering) - \$2-3k Temp. construction power service by PG&E at retail - \$563k in lost gross revenue to SFPUC. \$29k in additional power costs to project due to PG&E's higher rates. 927,000 lbs. of CO ₂ emissions (construction period of 22 months)	No impacts update.
4	114671141	2060 Folsom Street - Affordable Housing (127 units)	9	MEDA	New secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward at low-side metering. (See Note 1)	Engineering estimation by PG&E	5/18/2018	3/14/2019	1/15/20	Yes	1387 kW/Yes		Project delayed - project was been in dispute from Jun. 2018 - Nov. 2018 (4-5 months) Costs for redesign (primary service with low-side metering) - \$2-3k Temp. construction power service by PG&E at retail - \$581k in lost gross revenue to SFPUC. \$8k in additional power costs to project due to PG&E's higher rates. 922,000 lbs. of CO ₂ emissions (construction period of 22 months)	No impacts update.
5	112828717	2 Rankin Street - Central Bayside Pump Station	10	SFPUC-Wastewater	New primary service	Delays caused by PG&E failing to provide Service Agreement on time.	Service Agreement issued by PG&E without full scope of work. SFPUC waiting to review the full scope.	5/1/2017	8/17/2017	6/1/19	N/A	7000 kW/No		Project delayed - SF granted a time extension to PG&E of one extra month to provide Service Agreement. PG&E took an extra 4 months. Project is incurring more delays as SF continues to wait for a facility study draft agreement from PG&E. Service need date is jeopardized.	Further delays - SF is waiting for PG&E to provide a Facility Study draft agreement (has already passed the WDT timeline).
6	114546573	2401 Keith Street - Southeast Health Center	10	SFPW for SFDPH	New secondary service	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Project is at a standstill.	4/27/2018		7/26/20	Yes	200 kW/Yes		Project delayed - project has been in dispute since May 2018 (10-11 months) The opening of a new wing at the health center will be delayed, pushing back plans to integrate a more family-oriented primary care model. If required, primary switchgear will take the place of several parking spaces in an already constrained lot and cost the project an additional \$500k.	Delay continues. PG&E has not responded to SF's request for low-side metering sent on 8/24/18.
7	114713666	2110 Greenwich Street - Tule Elk Elementary	2	SFUSD	Upgrading and relocating existing secondary service	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Project is at a standstill.	6/15/2018		6/1/19	Yes	300 kW/Yes		Project delayed - project has been in dispute since Jun. 2018 (9-10 months) The timeline is very constrained as the school needs to remain open. Delays will push back much needed health and safety improvements to the facility. If required, primary switchgear will take the place of outdoor education space that is required by the state and cost the project an additional \$500k. Further design delays will impact the project construction budget and timeline.	Delay continues. PG&E has not responded to SF's request for low-side metering sent on 8/8/18.
8	113752930	51 Havelock Street - Balboa Pool	11	SFRPD	Replace and relocate existing secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward at low-side metering. (See Note 1)	Energized	7/5/2016	3/14/2018	8/2/17	Yes	75 kW/Yes		Project delayed - project was in dispute from Jan. 2017 - Jun. 2018 (18-19 months) Electrical Redesign (to include interrupter): \$20k Additional Construction Cost: \$670k Additional Construction and Project Management Cost due to schedule delay: \$500k Lost gross revenue to SFPUC due to delays: \$14k Many swim programs were cancelled due to the project delay. The delay had a domino effect on RPD's plans to renovate a group of community pools.	Project is energized and will be removed from the list next report.
9	114671200	1995 Evans - Traffic Controls and Forensics	10	SFPW for SFPD	New secondary service	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Project is at a standstill.	5/18/2018		3/1/20	Yes	2100 kW/Yes		Project delayed - project has been in dispute since Jun. 2018 (9-10 months). There are also pending issues regarding the franchise. Delays will affect the timeline of moving SFPD's Traffic Company and Forensic Services Division. If required, primary switchgear will take the space of parking spaces for SFPD vehicles.	Delay continues. PG&E has not responded to SF's request for low-side metering sent on 8/24/18.
10		Stockton btwn Ellis & O'Farrell - Central Subway Streetlight Reinstallation	3	SFMTA	Streetlight re-installation	Franchise Agreement dispute	Some issues remain, but SF and PG&E are working together to ensure proper streetlight installation.	N/A	N/A	N/A	N/A	N/A		PG&E and the City are in disagreement on who is responsible for re-installing the foundations for the historic streetlights. The City believes this scope of work falls under the franchise agreement.	No impacts update.
11	113167478	1909 16th Street - Streetlights	10	SFPUC - Power	Streetlight attachment on traffic signal	Delays caused by dispute over the "Okay to Serve" process. PG&E has recently indicated that this streetlight attachment can be connected without issues.	Dispute is still ongoing, but project is able to move forward.	8/17/2017		1/12/18	N/A	N/A		PG&E is requiring an "Okay to Serve" process which can cause delays to getting streetlights installed. The streetlight attachment load is really small (less than 1 kW) and remains significantly lower than what SF has paid for at that service point.	No impacts update.
12		Transbay Transit Center - Transbay Joint Powers Authority	6	SFPUC - Power	Two new primary services (5 MW each)	Potential dispute over reserved capacity.	Energized - PG&E reviewing SF's request.	N/A	N/A	N/A	N/A	10 MW/No		PG&E is currently reviewing SF's request to use 10 MW of reserved capacity that SF applied and paid for. If PG&E denies request, SF may incur additional costs or have to limit the tenants.	No impacts update - PG&E performing an "Okay to Serve".

Attachment A: BOS Quarterly Report for May 2019

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
	PG&E NN#	Project Location	District #	Client Organization	Project Description	Project Status		Initial Application Submittal Date	App Deemed Complete Date	Initial Service Need Date	Did PG&E require Primary?	Load Size/Can Be Served at Secondary	PG&E committed to work w/ SF to energize in 2018	Impacts	Updates/Changes since Last Report (Jan. 2019)
13		Multiple Locations - Guy Wires (Franchise Issue)	9 & 10	SFMTA, SFPW, & SFPUC	PG&E's guy wires are impeding on SF projects.	Franchise dispute	Project is at a standstill.	N/A	N/A	N/A	N/A	N/A		PG&E's unresponsiveness in removing guy wires is an obstruction to SF projects. 1) SFMTA cannot install a pole replacement to promote safety. 2) SFPW cannot construct a new ADA curb ramp. 3) SFPUC cannot finish parts of construction at the Southeast Water Treatment Plant.	Delay continues. PG&E has only responded to one of the requests.
14	114088011	Lake Merced Blvd & Sunset Blvd - Restroom	4	SFRPD	New secondary service	Delays caused by dispute over primary vs. secondary.	SF is reviewing service options.	12/8/2017		1/15/19	Yes	10 kW/Yes		Project delayed - project has been in dispute since late Aug. 2018. (4-5 months) Bathroom will not be available for public use at Lake Merced. Primary switchgear will cost the project an additional \$500k in equipment costs and take the space of parking spots.	No impacts update.
15	114571079	50 Bowling Green Drive - GGP Tennis Center	5	SFRPD	New secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward at low-side metering. (See Note 1)	PG&E and SF discussing costs in Service Agreement.	5/3/2018	10/3/2018	2/1/19	Yes	160 kW/Yes	X	Project delayed - project was in dispute from May-July. 2018. (2-3 months) Additional project costs - \$75k (interrupter, #7 box, & installation) Lost gross revenue to SFPUC due to delays: \$1k	No impacts update. SF is waiting for clarification on why PG&E is requiring a distribution system upgrade. The project team disagrees with the liability/cost placement of PG&E upgrades.
16	114713787	1001 22nd Street - Bus Electrification Pilot	10	SFMTA	New primary service	Project is moving forward.	Engineering estimation by PG&E (System Impact Study phase)	6/18/2018	2/14/2019	5/1/19	N/A	2000 kW/Yes		Initially, PG&E was unresponsive in scheduling a pre-application meeting which has caused some delays. PG&E was also late in providing a deemed complete date for the application.	Project will not meet energization requested date.
17	113135002	49 South Van Ness Avenue - Building Inspection Office	5	SFPW for SFDBI	New primary service	Delays caused by PG&E failing to provide Service Agreement on time.	In construction	8/7/2017	11/10/2017	1/1/19	N/A	5848 kW/No		Project delayed - SFPUC granted a time extension to PG&E of one extra month to provide Service Agreement. PG&E took an extra 4 months to provide the service agreement.	No impacts update. Project is in construction.
18	113161547	1296 Shotwell Street - Affordable Senior Housing (94 units)	9	MEDA	New secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward at low-side metering. (See Note 1)	In construction	7/26/2017	11/9/2017	2/1/18	Yes	340 kW/Yes		Project delayed - project was in dispute from August 2017-Oct 2017 (2-3 months). Additional project costs - \$75k (interrupter, #7 box, & installation)	No impacts update. Project is in construction.
19	115020677	88 Broadway - Affordable Housing (125 units)	3	BRIDGE Housing	New secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward at low-side metering. (See Note 1)	Engineering estimation by PG&E.	10/1/2018	3/19/2019	12/2/19	N/A	1674 kW/Yes		Temp. construction power service by PG&E at retail - \$618k in lost gross revenue to SFPUC. \$79k in additional power costs to PG&E's higher rates. 1,090,000 lbs. of CO ₂ emissions (construction period of 18 months)	No impacts update.
20	115019804	735 Davis - Affordable Housing (53 units)	3	BRIDGE Housing	New secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward at low-side metering. (See Note 1)	Engineering estimation by PG&E.	10/1/2018	3/8/2019	12/2/19	N/A	683 kW/Yes		Temp. construction power service by PG&E at retail - \$335k in lost gross revenue to SFPUC. \$18k in additional power costs to the project due to PG&E's higher rates. 554,000 lbs of CO ₂ emissions (construction period of 19 months)	No impacts update.
21	110833085	838 Pacific Avenue - Ping Yuen North Affordable Housing (200 units)	3	CCDC	Replacing and relocating existing service	Delays caused by dispute over primary vs. secondary. Project moving forward at low-side metering. (See Note 1)	In construction	11/3/2015	6/20/2018	6/1/16	Yes	500 kW/Yes		Project delayed - project was in dispute from Sept. 2016 - May 2018 (20 months). Structural, safety, security, and aesthetic upgrades to the development have been delayed as a result. Lost gross revenue to SFPUC due to delays: \$186k Project/construction costs related to redesign and delay: \$240k	No impacts update. Project is in construction.
22	111904415	350 Ellis Street - Affordable Housing (192 units)	6	TNDC	Relocating service & adding fire pump	Delays caused by dispute over "grandfathering" and design requirements for secondary service.	Energized	7/21/2016	1/5/2017	7/1/17	Yes	200 kW/Yes		Project delayed - project was in dispute from Sept. 2016 - June 2017 (10 months). Renovations that included spaces for community space, supportive services, and building management offices have been delayed as a result. Lost gross revenue to SFPUC due to delays: \$110k	Project is energized and will be removed from the list next report.
23	111912344	2451 Sacramento Street - JFK Towers Affordable Housing (98 units)	2	Mercy Housing	Replacing existing service	Delays caused by dispute over primary vs. secondary. Project moving forward at low-side metering. (See Note 1)	Energized	8/1/2016		1/1/17	Yes	432 kW/Yes		Project delayed - project was in dispute from July 2017 - Feb. 2018. (7 months). Seismic retrofits and the addition of a community room have been delayed as a result. Lost gross revenue to SFPUC due to delays: \$15k	Project is energized and will be removed from the list next report.
24	114088015	16th & Terry Francois Blvd. - Mission Bay Ferry Landing	6	SFPORT	New secondary service	PG&E would not provide the requested service.	Cancelled	12/8/2017		6/14/19	Yes	70 kW/Yes		Project delayed - PG&E will not provide 3-phase secondary service. Additional staff time for Port - \$70k Costs of redesign - \$30k	No impacts update. See #53 for new application submitted for this project. The project will be removed from the list next report.
25	111772188	Ferry Terminal	3	SFPORT for WETA	New secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward at low-side metering. (See Note 1)	Engineering estimation by PG&E.	7/5/2016	6/8/2018	6/18/17	Yes	150 kW/Yes	X	The Downtown Ferry Terminal is currently using power from the Agriculture Building. Delays of this service request could delay the redevelopment of the Agriculture Building. This would cause a delay to a build out of a new shorepower connection which would result in significant air pollution from up to 6 ferries idling in the berth. Additional project costs - \$75k (interrupter, #7 box, & installation) Additional staff time for Port - \$32k Additional staff time for WETA - \$64k Costs of redesign - \$32k PG&E has caused further delays by not providing the service agreement on time (4+ months late)	Further delays caused by PG&E not providing the Service Agreement on time.
26	113934715	2241 Jerrold Avenue - Ambulance Deployment Facility	10	SFPW for SFFD	New secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward at low-side metering. (See Note 1)	In construction	3/9/2017	2/8/2018	1/1/18	Yes	300 kW/Yes		Project delayed- project was in dispute from May 2017 - Nov 2017 (6 months). Construction plans for the new ambulance deployment facility have been delayed as a result. Additional project costs - \$75k (interrupter, #7 box, & installation) Costs of redesign - \$100k Costs of construction delays - \$250k Additional Staff Time for SFPW - \$100k Lost gross revenue to SFPUC due to delays: \$110k	No impacts update. Project in construction.

Attachment A: BOS Quarterly Report for May 2019

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
	PG&E NN#	Project Location	District #	Client Organization	Project Description	Project Status		Initial Application Submittal Date	App Deemed Complete Date	Initial Service Need Date	Did PG&E require Primary?	Load Size/Can Be Served at Secondary	PG&E committed to work w/ SF to energize in 2018	Impacts	Updates/Changes since Last Report (Jan. 2019)
27	112173182	Pier 26 - Fire Boat Berthing	6	SFPW for SFFD	New secondary service	PG&E initially required primary. Project is moving forward at secondary service.	In construction	10/28/2016	3/2/2017	2/20/17	Yes	216 kW/Yes		The dispute with PG&E lasted a month and had no material impact on project. The project has been delayed due to non-PGE factors.	No impacts update. Project in construction.
28	111975801	800 Amador Street - Pier 94 - Backlands	10	SFPORT	New secondary service	PG&E required primary. Project is moving forward with primary service.	Service Agreement issued by PG&E.	8/19/2016	8/28/2018	2/1/17	Yes	166 kW/Yes	X	Added costs for primary equipment (overhead) - \$500k The Port is investing over \$8M in upgrading the 16-acre parcel in the Backlands project site. The Port is expected to generate approximately \$250k in monthly rent revenue from this site. Significant delays to this project can cause the Port to lose \$3M in revenue annually. Additional staff time for Port - \$50k Costs of redesign - \$50k	No impacts update.
29	112847828	801 Illinois Street - Crane Cove Park Building	10	SFPORT	New secondary service	PG&E initially required primary. The project team found a way to internally provide service for the near future.	Cancelled	5/5/2017		1/1/18	Yes	50 kW/Yes	X	The project team found an alternative solution for the short term to avoid delays. Staff time for the Port - \$50k Costs of redesign - \$75k Depending on how the future service is finalized, there may be additional impacts.	Application has been cancelled. The project will be removed from the list next report.
30	113764870	2301 San Jose Avenue - Geneva Car Barn	11	SFRPD	New secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward at low-side metering. (See Note 1)	In construction	8/24/2016	5/23/2018	9/20/17	Yes	1330 kW/Yes		Project delayed- project was in dispute from Oct 2016 - Oct 2017 (1 year). Construction plans for the new community arts center have been delayed as a result. Costs of redesign: \$5k Additional project costs - \$75k (interrupter, #7 box, & installation) Lost gross revenue to SFPUUC due to delays: \$13k Additional Staff Time for SFRPD: \$15k	No impacts update. Project in construction.
31	112129708	45th & Lincoln - Restroom for Golden Gate Boat Park	1	SFRPD	New secondary service	Delays caused by PG&E error in estimating.	Energized	10/20/2016	12/9/2016	3/1/17	No	24 kW/Yes		PG&E caused a 3-month delay due to an estimating error. No monetary impact.	Project is energized and will be removed from the list next report.
32	111729695	6 Berry Street - Substation	6	SFMTA	Upgrade existing primary service	Delays caused by PG&E being unresponsive, changing requirements, and being non-transparent with costs and design changes.	Project is on hold as parties are trying to resolve an issue regarding cross-boring.	6/17/2016	12/12/2016	5/1/17	N/A	3000 kW/Yes		SFMTA completed the conduit boring under the rails prior to PG&E's approval. As such, parties disagree on costs and design requirements. SFMTA claims that they are incurring delay claims costs from contractor due to PG&E's failure to approve design and equipment submittals. (actual costs are to be determined but have been estimated to be approximately \$5,000/day for over 300+ days)	No movement. Project continues to incur delay costs.
33	112434942	3455 Van Ness Avenue - AWSS Pump Station No. 2	2	SFPUC - Water	Remove two existing services and replace with one secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward at low-side metering. (See Note 1)	Engineering estimation by PG&E.	12/9/2016		8/1/17	Yes	144 kW/Yes	X	Seismic improvements and architectural upgrades to increase reliability of the pumping station have been delayed. Delays caused by PG&E not providing the Service Agreement on time.	No impacts update.
34	113826990	750 Brannan - Main Library Repository	6	SFPW for SFPL	Increase load request (237 kW to 500 kW)	Dispute over how to process increase in load request.	Service Agreement returned with payment by SFPUC.	11/14/2017	1/18/2018	1/1/18	No	500 kW/Yes		Plans for a new HVAC system at the library repository have been delayed. No monetary impact - however, SF believes that PG&E's requirements for approving load increase for muni loads is extensive and will cause delays to projects.	No impacts update.
35	112774763	Illinois St. & Terry Francois - Mariposa Pump Station	10	SFPUC - Wastewater	Relocate existing secondary service (for construction)	Delays caused by PG&E requiring primary. PG&E has recently indicated that this project can move forward at low-side metering.	Due to the delays, the project is going to take PG&E retail service.	4/13/2017		6/1/18	Yes	169 kW/Yes	X	Temp. construction power service by PG&E at retail - \$588k in lost gross revenue to SFPUC. PG&E delaying temp. power - project team is potentially facing contract delay costs of \$1k/day. \$22k in additional power costs to the project due to PG&E's higher rates. 554,000 lbs of CO2 emissions (construction period of 36 months)	Further delays - PG&E is not providing temporary power on time. The project team is looking into mitigating construction contract delay costs by using a generator.
36	113135782	350 Amber Drive - Police Academy	8	SFPW for SFPD	Upgrading existing secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward at low-side metering.	Service Agreement returned with payment by SFPUC.	8/8/2017	5/22/2018	6/15/18	Yes	160 kW/Yes	X	Project delayed - project was in dispute from Dec 2017-May 2018. (6 months). Health and safety upgrades to the Police Academy building have been delayed as a result. Additional project costs - \$75k (interrupter, #7 box, & installation) Lost gross revenue to SFPUC due to delays: \$18k	No impacts update.
37	113826565	3630 Divisadero - Claire Lilenthal School	2	SFUSD	Upgrading existing secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward at low-side metering. (See Note 1)	In construction	11/14/2017	5/24/2018	5/1/18	Yes	461 kW/Yes	X	Project delayed - project was in dispute from Nov. 2017 - Apr. 2018. (5-6 months). The construction of a new building on campus has been delayed as a result. Additional project costs - \$75k (interrupter, #7 box, & installation) Lost gross revenue to SFPUC due to delays: \$3k Further design delays will impact the project construction budget and timeline.	No impacts update.
38	114315107	4235 19th Street - Harvey Milk Civil Rights Academy	8	SFUSD	Upgrading and relocating existing secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward at low-side metering. (See Note 1)	PG&E reviewing application.	2/12/2018		9/1/19	Yes	300 kW/Yes	X	Project delayed - project was in dispute from Feb. 2018 - Jun. 2018. (3-4 months). Safety improvements and the construction of a new building have been delayed as a result. Additional project costs - \$75k (interrupter, #7 box, & installation) Lost gross revenue to SFPUC due to delays: \$6k Further design delays will impact the project construction budget and timeline.	No impacts update.
39	114449998	600 32nd Avenue - George Washington High School	1	SFUSD	Upgrading and relocating existing secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward at low-side metering. (See Note 1)	PG&E reviewing application.	3/27/2018		9/1/18	Yes	500 kW/Yes	X	Project delayed - project was in dispute from Feb. 2018 - Jun. 2018. (3-4 months). Safety improvements and the construction of a new building have been delayed as a result. Additional project costs - \$75k (interrupter, #7 box, & installation) Lost gross revenue to SFPUC due to delays: \$6k Further design delays will impact the project construction budget and timeline.	No impacts update.

Attachment A: BOS Quarterly Report for May 2019

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
	PG&E NN#	Project Location	District #	Client Organization	Project Description	Project Status		Initial Application Submittal Date	App Deemed Complete Date	Initial Service Need Date	Did PG&E require Primary?	Load Size/Can Be Served at Secondary	PG&E committed to work w/ SF to energize in 2018	Impacts	Updates/Changes since Last Report (Jan. 2019)
40	114149145	1271 Treat Avenue - Garfield Pool	9	SFRPD	Relocating existing secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward at low-side metering. (See Note 1)	In construction	12/28/2017	8/17/2018	5/1/18	Yes	200 kW/Yes	X	Project delayed - project was in dispute from Jan. 2018 - May 2018. (3-4 months) Additional project costs - \$250k (interrupter, #7 box, transformer, main switchboard, installation, & trenching) This project is affected by 51 Havelock's delayed timeline as RPD does not want to have more than one pool closed at a time.	No impacts update. Project in construction.
41	114427596	950 Golden Gate Avenue - Margaret Hayward Park	3	SFRPD	Remove existing secondary services and replace with single secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward at low-side metering. (See Note 1)	In construction	3/15/2018	6/5/2018	8/1/18	Yes	100 kW/Yes	X	Project slightly delayed - project was in dispute from Mar. 2018 - May 2018. (2-3 months) Additional project costs - \$75k (interrupter, #7 box, & installation) Potential further delays as project team is waiting on temporary construction power from PG&E.	Potential further delays as project is waiting on PG&E for temporary construction power (application submitted in Nov. 2018).
42		199 Museum Way/122 State Street - Corona Heights Restroom	5	SFRPD	Return service to a bathroom that was de-energized unknowingly	PG&E accidentally cut the cable to a restroom during construction of Randall Museum.	In construction	N/A	N/A	N/A	N/A	N/A		The bathroom has been out of power for over a year. Re-energization of the bathroom is still TBD.	No impacts update.
43	110162018	750 Phelps - Southeast Plant	10	SFPUC-Wastewater	New primary service	Potential delay as PG&E is late in providing SIS agreement.	Application deemed complete. PG&E is drafting the System Impact Study Agreement.	IN FLIGHT (Prior to July 2015)	7/14/2018	5/20/2020	N/A	12000 kW/no		If delays continue and jeopardize the project energization date, the project team will incur a liquidated damage amount of \$3000/day.	Further delays as SF is still waiting for PG&E to send draft SIS agreement (WDT timelines allow PG&E 30 days to provide draft SIS after application is deemed complete - draft SIS should have been received by 8/13/18).
44	114727202	1595 Davidson - Bruce Flynn Pump Station	10	SFPUC-Wastewater	New primary service	Potential delay as PG&E was late in providing Work Performance Agreement.	In construction	6/14/2018	7/16/2018	5/1/2019	N/A	2813 kW/Yes		Potential risk of delay - no impacts to report.	No impacts update. Project is in construction.
45	112434155	3133 Van Ness Ave. - SFMTA Restroom	2	SFMTA	New secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward at low-side metering. (See Note 1)	Energized	12/2/2016	4/14/2017	6/1/17	Yes	24 kW/Yes		Project delayed - project was in dispute from Jan. 2017 - Mar. 2017. (2-3 months). The opening of a single-use bathroom for SFMTA drivers was delayed as a result.	Project is energized and will be removed from the list next report.
46	115148446	3001-3021 24th St. - Affordable Housing (44 units)	9	Mercy Housing	New secondary service	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Project is at a standstill.	11/1/2018		9/1/20	Yes	362 kW/Yes		Project delayed - project has been in dispute since Nov. 2018 (5-6 months). If required, primary switchgear would take the space of either on-site supportive services or a community room and cost the project an additional \$500k.	No impacts update.
47	115047431/15322749	4545 Anza - Lafayette Elementary	1	SFUSD	New temporary service for interim trailers and upgrading existing secondary service	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Project is at a standstill.	10/9/2018		7/1/19	Yes	110 kW(temp) & 150 kW (perm)/Yes		Project delayed - project has been in dispute since Oct. 2018 (6-7 months). If required, primary switchgear will take the place of outdoor education space that is required by the state and cost the project an additional \$500k. Temp. power service for classroom trailers will be served by PG&E at retail - \$14k in lost gross revenue to SFPUC. \$31k in additional power costs to the project due to PG&E's higher rates. 50,000 lbs. of CO2 emissions (temporary period of 17 months)	No impacts update.
48	115415116	1550 Evans Ave. - Southeast Community Center	10	SFPUC	Relocation and upgrade of existing secondary service	Delays caused by dispute over primary vs. secondary. Project is moving forward with primary service.	PG&E reviewing application.	11/26/2018		1/4/21	Yes	800 kW/Yes		Project delayed - project has been in dispute since Dec. 2018 (4-5 months). Added costs for primary equipment - \$500k	Due to the urgency of this project, SF has decided to move forward with primary (and incur costs associated) to avoid more delays.
49		102 Marina Blvd. - Fort Mason (EVGo)	2	EVGo	New secondary service	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Project is at a standstill.	12/13/2018		7/15/19	Yes	600 kW/Yes		Project delayed - project has been in dispute since Dec. 2018 (4-5 months). If required, primary switchgear would cost the project an additional \$500k.	No impacts update.
50		10501 Warnerville Road - Substation Rehabilitation Project	N/A - Oakdale	SFPUC	Remove two existing services and replace with one secondary service	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Project is at a standstill.	12/26/2018		3/1/19	Yes	160 kW/Yes		Project delayed - project has been in dispute since Jan. 2019 (3-4 months). If required, primary switchgear would cost the project an additional \$500k.	No impacts update.
51	114408260	684 23rd Street - Potrero North	10	SFPUC	New primary service	Delays caused by PG&E cancelling the application.	Project is at a standstill.	3/12/2018		10/1/18	N/A	12,000 kW/No		Project delayed - PG&E denied this service request citing inadequate capacity and cancelled the application.	No impacts update - PG&E refuses to provide service.
52	114408263	638 23rd Street - Potrero South	10	SFPUC	New primary service	Delays caused by PG&E cancelling the application.	Project is at a standstill.	3/12/2018		10/1/18	N/A	12,000 kW/No		Project delayed - PG&E denied this service request citing inadequate capacity and cancelled the application.	No impacts update - PG&E refuses to provide service.
53		16th & Terry Francois Blvd. - Mission Bay Ferry Landing	6	SFPORT	New secondary service	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Project is at a standstill.	6/30/2019		1/3/20	Yes	100 kW/Yes		Project delayed - project has been in dispute since Jan. 2019 (3-4 months). If required, primary switchgear would cost the project an additional \$500k.	No impacts update.
54	113773996	1419 Bryant Street - Animal Care & Control	9	SFACC	New secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward with primary.	Engineering estimation by PG&E.	10/25/2017		9/1/19	Yes	818 kW/Yes		Added costs for primary equipment - \$500k Additional construction costs - \$328k Costs of redesign - \$23k	Project added.

Attachment A: BOS Quarterly Report for May 2019

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
	PG&E NN#	Project Location	District #	Client Organization	Project Description	Project Status		Initial Application Submittal Date	App Deemed Complete Date	Initial Service Need Date	Did PG&E require Primary?	Load Size/Can Be Served at Secondary	PG&E committed to work w/ SF to energize in 2018	Impacts	Updates/Changes since Last Report (Jan. 2019)
55		681 Florida Street - Affordable Housing	9	MEDA	New secondary service	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Project is at a standstill.	2/6/2019		8/3/20	Yes	785 kW/Yes		Project delayed - project has been in dispute since Feb. 2019 (1-2 months). If required, primary switchgear would cost the project an additional \$500k.	Project added.
56	115071498	500 Turk Street - Affordable Housing	6	TNDC	New secondary service	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Project is at a standstill.	10/15/2018		7/1/20	Yes	890 kW/Yes		Project delayed - project has been in dispute since Nov. 2018 (5-6 months). If required, primary switchgear would cost the project an additional \$500k. Temp. construction power service by PG&E at retail - \$402k in lost gross revenue to SFPUC. \$9k in additional power costs to the project due to PG&E's higher rates. 643,000 lbs. of CO2 emissions (construction period of XX months)	Project added.
57		399 The Embarcadero - Fire Boat #35	6	SFFD	New secondary service	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Project is at a standstill.	1/14/2019		12/27/19	Yes	430 kW/Yes		Project delayed - project has been in dispute since Jan. 2019 (2-3 months). If required, primary switchgear would cost the project an additional \$500k.	Project added.
58		2685 Ocean Ave. - EV Charging Station	7	SFMTA & EVGo	New secondary service	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Project is at a standstill.	2/4/2019		7/22/19	Yes	600 kW/Yes		Project delayed - project has been in dispute since Feb. 2019 (1-2 months). If required, primary switchgear would cost the project an additional \$500k.	Project added.
59	114448421	6527 Calaveras Road - Oliver De Silva	N/A - Sunol	SFPUC	Service Transfer	Parties are in disagreement.	Energized - SF and PG&E discussing issues regarding Reserved Capacity.	3/23/2018	N/A	7/18/18	N/A	10,000 kW/No		PG&E is reducing the service from 10 MW to 1MW, even though 10 MW was agreed upon when the service was transferred. This may result in additional costs the City and hinders the customer's ability to grow its load.	Project added.
60		1064 Mission St. - Affordable Housing	6	Mercy Housing	New secondary service	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Project is at a standstill.	3/28/2019		4/1/21	Yes	678 kW/Yes		Project delayed - project has been in dispute since Feb. 2019 (1-2 months). If required, primary switchgear would cost the project an additional \$500k.	Project added.
61		Islais Creek Bridge Rehab (3rd Street)	10	SFPW	New secondary service	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Project is at a standstill.	4/2/2019		5/1/21	Yes	104 kW/Yes		Project delayed - project has been in dispute since Mar. 2019 (1-2 months). If required, primary switchgear would cost the project an additional \$500k.	Project added.

Notes:

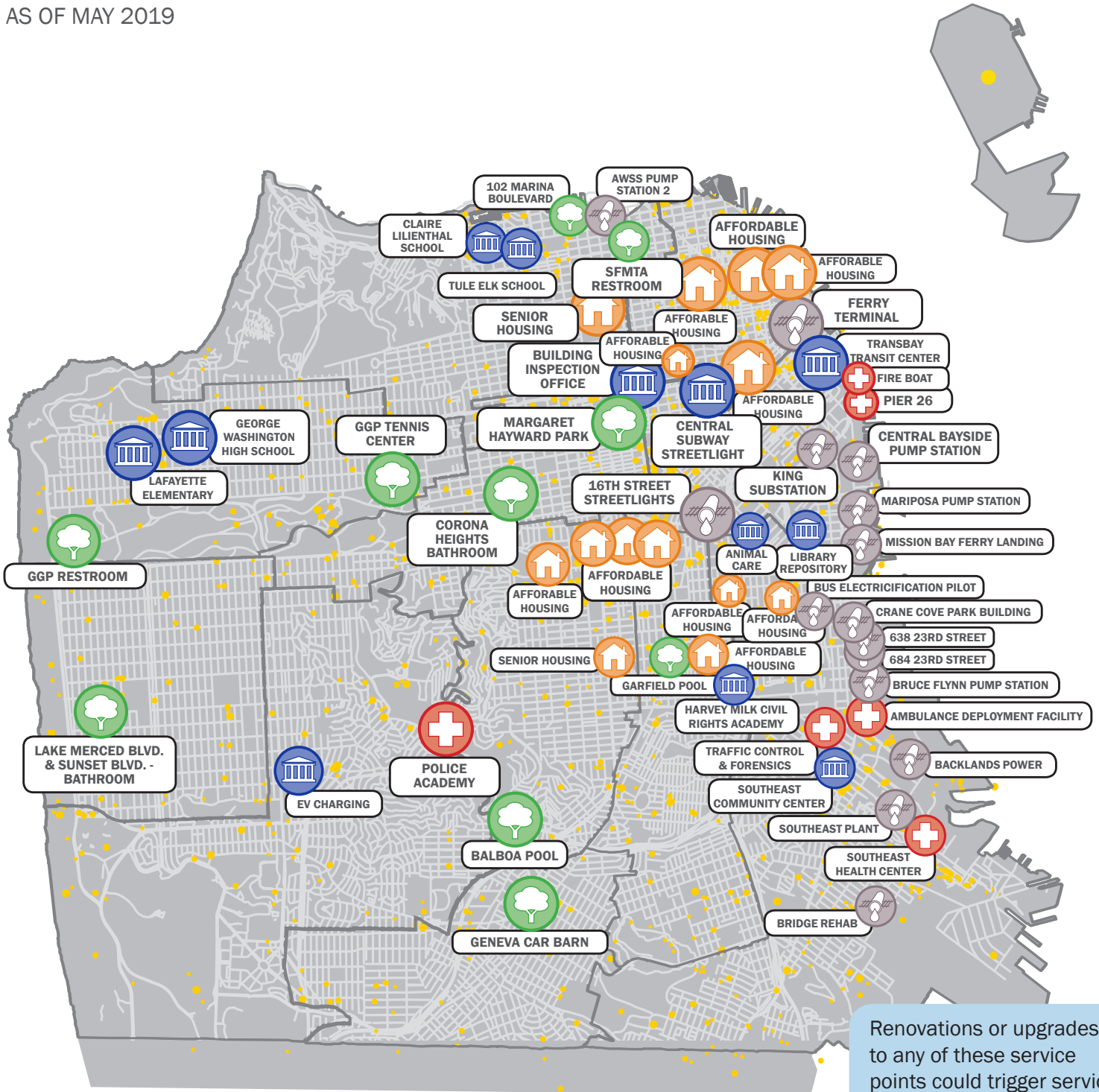
1. Low-side metering is not the same as secondary service. Low-side metering requires extra equipment costs (i.e. an interrupter, approx \$75k). The SFPUC believes that many of these loads should be served with secondary service, but has compromised with PG&E to move projects forward.
2. Cost impacts related to lost revenue are estimates calculated off of projected load values.
3. Not all cost impacts are reflected here as increased facility and construction costs are still to be determined.
3. CO₂ emissions are calculated using estimated loads with PG&E's 2016 emissions factor.
4. Delay impacts are only calculated off of the time in which PG&E and SF were in dispute. (Other delays are not included)
5. Primary switchgear is estimated to cost an additional \$500k.

Key

- Project is currently being disputed or has been delayed due to a dispute/issue and is past the Initial Service Need Date (Column K).
- Energized, but still facing issues.
- Project is moving forward, but not yet energized. Some are still facing major delays. Please review the impact column for further descriptions.
- Project has been energized - no outstanding issues.

ATTACHMENT B – MAP OF INTERCONNECTION ISSUES

AS OF MAY 2019



HOUSING



INFRASTRUCTURE



HEALTH
AND SAFETY



INSTITUTION



RECREATION



SFPUC METERED
SERVICE POINT

Attachment C: Cost Impacts

A	B	C	D	E	F	G	H	I	J
	Additional Costs to Project							Other Impacts to SF	
Project Location	Redesign Costs	Primary or Secondary Metering Equipment Costs	Additional Construction Costs	Additional Costs to Project for PG&E retail service	Additional Const./Project Mgmt Costs Due to Delay	Additional Staff Time Costs	Total Additional Project Costs (B+C+D+E+F+G)	Lost gross revenue to SFPUC	CO2 Emissions (lbs) from PG&E retail service
1 1950 Mission Street - Affordable Housing	\$ 45,000	\$ 75,000		\$ 81,000	\$ 390,000		\$ 591,000	\$ 294,000	623,000
2 490 South Van Ness Avenue - Affordable Housing	\$ 15,000			\$ 43,000	\$ 273,000		\$ 331,000	\$ 145,000	1,034,000
3 1990 Folsom Street - Affordable Housing	\$ 2,000			\$ 29,000			\$ 31,000	\$ 563,000	927,000
4 2060 Folsom Street - Affordable Housing	\$ 2,000			\$ 8,000			\$ 10,000	\$ 581,000	922,000
5 2 Rankin Street - Central Bayside Pump Station							\$ -		
6 2401 Keith Street - Southeast Health Center							\$ -		
7 2110 Greenwich Street - Tule Elk Elementary							\$ -		
8 51 Havelock Street - Balboa Pool	\$ 20,000		\$ 670,000		\$ 500,000		\$ 1,190,000	\$ 14,000	
9 1995 Evans - Traffic Controls and Forensics							\$ -		
10 Stockton btwn Ellis & O'Farrell - Central Subway Streetlight Reinstallation							\$ -		
11 1909 16th Street - Streetlights							\$ -		
12 Transbay Transit Center - Transbay Joint Powers Authority							\$ -		
13 Multiple Locations - Guy Wires (Franchise Issue)							\$ -		
14 Lake Merced Blvd & Sunset Blvd - Restroom							\$ -		
15 50 Bowling Green Drive - GGP Tennis Center		\$ 75,000					\$ 75,000	\$ 1,000	
16 1001 22nd Street - Bus Electrification Pilot							\$ -		
17 49 South Van Ness Avenue - Building Inspection Office							\$ -		
18 1296 Shotwell Street - Affordable Senior Housing		\$ 75,000					\$ 75,000		
19 88 Broadway - Affordable Housing				\$ 79,000			\$ 79,000	\$ 618,000	1,090,000
20 735 Davis - Affordable Housing				\$ 18,000			\$ 18,000	\$ 335,000	554,000
21 838 Pacific Avenue - Ping Yuen North Affordable Housing					\$ 240,000		\$ 240,000	\$ 186,000	
22 350 Ellis Street - Affordable Housing							\$ -	\$ 110,000	
23 2451 Sacramento Street - JFK Towers Affordable Housing							\$ -	\$ 15,000	
24 16th & Terry Francois Blvd. - Mission Bay Ferry Landing	\$ 30,000					\$ 70,000	\$ 100,000		
25 Ferry Terminal	\$ 32,000	\$ 75,000				\$ 96,000	\$ 203,000		
26 2241 Jerrold Avenue - Ambulance Deployment Facility	\$ 100,000	\$ 75,000			\$ 250,000	\$ 100,000	\$ 525,000	\$ 110,000	
27 Pier 26 - Fire Boat Berthing							\$ -		
28 800 Amador Street - Pier 94 - Backlands	\$ 50,000	\$ 500,000				\$ 50,000	\$ 600,000		
29 801 Illinois Street - Crane Cove Park Building	\$ 75,000					\$ 50,000	\$ 125,000		
30 2301 San Jose Avenue - Geneva Car Barn	\$ 5,000	\$ 75,000				\$ 15,000	\$ 95,000	\$ 13,000	
31 45th & Lincoln - Restroom for Golden Gate Boat Park							\$ -		
32 6 Berry Street - Substation					\$ 5,000		\$ 5,000		
33 3455 Van Ness Avenue - AWSS Pump Station No. 2							\$ -		
34 750 Brannan - Main Library Repository							\$ -		
35 Illinois St. & Terry Francois - Mariposa Pump Station				\$ 22,000			\$ 22,000	\$ 588,000	554,000
36 350 Amber Drive - Police Academy		\$ 75,000					\$ 75,000	\$ 18,000	
37 3630 Divisadero - Claire Lilenthal School		\$ 75,000					\$ 75,000	\$ 3,000	
38 4235 19th Street - Harvey Milk Civil Rights Academy		\$ 75,000					\$ 75,000	\$ 6,000	
39 600 32nd Avenue - George Washington High School		\$ 75,000					\$ 75,000	\$ 6,000	
40 1271 Treat Avenue - Garfield Pool		\$ 250,000					\$ 250,000		
41 950 Golden Gate Avenue - Margaret Hayward Park		\$ 75,000					\$ 75,000		
42 199 Museum Way/122 State Street - Corona Heights Restroom							\$ -		
43 750 Phelps - Southeast Plant							\$ -		
44 1595 Davidson - Bruce Flynn Pump Station							\$ -		
45 3133 Van Ness Ave. - SFMTA Restroom							\$ -		

Attachment C: Cost Impacts

A	B	C	D	E	F	G	H	I	J
Project Location	Additional Costs to Project							Other Impacts to SF	
	Redesign Costs	Primary or Secondary Metering Equipment Costs	Additional Construction Costs	Additional Costs to Project for PG&E retail service	Additional Const./Project Mgmt Costs Due to Delay	Additional Staff Time Costs	Total Additional Project Costs (B+C+D+E+F+G)	Lost gross revenue to SFPUC	CO2 Emissions (lbs) from PG&E retail service
46 3001-3021 24th Street - Affordable Housing							\$ -		
47 4545 Anza - Lafayette Elementary				\$ 31,000			\$ 31,000	\$ 14,000	50,000
48 1550 Evans Ave - Southeast Community Center		\$ 500,000					\$ 500,000		
49 102 Marina Boulevard - For Mason (EVGo)							\$ -		
50 10501 Warnerville Road - Substation Rehabilitation Project							\$ -		
51 684 23rd Street - Potrero North							\$ -		
52 638 23rd Street - Potrero South							\$ -		
53 16th & Terry Francois Blvd. - Mission Bay Ferry Landing							\$ -		
54 1419 Bryant Street - Animal Care & Control	\$ 23,000	\$ 500,000	\$ 328,000				\$ 851,000		
55 681 Florida Street - Affordable Housing							\$ -		
56 500 Turk Street - Affordable Housing				\$ 9,000			\$ 9,000	\$ 402,000	643,000
57 399 The Embarcadero - Fire Boat #35							\$ -		
58 2685 Ocean Ave. - EV Charging Station							\$ -		
59 6527 Calaveras Road - Oliver De Silva							\$ -		
60 1064 Mission Street - Affordable Housing							\$ -		
61 Islais Creek Bridge Rehab (3rd Street)							\$ -		
TOTAL	\$ 399,000	\$ 2,575,000	\$ 998,000	\$ 320,000	\$ 1,658,000	\$ 381,000	\$ 6,331,000	\$ 3,620,000	5,754,000

Total Additional Project Costs	\$ 6,331,000.00
Total Lost Gross Revenue to SFPUC	\$ 3,620,000.00
Total Cost Impact to SF (Project Costs + Lost Revenue)	\$ 9,951,000.00
Total CO2 Emissions (lbs.)	5,754,000

Note: These represent estimates of the costs that the City is aware of at at the moment. The projects may incur additional costs going forward. The projects in **RED** are projects that are currently at a standstill and will face financial impacts that are TBD depending on how long they will be delayed and how they will move forward.