



July 26, 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, the Public Safety and Neighborhood Services Committee held a hearing 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 fourth 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 (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

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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.



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).

Since PG&E's filing for bankruptcy January 29, 2019, however, PG&E has become increasingly uncooperative and has denied the City's applications for secondary metering. PG&E has threatened to cancel applications for low-side metering, described in further detail below, which the SFPUC is actively protesting.

#### **DELAYED PROJECTS:**

There are 57 projects that have experienced interconnection delays, arbitrary requests or increased project costs for the reporting period of May 18 through July 26, 2019, as listed in **Attachment A**. This is a result of PG&E requirements that are unnecessary for safe and reliable distribution service. Since the previous quarterly report on the status of projects through May 17, 2019, 3 new projects have been added and 2 projects have been energized. Of the 3 new projects, 2 are at a standstill due to PG&E requiring primary service.

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.

The total cost impacts to the City are estimated to be more than \$9.5 million. **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). Total costs do not include estimated costs for projects that are at a standstill as those costs are still to be determined. Attachment C also details 6,347,000 pounds of potential CO<sub>2</sub> emissions resulting from projects receiving PG&E retail service to avoid delays.

#### **NEW INTERCONNECTION ISSUES:**

PG&E has initiated new practices that are unfair and unfounded, causing additional delays and even greater increased costs to City projects.

*PG&E Will Cancel City Projects:* PG&E has formally given notice to the SFPUC that eight projects will be cancelled if the SFPUC does not provide updated applications that meet PG&E's primary service requirement. The City continues to disagree with PG&E that these projects require primary service and is actively disputing the cancellation notice. Three of these applications pertain to affordable housing developments.

*Additional Arbitrary Standards:* Recently, the City has received unexpected design changes and requirements from PG&E, which PG&E claims are due to “new standards.” PG&E is also citing “new standards” as the reason for making new demands that the City pay for upgrades to PG&E’s system that serve other PG&E customers. The City disagrees with PG&E that the City should bear these costs alone as other PG&E customers will benefit from the upgraded system. SFPUC has requested additional information about these standards, but PG&E has not provided any supporting documentation or citations to its adopted service requirements or tariffs that justify what PG&E is requiring of the City.

*New Requirements for Unnecessary Equipment:* PG&E has previously approved plans for the City to use low-side metering at a number of affordable housing projects that PG&E insisted must be served at primary. For several of those projects that are yet to be interconnected, PG&E is now requiring the City to pay for and install an extra piece of equipment (a second interrupter) that is not only unnecessary but it could also decrease reliability as it introduces another point of failure.

*Requirements Contrary to Settlement Agreement:* PG&E has also started requiring a System Impact Study for loads connected to its network regardless of the size of the load. This is contrary to the terms of the settlement agreement the City reached with PG&E that is discussed below.

#### **STATUS OF DISPUTES WITH PG&E BEFORE FERC:**

The City and PG&E filed a partial settlement with the Federal Energy Regulatory Commission (FERC) on December 14, 2018 to resolve certain procedural and technical disputes the City raised in ten protests the City filed with FERC in 2017 and 2018. On June 20, 2019, the Commission approved the settlement. Some issues in the protest that were not completely resolved by the settlement have been assigned to a FERC trial judge for additional review. One of the issues in that proceeding is whether PG&E is wrongfully charging the City for upgrades to its system. The City is also waiting for a FERC decision on the City’s 2014 complaint and related cases that were litigated in 2016.

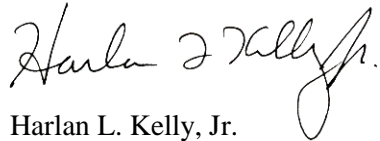
The City filed a second complaint against PG&E with FERC on January 28, 2019 to address PG&E’s demand for primary service for small facilities. PG&E asserted that any action on the complaint was stayed by the bankruptcy. On April 18, 2019, the City filed a motion in the PG&E bankruptcy case asking the court to grant relief from the stay and allow the City’s complaint to proceed. The court granted the City’s motion on May 9, 2019. On May 29, 2019, PG&E filed a response to the City’s complaint and asked FERC to dismiss the City’s complaint. On June 14, 2019, the City filed reply to PG&E’s motion. On July 18, 2019, the City filed a supplement to the complaint in which the City noted that recently PG&E has refused to discuss any alternative arrangements that would allow projects to move forward. We are awaiting an order from FERC on next steps.

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 July 2019
- **Attachment B:** Map of projects with PG&E power connection delays as of July 2019
- **Attachment C:** Cost impacts

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

Sincerely,

A handwritten signature in black ink that reads "Harlan L. Kelly, Jr." with a stylized flourish at the end.

Harlan L. Kelly, Jr.  
General Manager

**Attachment A: BOS Quarterly Report for July 2019**

	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 (May. 2019)	
1	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)	Engineering estimation by PG&E.	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.
2	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 (8-9 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)	Delay continues. PG&E has refused to provide low-side metering. PG&E states that it will cancel this application if SF does not provide primary service documentation by 7/31/19. SF is protesting this.
3	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)	PG&E and SF discussing costs in Service Agreement.	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.	Further delays are incurred as PG&E is requiring SF to pay for distribution system upgrades. SF disagrees with the liability/cost placement of PG&E upgrades that benefit other PG&E customers.
4	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. Project is being scheduled for energization.
5	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 (11-12 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 refused to provide low-side metering and states that it will cancel this application if SF does not provide primary service documentation by 7/31/19. SF is protesting this.
6	PG&E withholding NN#	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 (6-7 months). If required, primary switchgear would cost the project an additional \$500k.	No impacts update.
7	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)	Energized	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. Service was energized in May 2019.
8	111772188	Ferry Terminal	3	SFPUC for WETA	New secondary service	Delays caused by dispute over primary vs. secondary. Project moving forward at low-side metering. (See Note 1)	Service point proposed by PG&E is far from the project site and presents logistical challenges for trenching. SF is waiting for PG&E to provide Service Agreement.	7/5/2016	6/20/2018	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 later)	Further delays caused by PG&E not providing the Service Agreement on time.
9	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	8/1/2018	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.	No impacts update. Project in construction.
10	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 CO2 emissions (construction period of 18 months)	No impacts update. Further delays caused by PG&E not providing the Service Agreement on time.
11	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 CO2 emissions (construction period of 19 months)	No impacts update. Further delays caused by PG&E not providing the Service Agreement on time.
12		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.
13	114088011	Lake Merced Blvd & Sunset Blvd - Restroom	4	SFRPD	New secondary service	Delays caused by dispute over primary vs. secondary.	SF is updating application.	12/8/2017		1/15/2019	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.

**Attachment A: BOS Quarterly Report for July 2019**

	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 (May. 2019)
14	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.
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	2/1/2019	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), \$250k (rough estimate for upgrades to PG&E's system) Lost gross revenue to SFPUC due to delays: \$1k	Further delays are incurred as PG&E is requiring SF to pay for distribution system upgrades. SF disagrees with the liability/cost placement of PG&E upgrades that benefit other PG&E customers.
16		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.	Energized	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. Project is energized.
17	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 is being scheduled for energization.
18	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.
19	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.
20	PG&E withholding NN#	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 (5-6 months). If required, primary switchgear would cost the project an additional \$500k.	Delay continues. PG&E has refused to provide low-side metering. PG&E states that it will cancel this application if SF does not provide primary service documentation by 7/31/19. SF is protesting this.
21	PG&E withholding NN#	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. Additional staff time for Port - \$70k (from original application that was cancelled) Costs of redesign - \$30k (from original application that was cancelled)	Delay continues.
22	115071498	500 Turk Street - Affordable Housing (108 units)	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 (8-9 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)	Delay continues. PG&E has refused to provide low-side metering. PG&E states that it will cancel this application if SF does not provide primary service documentation by 7/31/19. SF is protesting this.
23	116790877	Market St. & 7th St - BMS Switch	6	SFMTA	New secondary service	Delays caused by PG&E not following WDT timelines	PG&E reviewing application.	3/6/2019	4/9/2019	1/4/21	No	48 kW/Yes	Project delayed - PG&E is late in providing the service agreement and is requiring a System Impact Study (SIS). SIS reports are normally only required for loads over 500 kW.	Project added.
24	PG&E withholding NN#	1064 Mission St. - Affordable Housing (256 units)	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 (4-5 months). If required, primary switchgear would cost the project an additional \$500k.	Delay continues.
25		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".
26	PG&E withholding NN#	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 (4-5 months). If required, primary switchgear would cost the project an additional \$500k.	Delay continues. PG&E has refused to provide low-side metering. PG&E states that it will cancel this application if SF does not provide primary service documentation by 7/31/19. SF is protesting this.
27	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.
28	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	7/12/2019	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. Further delays caused by PG&E not deeming the application complete on time.
29	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 being scheduled for energization.

Attachment A: BOS Quarterly Report for July 2019

	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 (May. 2019)	
30	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	5/1/2018	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.
31	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.	Service Agreement issued 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	No impacts update.
32	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 returned to PG&E w/ payment.	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) PG&E retail temporary power for construction was also delayed by a few months. 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 - \$150k (2 interrupters, 2 #7 boxes, & installation) 623,000 lbs. of CO <sub>2</sub> emissions (construction period of 18 months) <del>Generator costs (for temporary construction power)- \$390k</del>	PG&E retail temporary power has been energized. An additional interrupter (\$75k) was required by PG&E late in the process. SF does not agree that this equipment is necessary.
33	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)	Service Agreement (SA) issued by PG&E. SF waiting for clarification on SA questions.	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 <sub>2</sub> emissions (construction period of 16 months) 740,000 lbs of CO <sub>2</sub> emissions from four months of generator use. Additional project costs - \$150k (2 interrupters, 2 #7 boxes, & installation) Generator costs - \$273k for fuel for first four months (if continues will be another \$50k/month)	PG&E retail temporary power has been energized. An additional interrupter (\$75k) was required by PG&E late in the process. SF does not agree that this equipment is necessary.
34	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)	Service Agreement (SA) issued by PG&E. SF waiting for clarification on SA questions.	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. Additional project costs - \$150k (2 interrupters, 2 #7 boxes, & installation) 922,000 lbs. of CO <sub>2</sub> emissions (construction period of 22 months)	An additional interrupter (\$75k) was required by PG&E late in the process. SF does not agree that this equipment is necessary.
35	PG&E withholding NN#	681 Florida Street - Affordable Housing (131 units)	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 (4-5 months). If required, primary switchgear would cost the project an additional \$500k.	Delay continues. PG&E has refused to provide low-side metering. PG&E states that it will cancel this application if SF does not provide primary service documentation by 7/31/19. SF is protesting this.
36	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)	Service Agreement (SA) issued by PG&E. SF waiting for clarification on SA questions.	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. Additional project costs - \$150k (2 interrupters, 2 #7 boxes, & installation) 927,000 lbs. of CO <sub>2</sub> emissions (construction period of 22 months)	An additional interrupter (\$75k) was required by PG&E late in the process. SF does not agree that this equipment is necessary.
37	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 (7-8 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.	Delay continues. PG&E has refused to provide low-side metering. PG&E states that it will cancel this application if SF does not provide primary service documentation by 7/31/19. SF is protesting this.
38	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, but issues remain on land rights. PG&E is requiring an easement, but the Port has not provided easements in the past for similar service requests. The Port has offered an encroachment permit instead.	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.
39	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 July 2019

	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 (May. 2019)
40	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.
41	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.
42	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.
43	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.
44	114713787	1001 22nd Street - Bus Electrification Pilot	10	SFMTA	New primary service	Project is moving forward.	SF reviewing System Impact Study report from PG&E.	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.	No impacts update.
45	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 and re-energization has been scheduled.
46	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.	Facility Study draft agreement issued by PG&E.	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 incurred more delays as SF PG&E was late in providing the Facility Study draft agreement. Service need date is jeopardized.	No impacts update.
47	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 (11-12 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.
48	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 Facility 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 Facility Study (FS) agreement (WDT timelines allow PG&E 30 days to provide draft FS after application is deemed complete - draft FS should have been received by 8/13/18). PG&E has also been late in responding to franchise requests at this site.
49	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 (13-14 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 refused to provide low-side metering and states that it will cancel this application if SF does not provide primary service documentation by 7/31/19. SF is protesting this.
50	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 was in dispute from Dec. 2018 - (4-5 months). Added costs for primary equipment - \$500k	No impacts update.
51	PG&E withholding NN#	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 (5-6 months). If required, primary switchgear would cost the project an additional \$500k.	Delay continues.
52	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	9/20/2017	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 - \$140k (interrupter, #7 box, & installation) Lost gross revenue to SFPUC due to delays: \$13k Additional Staff Time for SFRPD: \$15k	Additional project costs updated to reflect actual costs instead of rough estimate (\$50k for interrupter and \$90k for #7 box and installation).
53		Multiple Locations - Guy Wires (Franchise Issue)	N/A	SFMTA, SFPW, & SFPUC	PG&E's guy wires are impeding on SF projects.	Franchise dispute	Project is moving forward.	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 for two of the requests. SF and PG&E will continue to work together to get these resolved.
54	115675911	2445 Hyde St. - Francisco Park	N/A	SFRPD	New secondary service	Delays caused by dispute over primary vs. secondary. Project is still in dispute.	Project is at a standstill.	1/9/2019	6/6/2019	12/27/2019	Yes	70 kW/Yes	Project delayed - project has been in dispute since Jun. 2019 (1-2 months). If required, primary switchgear would cost the project an additional \$500k.	Project added.



**Attachment A: BOS Quarterly Report for July 2019**

	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 (May. 2019)
55	N/A	Multiple Service Transfers	N/A	Various City Depts.	Service Transfers	Delays caused by PG&E requiring unnecessary equipment or information for service transfer requests.							Additional costs and staff resources can be incurred if PG&E continues to create barriers for SF service transfer requests. SF continues to experience loss of revenue and increased greenhouse gas emissions as PG&E is refusing to transfer over City department loads.	Project added.
56	PG&E withholding NN#	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.	12/26/2018		3/1/19	Yes	160 kW/Yes		Project delayed - project was been in dispute from Jan.- May 2019 (4 -5 months).	Project will now be served by PG&E retail service to avoid delays. Cost impacts and greenhouse gas emission impacts are TBD.
57	114448421	6527 Calaveras Road - Oliver De Silva	N/A - Sunol	SFPUC	Service Transfer	Parties are in disagreement.	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.	No impacts update. SF is waiting for PG&E's response to letter.

Notes:

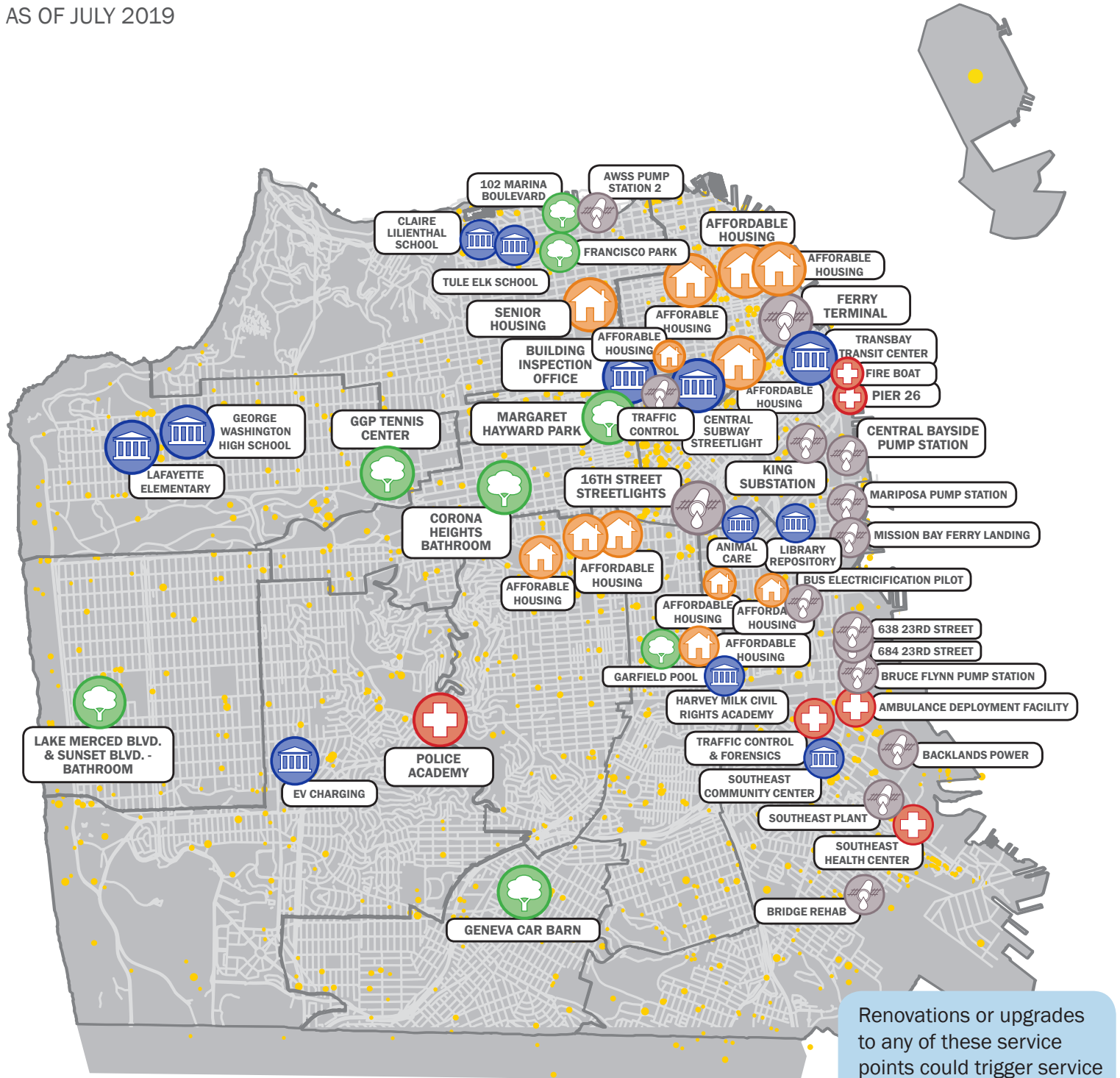
1. Low-side metering is not the same as secondary service. Low-side metering requires extra equipment costs (i.e. an interrupter, approx \$75k). The SFPUC believes that many of these loads should be served with secondary service, but has compromised with PG&E to move projects forward.
2. Cost impacts 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. CO<sub>2</sub> 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 JULY 2019



Renovations or upgrades to any of these service points could trigger service disputes and delays.



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
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
1 600 32nd Avenue - George Washington High School		\$ 75,000					\$ 75,000	\$ 6,000	
2 4545 Anza - Lafayette Elementary				\$ 31,000			\$ 31,000	\$ 14,000	50,000
3 3455 Van Ness Avenue - AWSS Pump Station No. 2							\$ -		
4 3630 Divisadero - Claire Lilenthal School		\$ 75,000					\$ 75,000	\$ 3,000	
5 2110 Greenwich Street - Tule Elk Elementary							\$ -		
6 102 Marina Boulevard - Fort Mason (EVGo)							\$ -		
7 838 Pacific Avenue - Ping Yuen North Affordable Housing					\$ 240,000		\$ 240,000	\$ 186,000	
8 Ferry Terminal	\$ 32,000	\$ 75,000				\$ 96,000	\$ 203,000		
9 950 Golden Gate Avenue - Margaret Hayward Park		\$ 75,000					\$ 75,000		
10 88 Broadway - Affordable Housing				\$ 79,000			\$ 79,000	\$ 618,000	1,090,000
11 735 Davis - Affordable Housing				\$ 18,000			\$ 18,000	\$ 335,000	554,000
12 Stockton btwn Ellis & O'Farrell - Central Subway Streetlight Reinstallation							\$ -		
13 Lake Merced Blvd & Sunset Blvd - Restroom							\$ -		
14 49 South Van Ness Avenue - Building Inspection Office							\$ -		
15 50 Bowling Green Drive - GGP Tennis Center		\$ 325,000					\$ 325,000	\$ 1,000	
16 199 Museum Way/122 State Street - Corona Heights Restroom							\$ -		
17 Pier 26 - Fire Boat Berthing							\$ -		
18 6 Berry Street - Substation					\$ 5,000		\$ 5,000		
19 750 Brannan - Main Library Repository							\$ -		
20 399 The Embarcadero - Fire Boat #35							\$ -		
21 16th & Terry Francois Blvd. - Mission Bay Ferry Landing	\$ 30,000					\$ 70,000	\$ 100,000		
22 500 Turk Street - Affordable Housing				\$ 9,000			\$ 9,000	\$ 402,000	643,000
23 Market St. & 7th St. - BMS Switch							\$ -		
24 1064 Mission Street - Affordable Housing							\$ -		
25 Transbay Transit Center - Transbay Joint Powers Authority							\$ -		
26 2685 Ocean Ave. - EV Charging Station							\$ -		
27 350 Amber Drive - Police Academy		\$ 75,000					\$ 75,000	\$ 18,000	
28 4235 19th Street - Harvey Milk Civil Rights Academy		\$ 75,000					\$ 75,000	\$ 6,000	
29 1296 Shotwell Street - Affordable Senior Housing		\$ 75,000					\$ 75,000		
30 1271 Treat Avenue - Garfield Pool		\$ 250,000					\$ 250,000		
31 1419 Bryant Street - Animal Care & Control	\$ 23,000	\$ 500,000	\$ 328,000				\$ 851,000		
32 1950 Mission Street - Affordable Housing	\$ 45,000	\$ 150,000		\$ 81,000	\$ 390,000		\$ 666,000	\$ 294,000	623,000
33 490 South Van Ness Avenue - Affordable Housing	\$ 15,000	\$ 150,000		\$ 43,000	\$ 273,000		\$ 481,000	\$ 145,000	1,034,000
34 2060 Folsom Street - Affordable Housing	\$ 2,000	\$ 150,000		\$ 8,000			\$ 160,000	\$ 581,000	922,000
35 681 Florida Street - Affordable Housing							\$ -		
36 1990 Folsom Street - Affordable Housing	\$ 2,000	\$ 150,000		\$ 29,000			\$ 181,000	\$ 563,000	927,000
37 3001-3021 24th Street - Affordable Housing							\$ -		
38 800 Amador Street - Pier 94 - Backlands	\$ 50,000	\$ 500,000				\$ 50,000	\$ 600,000		
39 2241 Jerrold Avenue - Ambulance Deployment Facility	\$ 100,000	\$ 75,000			\$ 250,000	\$ 100,000	\$ 525,000	\$ 110,000	

**Attachment C: Cost Impacts**

40	1909 16th Street - Streetlights							\$ -		
41	Illinois St. & Terry Francois - Mariposa Pump Station				\$ 22,000			\$ 22,000	\$ 588,000	554,000
42	684 23rd Street - Potrero North							\$ -		
43	638 23rd Street - Potrero South							\$ -		
44	1001 22nd Street - Bus Electrification Pilot							\$ -		
45	1595 Davidson - Bruce Flynn Pump Station							\$ -		
46	2 Rankin Street - Central Bayside Pump Station							\$ -		
47	1995 Evans - Traffic Controls and Forensics							\$ -		
48	750 Phelps - Southeast Plant							\$ -		
49	2401 Keith Street - Southeast Health Center							\$ -		
50	1550 Evans Ave - Southeast Community Center		\$ 500,000					\$ 500,000		
51	Islais Creek Bridge Rehab (3rd Street)							\$ -		
52	2301 San Jose Avenue - Geneva Car Barn	\$ 5,000	\$ 140,000			\$ 15,000	\$ 160,000	\$ 13,000		
53	Multiple Locations - Guy Wires (Franchise Issue)						\$ -			
54	2445 Hyde Street - Francisco Park						\$ -			
55	Multiple Service Transfers						\$ -			
56	10501 Warnerville Road - Substation Rehabilitation Project						\$ -			
57	6527 Calaveras Road - Oliver De Silva						\$ -			
<b>TOTAL</b>		<b>\$ 304,000</b>	<b>\$ 3,265,000</b>	<b>\$ 328,000</b>	<b>\$ 289,000</b>	<b>\$ 1,158,000</b>	<b>\$ 331,000</b>	<b>\$ 5,675,000</b>	<b>\$ 3,860,000</b>	<b>\$ 6,347,000</b>

<b>Total Additional Project Costs</b>	<b>\$ 5,675,000.00</b>
<b>Total Lost Gross Revenue to SFPUC</b>	<b>\$ 3,860,000.00</b>
<b>Total Cost Impact to SF (Project Costs + Lost Revenue)</b>	<b>\$ 9,535,000.00</b>
<b>Total CO2 Emissions (lbs.)</b>	<b>6,347,000</b>

**Note:** These represent estimates of the costs that the City is aware of 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.