

From: [Mike Keller](#)
To: [O'Connor, Kevin](#)
Cc: [Doug Boccignone](#); [Barry Flynn](#)
Subject: RE: Draft Response to PG&E Interconnection Application Request
Date: Tuesday, June 2, 2020 4:55:31 PM
Attachments: [CSJ Interconnection Application V5-1 MARKUP.pdf](#)
[CSJ Interconnection Application V6-1.pdf](#)

[External Email]

Kevin,

I've added Luisa's language to Attachment 1 in both the "markup" file and the "clean" file. I've not cc'ed everyone except Barry and Doug so you 3 had a chance to review the files before a wider distribution. Let me know if you would like any further changes.

Mike

From: O'Connor, Kevin <Kevin.Oconnor@sanjoseca.gov>
Sent: Tuesday, June 2, 2020 4:14 PM
To: Elkins, Luisa <Luisa.Elkins@sanjoseca.gov>; Doug Boccignone <dougboocc@flynnrci.com>
Cc: Barry Flynn <brflynn@flynnrci.com>; Mike Keller <mikekeller@flynnrci.com>; Mitchell, Lori <Lori.Mitchell@sanjoseca.gov>; Phan, Johnny <Johnny.Phan@sanjoseca.gov>; Sole, Jeanne <jeanne.sole@sanjoseca.gov>
Subject: RE: Draft Response to PG&E Interconnection Application Request

Thank you, Luisa. We will utilize this language for the application.

Kevin O'Connor
Energy Resilience Coordinator
City of San Jose Community Energy Department
Email: kevin.oconnor@sanjoseca.gov
Ph: (408) 535-8538

From: Elkins, Luisa
Sent: Tuesday, June 2, 2020 4:13 PM
To: O'Connor, Kevin <Kevin.Oconnor@sanjoseca.gov>; Doug Boccignone <dougboocc@flynnrci.com>
Cc: brflynn@flynnrci.com; Mike Keller <mikekeller@flynnrci.com>; Mitchell, Lori <Lori.Mitchell@sanjoseca.gov>; Phan, Johnny <Johnny.Phan@sanjoseca.gov>; Sole, Jeanne <jeanne.sole@sanjoseca.gov>
Subject: RE: Draft Response to PG&E Interconnection Application Request

Kevin,

I consulted with our outside counsel, and we have the following suggested edits (in red and green) for the language in Attachment 1 – Statement of Applicable Tariff and Eligibility:

This statement is not provided in the form of a legal opinion. San Jose is requesting service pursuant to the Pacific Gas & Electric Company Transmission Owner Tariff (TO Tariff) FERC Electric Tariff Volume No. 5. San Jose is an Eligible Customer **as defined in** PG&E TO Tariff Section 3.20 because it **is a municipality and** intends to be a utility that will **own or control electric facilities to deliver energy between the point of interconnection and its retail customers and will generate,** buy **and/or** sell energy into, out of, or through the California Independent System Operator Controlled Grid- ~~and San Jose~~ is eligible for interconnection consistent with the provisions of Section 210(a) of the Federal Power Act.

Please let me know if you have any questions.

Best,

Luisa

Luisa F. Elkins

Sr. Deputy City Attorney, City of San Jose
Office of the City Attorney
200 East Santa Clara Street, 16th Floor Tower
San Jose, CA 95113-1905
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From: O'Connor, Kevin
Sent: Thursday, May 21, 2020 12:48 PM
To: Doug Boccignone <dougbocc@flynnrci.com>
Cc: brflynn@flynnrci.com; Mike Keller <mikekeller@flynnrci.com>; Mitchell, Lori <Lori.Mitchell@sanjoseca.gov>; Elkins, Luisa <Luisa.Elkins@sanjoseca.gov>; Phan, Johnny <Johnny.Phan@sanjoseca.gov>; Sole, Jeanne <jeanne.sole@sanjoseca.gov>
Subject: FW: Draft Response to PG&E Interconnection Application Request

Thank you, Doug.

Per this email, I'm asking Luisa and Johnny from the City Attorney's Office for the following assistance:

Luisa, please review and advise on Attachment 1 – Statement of Applicable Tariff and Eligibility. Any other feedback you have would also be appreciated.

Johnny, please provide the attached file and additional requests from Doug below to Google for their review and input. I suspect we will fully discuss at one of our upcoming Energy Working Group meetings.

Let me know if you have any questions.

Thanks!

Kevin O'Connor
Energy Resilience Coordinator
City of San Jose Community Energy Department
Email: kevin.oconnor@sanjoseca.gov
Ph: (408) 535-8538

From: Doug Boccignone <dougbocc@flynnrci.com>
Sent: Thursday, May 21, 2020 9:51 AM
To: O'Connor, Kevin <Kevin.Oconnor@sanjoseca.gov>
Cc: Barry Flynn <brflynn@flynnrci.com>; Mike Keller <mikekeller@flynnrci.com>
Subject: Draft Response to PG&E Interconnection Application Request

[External Email]

Kevin,

Per our discussion Tuesday, attached is a draft response to PG&E's request for additional information related to San Jose's interconnection application. We suggest asking Google to review the draft responses, provide San Jose relevant information that Google already has provided to PG&E, and provide Google's suggestions each response. In particular,

1. Please review Attachment 2 to confirm it reflects Google's current plans for the locations of the undergrounded PG&E 115 kV lines, the City substation and the tap connections to the underground lines
2. Please review the description of type of load: summer or winter peaking, daily cycling, residential, commercial, (heavy, light) industrial, pump, dispatchable.
3. If Google has identified the Power Factor associated with the forecast 2026 and 2035 demands, please provide it.
4. Attachment 3 – Load Forecast. Please provide monthly demand and energy for 5 – 10 years.
5. Please review and comment on the response to the question about on-site generation, especially the amount of solar and whether to include storage and non-solar generation.

6. Please review and comment on Attachment 4 – General Arrangement
7. Please provide input re: pumping plants and industrial facilities, starting KVA and power factor of the largest motor or group of motors
8. Please review and comment on Attachment 5 – Single Line Diagram

Doug Boccignone
Principal
Flynn Resource Consultants Inc.
5440 Edgeview Drive
Discovery Bay, CA 94505
888-634-7509 (phone and fax)
dougbocc@flynnrci.com

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Markups per Kevin's email
of 6/1/2020 @ 5:13pm

INTERCONNECTION APPLICATION

Interconnection Applicant Information

Legal Name of Interconnection Applicant

Name: City of San Jose, California

Contact Person: Kevin O'Connor

Title: Deputy Director, Community Energy Dept.

Mailing Address: 200 E. Santa Clara St., Floor 14

City: San Jose State: CA ZIP: 95112

Business Telephone #: 408-535-8538 Cell #: _____

E-Mail Address: kevin.oconnor@sanjoseca.gov

Additional Contact Information

Contact Name: Lori Mitchell

Title: Director, Community Energy Dept.

Mailing Address: 200 E. Santa Clara St., Floor 14

City: San Jose State: CA ZIP: 95112

Business Telephone #: 408-535-4880 Cell #: _____

E-Mail Address: Lori.Mitchell@sanjoseca.gov

INTERCONNECTION APPLICATION

Interconnection Facility Information

Describe the FERC tariffs under which service is being requested.

Attachment 1 - Statement of Applicable Tariff & Eligibility

Describe Applicant's eligibility to apply for interconnection service under the tariffs identified.

Attachment 1 - Statement of Applicable Tariff & Eligibility

Specify proposed point of interconnection or site (with sufficient detail to locate point on a USGS map).

*Attachment 2 - Vaults near PG&E's Station A
on Otterson Street, San Jose, CA*

Specify proposed voltage level of interconnection.

115kV

Specify requested type of interconnection (tap-line, double tap, loop).

Double tap ✓

If tap-line, does customer want to engineer, construct, and own?

San Jose proposes to engineer, construct, and own.

Description of type of load: summer or winter peaking, daily cycling, residential, commercial, (heavy, light) industrial, pump, dispatchable:

combined residential & commercial, summer peaking

Mixed use development, primarily commercial and industrial.

Maximum load (MW) and power factor: _____ MW @ _____ p.f.

Load as shown in Attachment 3 ~~25.2 MW in 2026, 47.9 MW in 2035~~ *PF as required by CAISO*

(Note: For loads connected to the CAISO Controlled Grid, power factor must remain between 0.97 and 0.99.)

Describe voltage regulation devices being installed to maintain CAISO required load power factor.

To Be Determined - will follow good utility practices.

Provide Load Forecast for 5-10 years (monthly energy and demand).

See Attachment 3 - Load Forecast ✓

Proposed date for energizing the interconnection.

January 1, 2025 - Confirm with new Attachment 3

Requested term of Interconnection Service.

Long Term - 30+ years

Describe any on-site generation (where on-site generation exceeds 15% of site load, additional generator data will be required).

~~Preliminary estimate of 7.8 MW of solar [+ 10 MW storage?] [- xxMW digester gas?]~~

TBD

Main transformer bank data, if applicable (MVA, voltages, impedance and connection).

115/12kV or 115/21 kV, Delta-Wye, 30/45 MVA

Provide general outdoor arrangement of the applicant's substation, if applicable.

See Attachment 4 - General Arrangement

Provide applicant's substation one-line diagram, if applicable.

See Attachment 5 - Single Line Diagram

For pumping plants and industrial facilities, starting KVA and power factor of the largest motor or group of motors __ KVA __ PF

~~[Discuss with Google]~~

TBD

Describe Applicant's protection equipment.

Per PG&E's Transmission Interconnection Handbook

ATTACHMENT 1

STATEMENT OF APPLICABLE TARIFF & ELIGIBILITY

~~Description of FERC tariffs under which service is being requested and Eligibility for San Jose to apply for interconnection service under the tariffs identified.~~

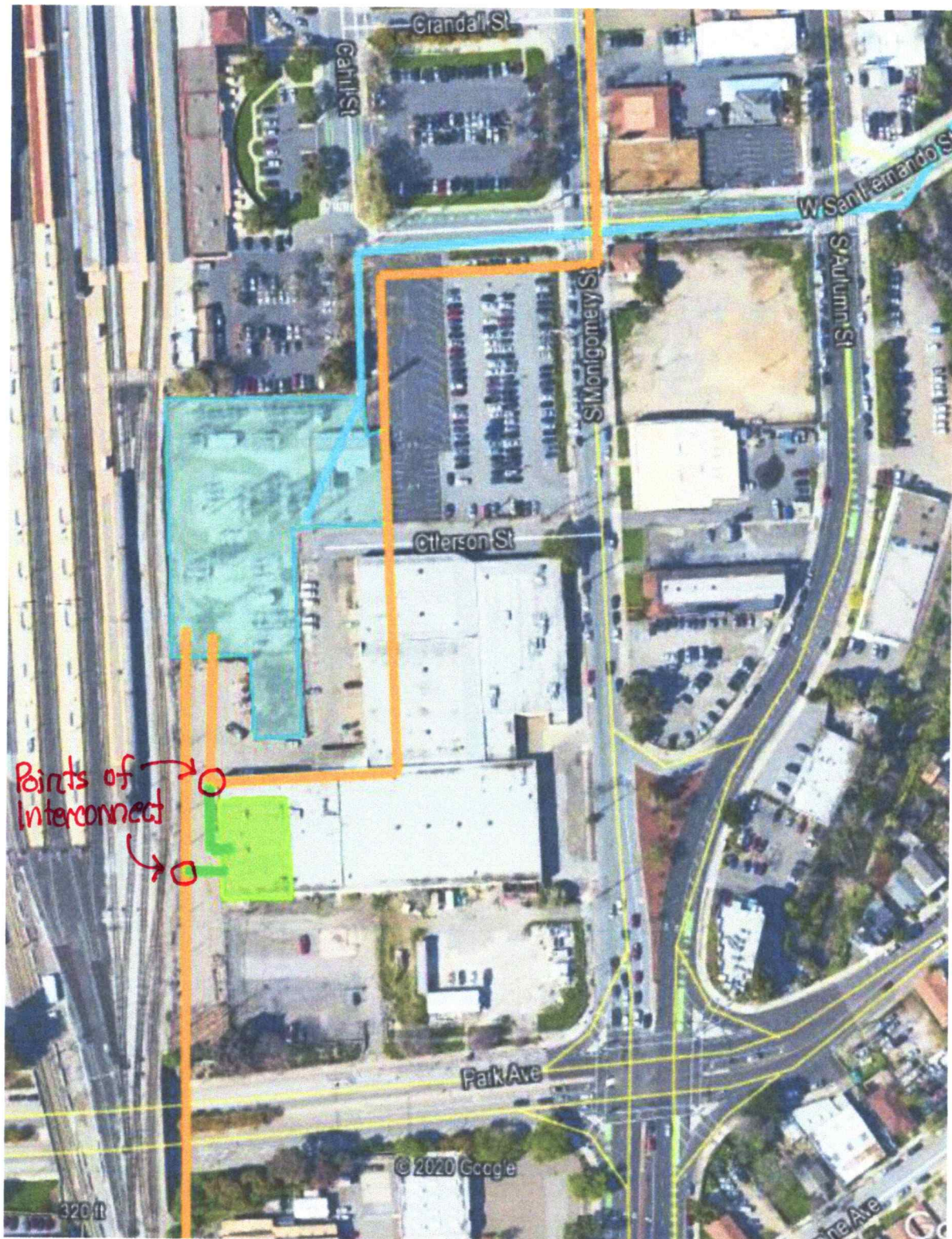
~~Statement in the form of a legal opinion would be preferred. However, if legal opinion is delayed, the following initial statement from project team could be provided initially.~~

Potential statement:

This statement is not provided in the form of a legal opinion. San Jose is requesting service pursuant to the Pacific Gas & Electric Company Transmission Owner Tariff (TO Tariff) FERC Electric Tariff Volume No. 5. San Jose is an ~~eligible~~ **Eligible customer** ~~Customer pursuant to as defined in~~ PG&E TO Tariff Section 3.20 because it **is a municipality and intends to be a utility that will own or control electric facilities to deliver energy between the point of interconnection and its retail customers and will generate, buy and/or sell energy into, out of, or through the California Independent System Operator Controlled Grid, and San Jose** is eligible for interconnection consistent with the provisions of Section 210(a) of the Federal Power Act.

ATTACHMENT 2

POINT OF INTERCONNECTION



Legend: Blue - Existing Station A & OH 115kV lines
Orange - Proposed UG 115kV lines requested by Google
Green - Proposed Interconnection Facilities by CSJ



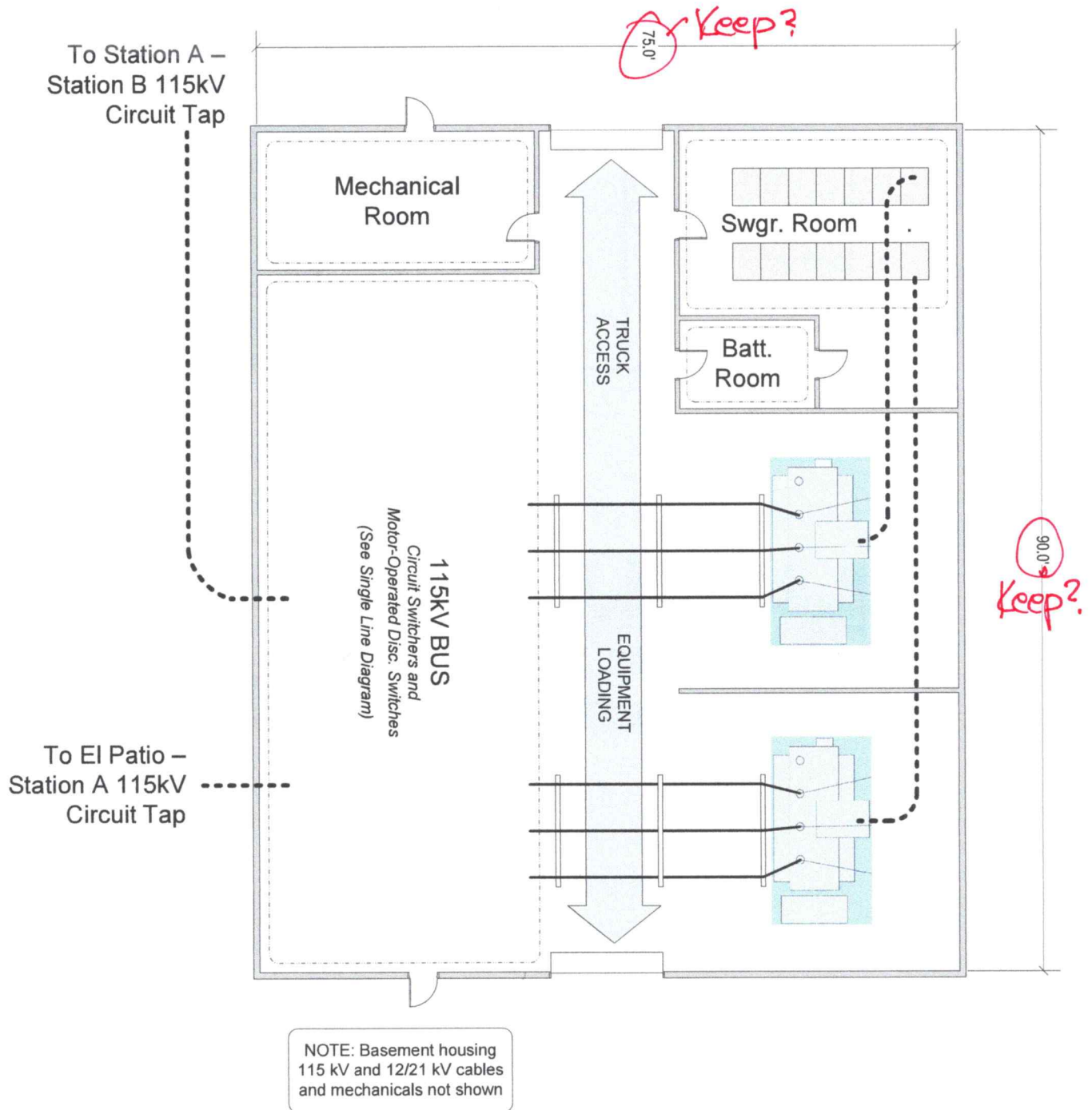
ATTACHMENT 3
LOAD FORECAST

Provide Load Forecast for 5-10 years (monthly energy and demand).

Year	Total Forecasted Load (MW)	
2025	9.0	
2026	25.2 ✓	
2027	27.4 ✓	
2028	27.4 ✓	
2029	32.3 ✓	
2030	39.7 ✓	
2031	41.2 ✓	
2032	44.3 ✓	Conform to in-service date of interconnection facilities
2033	44.3 ✓	
2034	47.9 ✓	
2035	47.9 ✓	

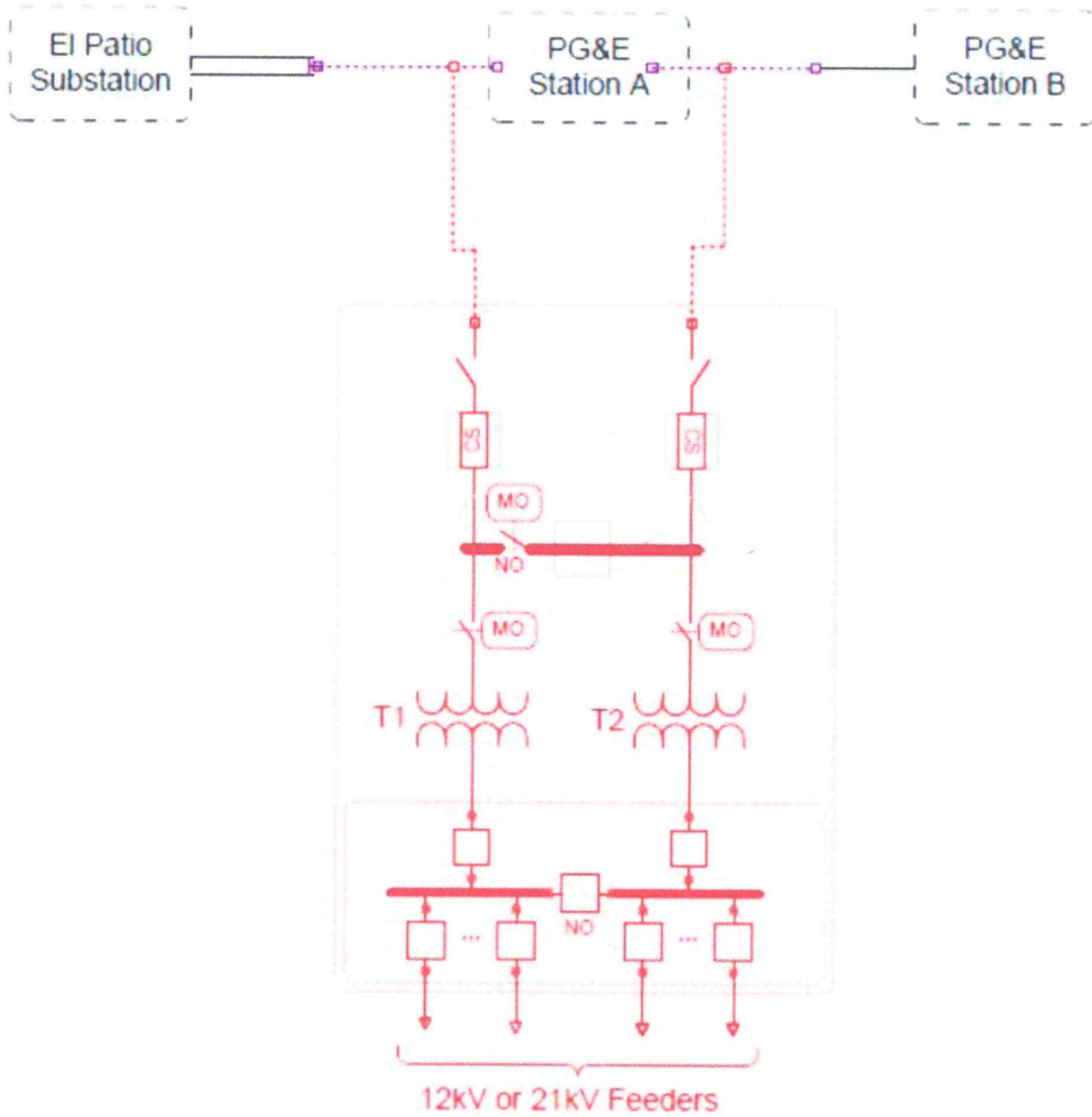
ATTACHMENT 4

**GENERAL ARRANGEMENT
ELECTRIC UTILITY BUILDING**



ATTACHMENT 5

SINGLE LINE DIAGRAM





**Pacific Gas and
Electric Company®**

INTERCONNECTION APPLICATION

Interconnection Applicant Information

Legal Name of Interconnection Applicant

Name: _____

Contact Person: _____

Title: _____

Mailing Address: _____

City: _____ State: _____ ZIP: _____

Business Telephone #: _____ Cell #: _____

E-Mail Address: _____

Additional Contact Information

Contact Name: _____

Title: _____

Mailing Address: _____

City: _____ State: _____ ZIP: _____

Business Telephone #: _____ Cell #: _____

E-Mail Address: _____

INTERCONNECTION APPLICATION

Interconnection Facility Information

Describe the FERC tariffs under which service is being requested.

Describe Applicant's eligibility to apply for interconnection service under the tariffs identified.

Specify proposed point of interconnection or site (with sufficient detail to locate point on a USGS map).

Specify proposed voltage level of interconnection.

Specify requested type of interconnection (tap-line, double tap, loop).

If tap-line, does customer want to engineer, construct, and own?

Description of type of load: summer or winter peaking, daily cycling, residential, commercial, (heavy, light) industrial, pump, dispatchable:

Maximum load (MW) and power factor: _____ MW @ _____ p.f.

(Note: For loads connected to the CAISO Controlled Grid, power factor must remain between 0.97 and 0.99.)

Describe voltage regulation devices being installed to maintain CAISO required load power factor.

Provide Load Forecast for 5-10 years (monthly energy and demand).

Proposed date for energizing the interconnection.

Requested term of Interconnection Service.

Describe any on-site generation (where on-site generation exceeds 15% of site load, additional generator data will be required).

Main transformer bank data, if applicable (MVA, voltages, impedance and connection).

Provide general outdoor arrangement of the applicant's substation, if applicable.

Provide applicant's substation one-line diagram, if applicable.

For pumping plants and industrial facilities, starting KVA and power factor of the largest motor or group of motors __ KVA __ PF

Describe Applicant's protection equipment.

ATTACHMENT 1

STATEMENT OF APPLICABLE TARIFF & ELIGIBILITY

This statement is not provided in the form of a legal opinion. San Jose is requesting service pursuant to the Pacific Gas & Electric Company Transmission Owner Tariff (TO Tariff) FERC Electric Tariff Volume No. 5 San Jose is an Eligible Customer as defined in PG&E TO Tariff Section 3.20 because it is a municipality and intends to be a utility that will own or control electric facilities to deliver energy between the point of interconnection and its retail customers and will generate, buy and/or sell energy into, out of, or through the California Independent System Operator Controlled Grid. San Jose is eligible for interconnection consistent with the provisions of Section 210(a) of the Federal Power Act.

ATTACHMENT 2 Green

POINT OF INTERCONNECTION

LEGEND:

Blue - Existing Station A & OH 115kV Lines

Orange - Proposed UG 115kV Lines

requested by Google

Green - Proposed Interconnection Facilities

requested by City of San Jose





ATTACHMENT 3

LOAD FORECAST

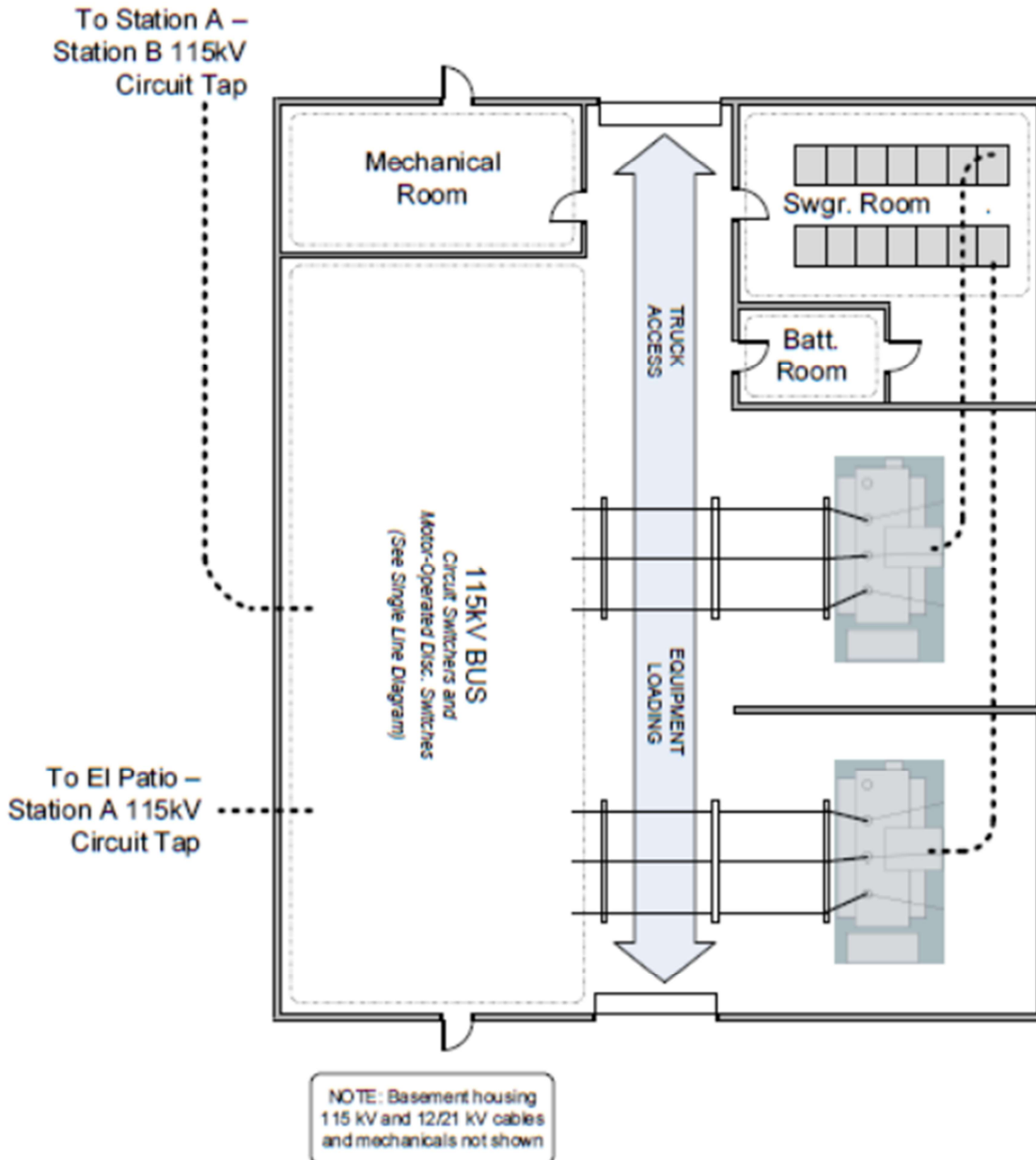
Year	Annual Peak Load (MW)	Annual Total Energy (MWh)
2025	9.0	47,304
2026	25.2	132,451
2027	27.4	144,014
2028	27.4	144,014
2029	32.3	169,769
2030	39.7	208,663
2031	41.2	216,547
2032	44.3	232,841
2033	44.3	232,841
2034	47.9	251,762

NOTE: Annual Total Energy based on 60% Annual Load Factor.

NOTE: Monthly forecasts will be provided later.

ATTACHMENT 4

GENERAL ARRANGEMENT ELECTRIC UTILITY BUILDING



ATTACHMENT 5

SINGLE LINE DIAGRAM

