

From: [O'Connor, Kevin](#)
To: [Downtown West Project](#)
Subject: FW: City of San Jose Revised Interconnection Application
Date: Wednesday, May 12, 2021 1:09:38 PM
Attachments: [image001.png](#)
[Signature Page for PGE System Impact Study CSJ Signed \(SJCE\) 04-20-21.pdf](#)
[PGE System Impact Study CSJ Signed \(SJCE\) 04-20-21.pdf](#)

Kevin O'Connor
Energy Resilience Coordinator
City of San Jose Community Energy Department
Email: kevin.oconnor@sanjoseca.gov
(408) 460-8106

From: O'Connor, Kevin
Sent: Tuesday, April 20, 2021 4:49 PM
To: Smith, Martin <MES3@pge.com>
Cc: Virani, Nadim (ET) <nxvg@pge.com>; Collette, Nicole <NACa@pge.com>; Rios, Marco <M1R9@pge.com>; Hailemichael, Yilma <VxH4@pge.com>; Mitchell, Lori <Lori.Mitchell@sanjoseca.gov>; Ekern, Bill <Bill.Ekern@sanjoseca.gov>; 'brflynn@flynnrci.com'; Doug Boccignone <dougbocc@flynnrci.com>; Mestaz, Jeannette <jeannette.mestaz@sanjoseca.gov>
Subject: RE: City of San Jose Revised Interconnection Application

Hello Martin,

Please find attached the executed System Impact Study Plan and Agreement. I also included a separate signature page with the City's mailing address because the address was inadvertently omitted prior to executing and converting the document to a PDF file.

I would like to thank you and PG&E for including many of our requested revisions and providing additional clarification and suggested approaches in the revised plan and agreement. The City appreciates the thoughtful work done by PG&E on our project.

In terms of next steps, the City believes that it would be beneficial for both parties to schedule some follow up discussions in the near future to address the questions and points raised by PG&E, such as the extent of the undergrounding to be assumed in the studies, the property requirements associated with the hybrid line transitions from overhead to underground, and the footprint for the switching station equipment for each option. Please let me know the best approach for planning and scheduling this follow up. I'm glad to work directly with you, Nicole or anyone else to make this happen.

Again, thank you for your work on this. The City is looking forward to working with PG&E on the study and the interconnection project.

Regards,

Kevin O'Connor
Energy Resilience Coordinator
City of San Jose Community Energy Department
Email: kevin.oconnor@sanjoseca.gov
(408) 460-8106

From: Smith, Martin <MES3@pge.com>
Sent: Thursday, April 8, 2021 10:48 AM
To: O'Connor, Kevin <Kevin.Oconnor@sanjoseca.gov>; Mitchell, Lori <Lori.Mitchell@sanjoseca.gov>; Ekern, Bill <Bill.Ekern@sanjoseca.gov>; 'brflynn@flynnrci.com'; Doug Boccignone <dougbocc@flynnrci.com>
Cc: Virani, Nadim (ET) <nxvg@pge.com>; Collette, Nicole <NACa@pge.com>; Rios, Marco <M1R9@pge.com>; Hailemichael, Yilma <VxH4@pge.com>
Subject: RE: City of San Jose Revised Interconnection Application

[External Email]

Hello Kevin,

Please find attached the revised System Impact Study Plan and Agreement reflecting additional changes to the interconnection options available. Please also find PG&E's responses to City of San Jose's letter of February 18, 2021.

If City of San Jose agrees to the Agreement and has no comments, please review, print, and sign the agreement document, and return it to me within ten business days at the following address. Due to COVID-19 restrictions, please also e-mail a scanned electronic copy to me at Martin.smith@pge.com, and also keep a copy of the agreement for yourself.

Pacific Gas and Electric Company
Attn: Martin Smith
77 Beale Street, Mail Code: B13U
P.O. Box 770000
San Francisco, CA 94105

Please send the check for the study fee (\$40,000) to the following address with a copy of the SIS Agreement. Please request that the check be assigned to Order Number **9739712**.

PG&E CFM / PPC DEPARTMENT
P.O. BOX 997340
SACRAMENTO, CA 95899-7340

If you have any further questions, please let me know.

Best,

Martin Smith | Transmission Contract Manager, Sr.
Electric Transmission Contract Management, Electric Grid Interconnection
Pacific Gas and Electric Company
77 Beale Street, Mail Code: B13U
San Francisco, CA 94105
Phone: (925) 872-0288
E-Mail: martin.smith@pge.com

From: O'Connor, Kevin <Kevin.Oconnor@sanjoseca.gov>
Sent: Thursday, March 25, 2021 2:39 PM
To: Smith, Martin <MES3@pge.com>
Cc: Virani, Nadim (ET) <nxvg@pge.com>; Hailemichael, Yilma <VxH4@pge.com>; Doug Boccignone <dougbocc@flynnrci.com>; 'brflynn@flynnrci.com' <brflynn@flynnrci.com>; Mitchell, Lori <Lori.Mitchell@sanjoseca.gov>; Elkins, Luisa <Luisa.Elkins@sanjoseca.gov>; Ekern, Bill <Bill.Ekern@sanjoseca.gov>; Collette, Nicole <NACa@pge.com>
Subject: RE: City of San Jose Revised Interconnection Application

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Hello Martin,

I hope you are doing well.

I'm following up on your email three weeks ago regarding the status of the System Impact Study Plan and Agreement. Would you be able to provide an update?

Thank you!

Kevin O'Connor
Energy Resilience Coordinator
City of San Jose Community Energy Department
Email: kevin.oconnor@sanjoseca.gov
(408) 460-8106

From: Smith, Martin <MES3@pge.com>
Sent: Thursday, March 4, 2021 1:53 PM
To: O'Connor, Kevin <Kevin.Oconnor@sanjoseca.gov>
Cc: Virani, Nadim (ET) <nxvg@pge.com>; Hailemichael, Yilma <VxH4@pge.com>; Doug Boccignone <dougbocc@flynnrci.com>; 'brflynn@flynnrci.com' <brflynn@flynnrci.com>; Mitchell, Lori <Lori.Mitchell@sanjoseca.gov>; Elkins, Luisa <Luisa.Elkins@sanjoseca.gov>; Ekern, Bill

<Bill.Ekern@sanjoseca.gov>; Collette, Nicole <NACa@pge.com>
Subject: RE: City of San Jose Revised Interconnection Application

[External Email]

Hi Kevin,

Thanks for checking in on the status of the System Impact Study Plan and Agreement. We are currently reviewing the City's comments and hope to have a revised Plan back to you for review within a week or so.

Best,

Martin Smith | Transmission Contract Manager, Sr.
Electric Transmission Contract Management, Electric Grid Interconnection
Pacific Gas and Electric Company
77 Beale Street, Mail Code: B13U
San Francisco, CA 94105
Phone: (925) 872-0288
E-Mail: martin.smith@pge.com

From: O'Connor, Kevin <Kevin.Oconnor@sanjoseca.gov>
Sent: Wednesday, March 3, 2021 2:56 PM
To: Smith, Martin <MES3@pge.com>
Cc: Virani, Nadim (ET) <nxvg@pge.com>; Hailemichael, Yilma <VxH4@pge.com>; Doug Boccignone <dougbocc@flynnrci.com>; 'brflynn@flynnrci.com' <brflynn@flynnrci.com>; Mitchell, Lori <Lori.Mitchell@sanjoseca.gov>; Elkins, Luisa <Luisa.Elkins@sanjoseca.gov>; Ekern, Bill <Bill.Ekern@sanjoseca.gov>; Collette, Nicole <NACa@pge.com>
Subject: RE: City of San Jose Revised Interconnection Application

*******CAUTION: This email was sent from an EXTERNAL source. Think before clicking links or opening attachments.*******

Hello Martin,

I'm just following up with you to confirm receipt of our requested changes to the System Impact Study Plan and Agreement, and see if you have any questions or a sense as to when we might receive a revised plan. Once we have a finalized plan, I will be able to process the agreement and payment on my end.

Thank you,

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

From: O'Connor, Kevin
Sent: Thursday, February 18, 2021 7:01 PM
To: Smith, Martin <MES3@pge.com>
Cc: Virani, Nadim (ET) <nxvg@pge.com>; Hailemichael, Yilma <VxH4@pge.com>; Doug Boccignone <dougbocc@flynnrci.com>; brflynn@flynnrci.com; Mitchell, Lori <Lori.Mitchell@sanjoseca.gov>; Elkins, Luisa <Luisa.Elkins@sanjoseca.gov>; Ekern, Bill <Bill.Ekern@sanjoseca.gov>; Collette, Nicole <NACa@pge.com>
Subject: RE: City of San Jose Revised Interconnection Application

Hello Martin,

Please find attached our response letter with attachments to the proposed System Impact Study Plan and Agreement.

The letter includes our requested changes to the plan. For your convenience, the attachments integrate those changes to the proposed plan.

I am also working internally on the process for finalizing an agreement and payment for the study. I will keep you updated on that.

Thank you and I'm looking forward to working with you on the study.

Sincerely,

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

From: Smith, Martin <MES3@pge.com>
Sent: Thursday, February 11, 2021 9:37 AM
To: O'Connor, Kevin <Kevin.Oconnor@sanjoseca.gov>; Collette, Nicole <NACa@pge.com>
Cc: Virani, Nadim (ET) <nxvg@pge.com>; Hailemichael, Yilma <VxH4@pge.com>; Doug Boccignone <dougbocc@flynnrci.com>; brflynn@flynnrci.com; Mitchell, Lori <Lori.Mitchell@sanjoseca.gov>; Elkins, Luisa <Luisa.Elkins@sanjoseca.gov>
Subject: RE: City of San Jose Revised Interconnection Application

[External Email]

Hi Kevin,

Thank you for confirming. Yes, the document for signature at the end of the Plan is the only agreement needed to perform the SIS, along with the required study fee.

Best,
Martin

From: O'Connor, Kevin <Kevin.Oconnor@sanjoseca.gov>

Sent: Thursday, February 11, 2021 9:08 AM

To: Smith, Martin <MES3@pge.com>; Collette, Nicole <NACa@pge.com>

Cc: Virani, Nadim (ET) <nxvg@pge.com>; Hailemichael, Yilma <VxH4@pge.com>; Doug Boccignone <dougbocc@flynnrci.com>; brflynn@flynnrci.com; Mitchell, Lori <Lori.Mitchell@sanjoseca.gov>; Elkins, Luisa <Luisa.Elkins@sanjoseca.gov>

Subject: RE: City of San Jose Revised Interconnection Application

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Hello Martin,

Thank you for following up with me. Yes, we received the draft SIS plan and agreement. We are reviewing it now and will likely have some questions and comments. I anticipate we will get those back to you next week.

On the agreement piece, is the document included at the end of the SIS plan the only agreement/contract documentation that PG&E requires to perform the SIS?

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

From: Smith, Martin <MES3@pge.com>

Sent: Thursday, February 11, 2021 8:57 AM

To: O'Connor, Kevin <Kevin.Oconnor@sanjoseca.gov>; Collette, Nicole <NACa@pge.com>

Cc: Virani, Nadim (ET) <nxvg@pge.com>; Hailemichael, Yilma <VxH4@pge.com>; Doug Boccignone <dougbocc@flynnrci.com>; brflynn@flynnrci.com; Mitchell, Lori <Lori.Mitchell@sanjoseca.gov>; Elkins, Luisa <Luisa.Elkins@sanjoseca.gov>

Subject: RE: City of San Jose Revised Interconnection Application

[External Email]

Hello again Kevin,

Just following up with you to confirm receipt of the draft SIS Plan and Agreement, and to provide you with further details on submission of the agreement and study fee.

If City of San Jose agrees to the Agreement and has no comments, please review, print, and sign the agreement document, and return it to me at the following address by Friday, February 19th. Please also keep a copy of it for yourself.

Pacific Gas and Electric Company
Attn: Martin Smith
77 Beale Street, Mail Code: B13U
P.O. Box 770000
San Francisco, CA 94105

Please send the check for the study fee (\$40,000) to the following address with a copy of the SIS Agreement. Please request that the check be assigned to Order Number **9739712**.

PG&E CFM / PPC DEPARTMENT
P.O. BOX 997340
SACRAMENTO, CA 95899-7340

If you have any questions, please let me know.

Thank you,

Martin Smith | Transmission Contract Manager, Sr.
Electric Transmission Contract Management, Electric Grid Interconnection
Pacific Gas and Electric Company
77 Beale Street, Mail Code: B13U
San Francisco, CA 94105
Phone: (925) 872-0288
E-Mail: martin.smith@pge.com

From: Smith, Martin

Sent: Thursday, February 4, 2021 6:06 PM

To: O'Connor, Kevin <Kevin.Oconnor@sanjoseca.gov>; Collette, Nicole <NACa@pge.com>

Cc: Virani, Nadim (ET) <nxvg@pge.com>; Hailemichael, Yilma <VxH4@pge.com>; Doug Boccignone <dougbocc@flynnrci.com>; brflynn@flynnrci.com; Mitchell, Lori <Lori.Mitchell@sanjoseca.gov>; Elkins, Luisa <Luisa.Elkins@sanjoseca.gov>

Subject: RE: City of San Jose Revised Interconnection Application

Hello Kevin,

Attached is the draft System Impact Study Plan and Agreement for your review and concurrence. When City of San Jose is ready to proceed, please respond to me and I will provide you with further details on submitting the SIS Plan and Agreement for execution, as well as processing the study fee.

If you have any questions or concerns, please let me know.

Thank you,

Martin Smith | Transmission Contract Manager, Sr.
Electric Transmission Contract Management, Electric Grid Interconnection
Pacific Gas and Electric Company
77 Beale Street, Mail Code: B13U
San Francisco, CA 94105
Phone: (925) 872-0288
E-Mail: martin.smith@pge.com

From: Smith, Martin

Sent: Monday, January 11, 2021 11:04 AM

To: O'Connor, Kevin <Kevin.Oconnor@sanjoseca.gov>; Collette, Nicole <NACa@pge.com>

Cc: Virani, Nadim (ET) <nxvg@pge.com>; Hailemichael, Yilma <VxH4@pge.com>; Doug Boccignone <dougbocc@flynnrci.com>; brflynn@flynnrci.com; Mitchell, Lori <Lori.Mitchell@sanjoseca.gov>; Elkins, Luisa <Luisa.Elkins@sanjoseca.gov>

Subject: RE: City of San Jose Revised Interconnection Application

Hi Kevin,

This is to confirm that the application is now deemed complete, and PG&E will begin to draft a System Impact Study Plan and Agreement to deliver to City of San Jose by February 4th for its review.

If you have any questions or concerns, please let me know.

Thanks,

Martin Smith | Transmission Contract Manager, Sr.
Electric Transmission Contract Management, Electric Grid Interconnection

Pacific Gas and Electric Company
77 Beale Street, Mail Code: B13U
San Francisco, CA 94105
Phone: (925) 872-0288
E-Mail: martin.smith@pge.com

From: O'Connor, Kevin <Kevin.Oconnor@sanjoseca.gov>
Sent: Tuesday, January 5, 2021 1:43 PM
To: Collette, Nicole <NACa@pge.com>
Cc: Smith, Martin <MES3@pge.com>; Virani, Nadim (ET) <nxvg@pge.com>; Hailemichael, Yilma <VxH4@pge.com>; Yang, Zoe (ETCM) <C1YE@pge.com>; Doug Boccignone <dougbocc@flynnrci.com>; brflynn@flynnrci.com; Mitchell, Lori <Lori.Mitchell@sanjoseca.gov>; Elkins, Luisa <Luisa.Elkins@sanjoseca.gov>
Subject: RE: City of San Jose Revised Interconnection Application

*******CAUTION: This email was sent from an EXTERNAL source. Think before clicking links or opening attachments.*******

Hi Nicole,

Thanks for reaching out and confirming our intentions.

I am in agreement with your summary of our conversation this morning in that San Jose does want to include the undergrounding portion as part of its application, which will eventually be part of its interconnection study with the same scope as the Google interconnection study.

Regards,

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

From: Collette, Nicole <NACa@pge.com>
Sent: Tuesday, January 5, 2021 12:37 PM
To: O'Connor, Kevin <Kevin.Oconnor@sanjoseca.gov>
Cc: Smith, Martin <MES3@pge.com>; Virani, Nadim (ET) <nxvg@pge.com>; Hailemichael, Yilma <VxH4@pge.com>; Yang, Zoe (ETCM) <C1YE@pge.com>; Doug Boccignone <dougbocc@flynnrci.com>; brflynn@flynnrci.com; Mitchell, Lori <Lori.Mitchell@sanjoseca.gov>; Elkins, Luisa <Luisa.Elkins@sanjoseca.gov>
Subject: RE: City of San Jose Revised Interconnection Application

Hi Kevin,

Great talking to you earlier today. Per our conversation, you clarified that the City of San Jose does want to include the undergrounding portion as part of their application, which will eventually be part of their interconnection study.

In essence, the San Jose interconnection study should have the same scope as the Google interconnection study.

Could you reply to this email and confirm your agreement with the above to make sure we are aligned?

Note that PG&E has 10 business days to determine the application complete after San Jose provides all necessary information.

Thanks!

Nicole Collette

Expert Program Manager
State Infrastructure Projects
Pacific Gas & Electric Company
External: 925-459-6152
Mobile: 415 686 3049
Email: nicole.collette@pge.com

From: O'Connor, Kevin <Kevin.Oconnor@sanjoseca.gov>

Sent: Monday, January 04, 2021 3:50 PM

To: Collette, Nicole <NACa@pge.com>

Cc: Smith, Martin <MES3@pge.com>; Virani, Nadim (ET) <nxvg@pge.com>; Hailemichael, Yilma <VxH4@pge.com>; Yang, Zoe (ETCM) <C1YE@pge.com>; Doug Boccignone <dougbocc@flynnrci.com>; brflynn@flynnrci.com; Mitchell, Lori <Lori.Mitchell@sanjoseca.gov>; Elkins, Luisa <Luisa.Elkins@sanjoseca.gov>

Subject: RE: City of San Jose Revised Interconnection Application

*******CAUTION: This email was sent from an EXTERNAL source. Think before clicking links or opening attachments.*******

Hello, Nicole, and Happy New Year!

I'm sorry for the delayed response. I was unavailable over the holiday period.

San Jose understands that as part of the Downtown West Project, Google has requested that a portion of the 115 kV lines serving Station A be undergrounded. San Jose's application assumes that that the undergrounding project will proceed on a parallel track. If PG&E has suggestions for an alternative approach for addressing the undergrounding of the transmission lines, San Jose would be

open to a discussion between PG&E, San Jose and Google.

Please let me know how you suggest we proceed and if a meeting among us would be helpful to ensure that the application is processed in a timely manner. I can be best reached via email or phone at (408) 460-8106.

Regards,

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

From: Collette, Nicole <NACa@pge.com>
Sent: Thursday, December 24, 2020 2:14 PM
To: O'Connor, Kevin <Kevin.Oconnor@sanjoseca.gov>
Cc: Smith, Martin <MES3@pge.com>; Virani, Nadim (ET) <nxvg@pge.com>; Hailemichael, Yilma <VxH4@pge.com>; Yang, Zoe (ETCM) <C1YE@pge.com>
Subject: RE: City of San Jose Revised Interconnection Application

[External Email]

Hi Kevin,
Martin is out this week and our engineers just wanted to clarify some items related to your application.

Per attachment 2 of your application, the "El Patio-San Jose A 115 kV" and "San Jose A to San Jose B 115 kV" line segments are identified to be undergrounded. San Jose has referenced this as part of the "*proposed point of interconnection or site*" in the application form, however these lines are not part of the Interconnection Facility and appears to not be necessary for interconnecting the load. The team would like to clarify if San Jose wants to include the UG line segments as part of the study or not.

POINT OF INTERCONNECTION



Let me know if you have any questions or need further clarification.

I hope you have a Merry Christmas!

Thanks!

Nicole Collette

Expert Program Manager
State Infrastructure Projects
Pacific Gas & Electric Company
External: 925-459-6152
Mobile: 415 686 3049
Email: nicole.collette@pge.com

From: O'Connor, Kevin <Kevin.Oconnor@sanjoseca.gov>

Sent: Tuesday, December 15, 2020 11:25 AM

To: Collette, Nicole <NACa@pge.com>

Cc: Elkins, Luisa <Luisa.Elkins@sanjoseca.gov>; Mitchell, Lori <Lori.Mitchell@sanjoseca.gov>; Ekern, Bill <Bill.Ekern@sanjoseca.gov>; brflynn@flynnrci.com; Doug Boccignone <dougbocc@flynnrci.com>; Hailemichael, Yilma <VxH4@pge.com>; Smith, Martin <MES3@pge.com>; Virani, Nadim (ET) <nxvg@pge.com>

Subject: City of San Jose Revised Interconnection Application

*******CAUTION: This email was sent from an EXTERNAL source. Think before clicking links or opening attachments.*******

Dear Nicole,

Attached you will find a letter from the City of San Jose responding to Satvir Nagra's November 24, 2020 letter to us and informing PG&E that the City is submitting a revised Interconnection Application to serve the Downtown West Project. The revised Interconnection Application form and detailed attachments are also included and formally submitted by way of this email.

Please let me know how you suggest that we proceed to most efficiently move the City's Interconnection Application forward and complete the necessary subsequent steps. If helpful, I could be available for a brief coordination meeting prior to the holidays. Please feel free to email or contact me on my cell at (408) 460-8106.

Regards,

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

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**Pacific Gas and
Electric Company**

WE DELIVER ENERGY.

System Impact Study Plan Agreement

City of San Jose has reviewed the System Impact Study Plan for the request to increase load at their proposed project site served by PG&E's electric transmission system and agrees to the study and assumptions outlined in this Study Plan.

City of San Jose agrees to pay up to the estimated \$40,000 study fee under the IA.

Dated this 19th day of April, 2021

City of San Jose:

BY: _____

(Signature)

Leland Wilcox

(Type or Print Name)

Senior Deputy City Attorney

Luisa Elkins

Apr 17, 2021

MAILING ADDRESS:

CITY OF SAN JOSE

ATTN: COMMUNITY ENERGY

200 E. SANTA CLARA ST.

SAN JOSE, CA 95113

System Impact Study Plan

Wholesale Load Interconnection

City of San Jose Load Interconnection Development

Downtown San Jose next to Caltrain Diridon Station



***Pacific Gas and
Electric Company***

WE DELIVER ENERGY.

April 8, 2021

Table of Contents

1.	Introduction	1
2.	Study Fee	1
3.	Schedule.....	1
4.	Cost Estimates	2
5.	Project and Interconnection Information	2
5.1	Interconnection Options.....	6
6.	Study Assumptions	10
7.	Power Flow Cases	10
8.	Study Scope	11
8.1	Power Flow Analysis	11
8.2	System Protection Analysis.....	14
8.3	Transmission Line Evaluation	14
8.4	Substation Evaluation.....	14
8.5	Land Evaluation.....	14
9.	Environmental Evaluation/ Permitting.....	15
9.1	CPUC General Order 131-D	15
9.2	CPUC General Order 131-D – Permit to Construct/Exemptions	15
9.3	CPUC General Order 131-D – Certificate of Public Convenience & Necessity (CPCN) Exceptions	16
9.4	CPUC General Order 131-D – General Comments Relating to Environmental Review of PG&E Scope of Work as Part of the Larger Load Project.....	17
9.5	CPUC Section 851	17
9.6	PG&E scope of work NOT subject to CPUC General Order 131-D	18
10.	Study Updates.....	18

1. Introduction

City of San Jose has submitted an application to Pacific Gas and Electric Company (PG&E) to interconnect a new campus with mixed residential and commercial loads in downtown San Jose near Caltrain Diridon Station (project). The project is expected to be with an initial load of 13.5 MW (including construction power) and the demand will continue to ramp up to 48 MW in 2030.

PG&E has determined that a System Impact Study (SIS) will be needed to identify any impacts caused by this interconnection. This SIS will identify:

- the various transmission and distribution options to interconnect the project,
- any transmission and distribution impacts caused solely by the addition of the project, and
- system reinforcements necessary to mitigate any adverse impacts of the Project under various system conditions.

This SIS Plan will form the basis for the SIS by defining the scope, content, assumptions, and terms of reference of the SIS.

2. Study Fee

PG&E has estimated a study fee of \$40,000 for performing the SIS based upon the scope of this SIS Plan, which City of San Jose has provided to PG&E. The final cost to complete the SIS will be based on actual cost. If City of San Jose chooses not to continue with the study after receiving this SIS Plan, a fee of \$2,500 shall be assessed to reimburse PG&E the cost of processing the study request, and City of San Jose shall have no further obligations to PG&E pursuant to this SIS Plan or the SIS.

PG&E will provide City of San Jose a record of actual costs for performing the SIS roughly two months after the SIS is completed. If PG&E believes the costs of the SIS will exceed \$40,000, PG&E shall receive prior written approval from City of San Jose.

3. Schedule

PG&E has estimated a target study timeline as summarized in Table 3-1.

Table 3-1: System Impact Study Schedule

Task	Milestone Description	Target Date
0	City of San Jose Application Complete	1/11/2021

Task	Milestone Description	Target Date
1	PG&E finalizes SIS Study Plan	2/4/2021
2	City of San Jose signs and returns SIS Agreement	Starting Date
3	PG&E finalizes draft Report to City of San Jose	Starting Date + 10 weeks
4	City of San Jose comments on draft Report	Starting Date + 11 weeks
5	PG&E finalizes SIS Report	Starting Date + 12 weeks

Per the PG&E Transmission Owner Tariff, City of San Jose must execute and return the attached SIS Agreement in order to maintain the study schedule. If City of San Jose fails to return an executed SIS Agreement within a timely manner, this interconnection application may be assumed to be withdrawn from PG&E application queue with respect to preparation of technical studies and negotiations related to service necessary for increasing the load for the Project.

PG&E will put forth its best efforts and take advantage of prior analyses in completing this System Impact Study in a timely manner.

4. Cost Estimates

No detailed cost estimate of facilities will be provided in this SIS. Any costs provided will be non-binding good faith cost estimates only. These costs have no associated degree of accuracy and are provided for informational purposes only.

Detailed cost estimates will be provided when the Project progresses to the Detailed Interconnection Study (DIS). Charges for implementing these interconnections and facility modifications, if City of San Jose decides to proceed, will be made based upon the actual costs incurred.

5. Project and Interconnection Information

City of San Jose is planning to increase electric capacity in downtown San Jose near Caltrain Diridon Station. The demand will ramp up to 48 MW in 2030. Figure 5-1, Figure 5-2 and Figure 5-3 show the Point of Interconnection and conceptual single line diagram for the project and the transmission facilities in the vicinity, respectively.

Multiple load growth scenarios are provided by City of San Jose as shown in Table 5-1. The most conservative load scenario is selected to be studied in this SIS. Please see Table 5-2. The load level for year 2030 is selected for power flow studies as described in Section 7.



Figure 5-1: Point of Interconnection - a



Figure 5-2: Point of Interconnection - b

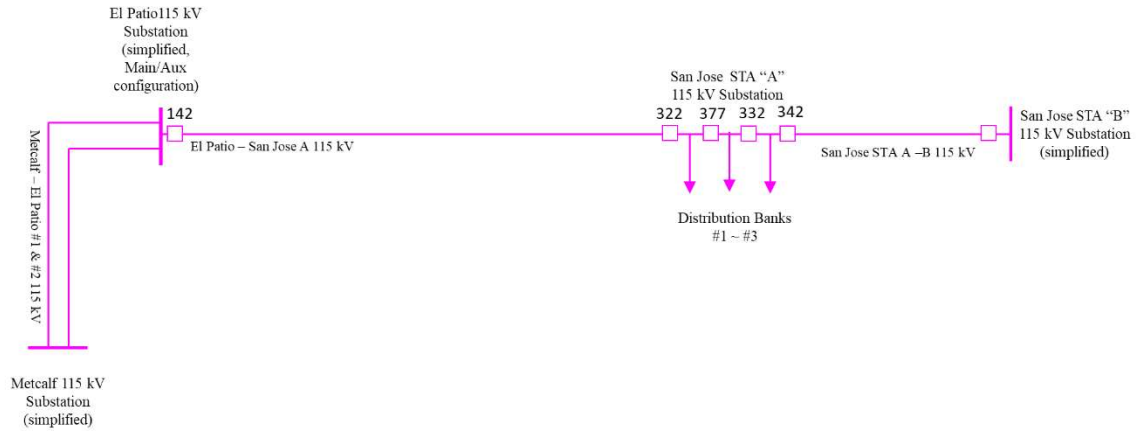


Figure 5-3: Conceptual Single Line Diagram for Existing Condition

Table 5-1: Load Forecast Scenarios Provided by City of San Jose

YEAR	CONSTR. POWER DEMAND (MW)	CONSTR. POWER ENERGY (MWH)	SJ WEST DEMAND (MW)	SJ WEST ENERGY (MWH)	TOTAL DEMAND (MW)	TOTAL ENERGY (MWH)
2022	0	0	0	0	0	0
2023	7.5	19,710	6.0	31,536	13.5	0
2024	7.5	19,710	18.0	94,608	25.5	51,246
2025	7.5	19,710	18.0	94,608	25.5	114,318
2026	7.5	19,710	24.0	126,144	31.5	114,318
2027	7.5	19,710	34.0	178,704	41.5	145,854
2028	7.5	19,710	35.0	183,960	42.5	198,414
2029	7.5	19,710	39.0	204,984	46.5	203,670
2030	7.5	19,710	40.5	212,868	48.0	224,694
2031	0.0	0	48.0	252,288	48.0	232,578
2032	0.0	0	48.0	252,288	48.0	252,288
2033	0.0	0	48.0	252,288	48.0	252,288

2034	0.0	0	48.0	252,288	48.0	252,288
2035	0.0	0	48.0	252,288	48.0	252,288

Table 5-2: Load Forecast for the SIS Study

Year	Load Forecast (MW@0.97 pf)
2023	13.5
2024	25.5
2025	25.5
2026	31.5
2027	41.5
2028	42.5
2029	46.5
2030	48

City of San Jose has requested that PG&E evaluate various options to accommodate their load on PG&E's electric system. In addition, City of San Jose also requests to convert a portion of the 115 kV San Jose A - San Jose B and El Patio - San Jose A lines to underground cables.

5.1 Interconnection Options

Option T1: “Loop” onto El Patio – San Jose A 115 kV Line with a New GIS (Gas Insulated Switchgear) 2-Bay BAAH Switching Station with Two 115 kV Transmission Feeds to City of San Jose

Figure 5-4 shows the conceptual single line diagram.

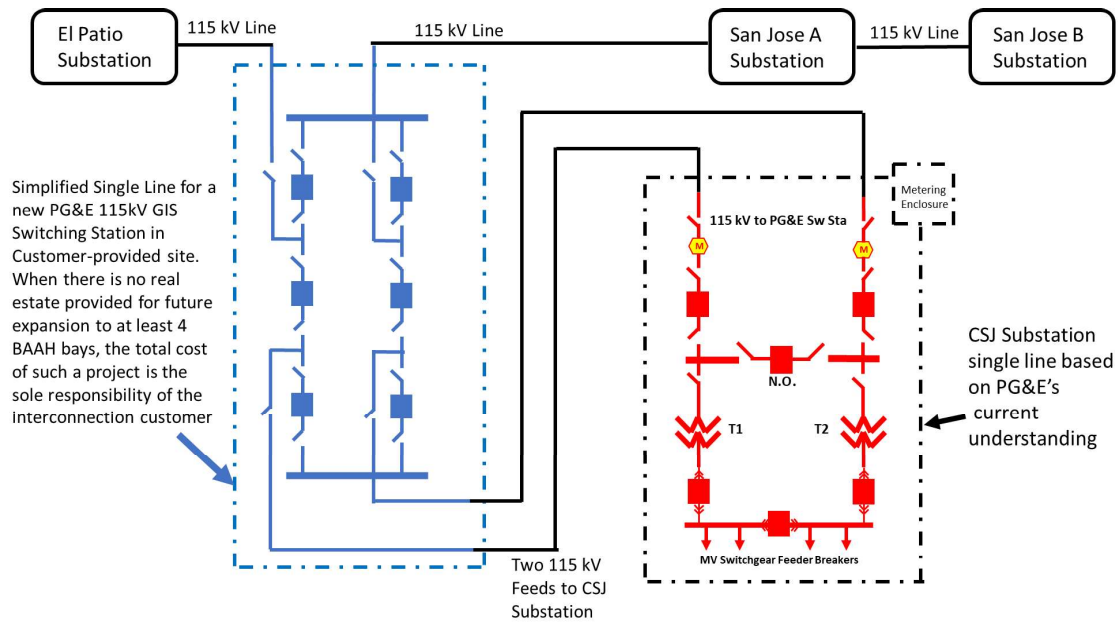


Figure 5-4: Conceptual Single Line Diagram

Figure 5-4 shows the conceptual drawing assuming two 115 kV Transmission lines to serve City of San Jose's substation. Two bays with six 115 kV breakers will need to be built to provide City of San Jose 115 kV Transmission service.

Option T2: "Loop" onto El Patio – San Jose A 115 kV Line with a New GIS 2-Bay BAAH Switching Station with Two 115 kV Transmission Feeds to City of San Jose with the Potential to Expand to 4 Bays in the Future

Figure 5-5 shows the conceptual drawing assuming two 115 kV Transmission lines to City of San Jose's substation. Two bays with six 115 kV breakers will need to be built to provide City of San Jose 115 kV Transmission service. The substation will be built with 2 bays initially with the provisions to expand to 4 bays in the future.

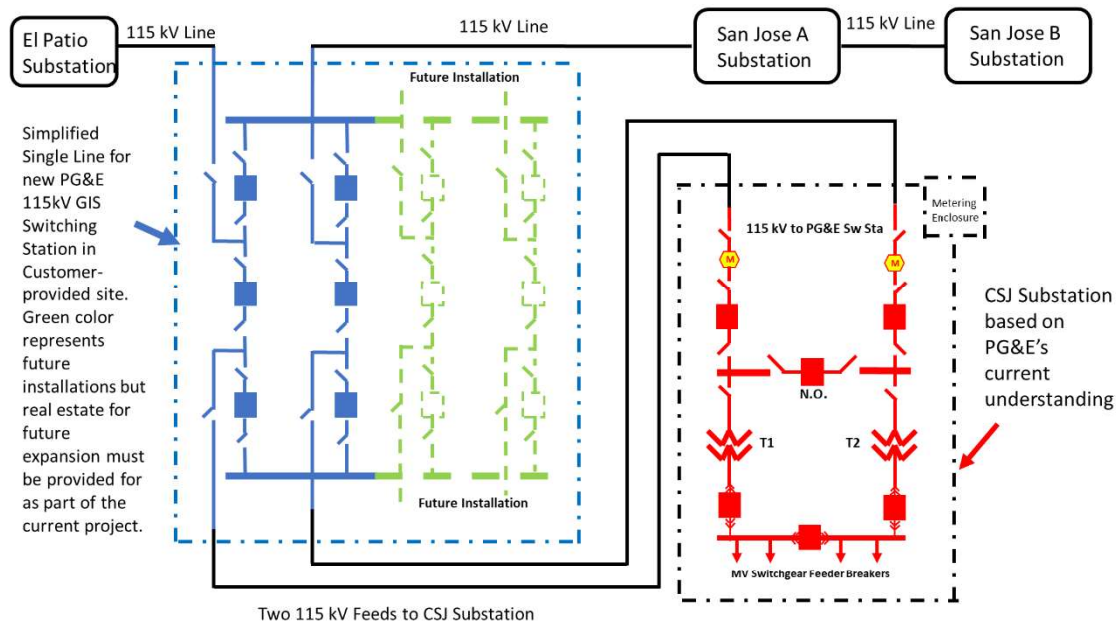


Figure 5-5: Conceptual Single Line Diagram

Option T3: Convert the Existing 115 kV Single Bus Arrangement to BAAH in San Jose A Substation; Connect the New Switching Substation with Two Transmission Feeds; Reconfigure and Reconnect the Existing San Jose Transformers to the New BAAH Bus Arrangement

Figure 5-6 shows the conceptual drawing for the Option T3. Per PG&E standard, San Jose A Substation will be upgraded to GIS 4-bay BAAH arrangement initially with the potential to expand to 5 bays in the future. Customer Substation is connected to San Jose A Substation with two 115 kV transmission lines.

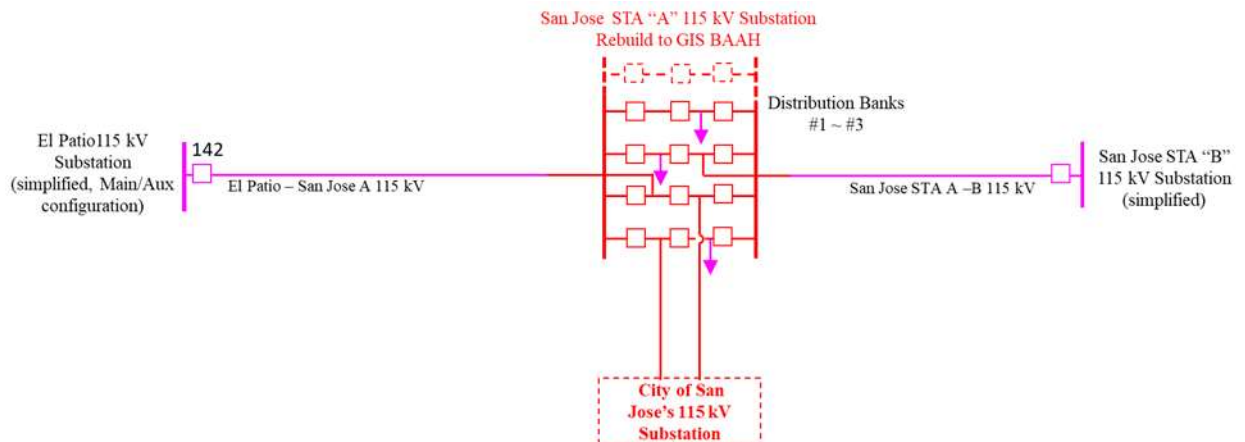


Figure 5-6: Conceptual Single Line Diagram

Option T4: Redirect T-Line Connections from San Jose A to the New Switching Station

Due to the very short distance between the New Switching Station and the existing San Jose A substation, instead of looping in the 115 kV San Jose A-El Patio Line, PG&E will cut open both the existing San Jose A - El Patio Line and the San Jose B - San Jose A Line and connect the power source from El Patio and San Jose B directly to the BAAH bays in the New Switching Station. In the process the three existing transformers at San Jose A will be cutover to connect to the New Switching Station.

This option ensures that City of San Jose's substation will be directly connected to the power source from San Jose B rather than via the existing San Jose A single bus which currently is sectionalized and has several transformer banks connected to it. The reliability for serving the City of San Jose's new load will be higher than other options. This option improves reliability for all customers in the area.

Figure 5-7 shows the conceptual drawing assuming two 115 kV Transmission lines are required to serve City of San Jose's substation. Four bays with twelve 115 kV breakers will need to be built to provide City of San Jose 115 kV Transmission service. The distribution banks located in San Jose A Substation will be connected to the New Switching Station. It has the potential for a future 115 kV line position to connect to a new line from FMC Substation.

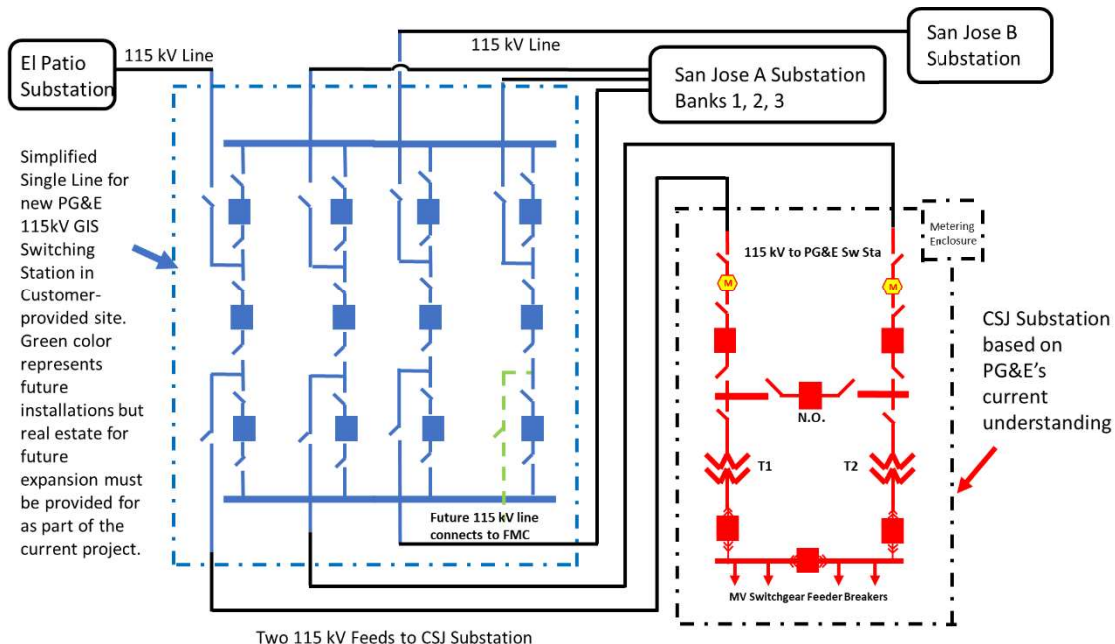


Figure 5-7: Conceptual Single Line Diagram

In all the options above, a portion of San Jose A – San Jose B and El Patio - San Jose A 115 kV lines colored orange in Figure 5-2 would be underground cables as customer requested.

6. Study Assumptions

PG&E will conduct the SIS using the following assumptions:

- 1) The project will have a load growth to 48 MW in 2030 with a power factor of 0.97 lagging as summarized in Table 5-2.

The Interconnection Customer should be aware of the following excerpt from Section 8.2.3.3 of the CAISO Tariff Appendix A concerning power factor requirements:

“All loads directly connected to the ISO Controlled Grid shall maintain reactive flow at grid interface points within a specified power factor band of 0.97 lag to 0.99 lead. Loads shall not be compensated for the service of maintaining the power factor at required levels within the bandwidth.”

“The power factor for both the Generating Units and Loads shall be measured at the interconnection point with the ISO Controlled Grid. The ISO will develop and will be authorized to levy penalties against Participating Generators, UDCs or Loads whose Voltage Support does not comply with the ISO’s requirements.”

The CAISO Tariff can be accessed through the Internet at www.caiso.com.

- 2) Power flow analysis will be performed for the load level of 48 MW in 2030.
- 3) The study will take into account all CAISO approved PG&E transmission projects in the Project vicinity.
- 4) City of San Jose will engineer, construct, own, operate and maintain its Project facilities.
- 5) City of San Jose will be responsible for all costs associated with the Project facilities, including engineering, procurement, and design of all required equipment and materials.

7. Power Flow Cases

Power flow analyses will be performed to ensure that PG&E’s transmission system remains in full compliance with North American Reliability Corporation (NERC) reliability standards TPL-001-4 with the proposed interconnection. The results of these power flow analyses will serve as documentation that an evaluation of the reliability impact of this new facility and its connection to interconnected transmission systems has been performed. If a NERC reliability problem exists as a result of this interconnection, it will be PG&E’s responsibility to identify the problem and develop an appropriate corrective action plan to comply with NERC reliability standards.

As part of PG&E's obligations with NERC as the registered Transmission Owner for the PG&E transmission system, the study results for this interconnection will be communicated to the CAISO, or other neighboring entities that may be impacted, for coordination and incorporation of its transmission assessments. Input from the CAISO and other neighboring entities are solicited to ensure coordination of transmission systems.

Depending on the load forecast from the Customer, one or more power flow cases will be used to evaluate the transmission system impacts of the Project. While it is impossible to study all combinations of system load and generation levels during all seasons and at all times of the day, the power flow base case represents the credible extreme loading and generation conditions for the study area. The power flow cases are based on the proposed load schedule for the Project as provided by City of San Jose and the CAISO approved PG&E transmission projects in the study area.

Power flow analyses will be performed using PG&E's Summer Peak power flow case (in General Electric Power Flow format). Based on comparison of 2019 basecase series year-10 case with 2020 series year-10 case, there is no significant change in the project area. To make the most of the existing analysis, it's recommended that the study will be performed with 2029 Summer Peak power flow case.

The power flow case is from PG&E's 2019 base case series and has a 1-in-10 year adverse weather load level for the Greater Bay Area of the PG&E transmission system.

The following power flow cases will be used to evaluate the transmission system impacts of the Project on the PG&E system. Ongoing load increase/interconnection projects in the area may be included for a sensitive study.

All CAISO approved PG&E transmission projects in the study area that will be operational by 2030 will be included in the power flow case accordingly.

8. Study Scope

The SIS will determine the impact of the Project on PG&E's transmission system. The specific studies conducted are outlined below:

8.1 Power Flow Analysis

The CAISO Controlled Grid Reliability Criteria, which incorporates the Western Electricity Coordinating Council (WECC) and NERC planning criteria, will be used to evaluate the impact of the Project on the PG&E transmission system. Power Flow analysis will be performed using the power flow case(s) described in [Section 7](#).

The power flow case(s) will be used to simulate the impact of the interconnection during normal operating conditions (Category P0) and for all Category P1 and selected (Category P2~P7) contingencies in PG&E's San Jose Division.

Single contingency (Category P1)

The assessment will consider all Category P1 contingencies based upon the following:

- 3Φ Fault with loss of one generator (P1-1)¹
- 3Φ Fault with loss of one transmission circuit (P1-2)
- 3Φ Fault with loss of one transformer (P1-3)
- 3Φ Fault with loss of one shunt device (P1-4)

Single contingency (Category P2)

The assessment will consider selected Category P2 contingencies based upon the following:

- Opening of a line section without a fault (P2-1)
- SLG Fault with loss of one bus section (P2-2)
- SLG Fault with loss of one breaker (internal fault) (non-Bus-tie Breaker) (P2-3)
- SLG Fault with loss of one breaker (internal fault) (Bus-tie Breaker) (P2-4)

Multiple contingency (Category P3)

The assessment will consider the Category P3 contingencies with loss of a generator unit, followed by system adjustments and the loss of the following:

- 3Φ Fault with loss of one generator (P3-1)²
- 3Φ Fault with loss of one transmission circuit (P3-2)
- 3Φ Fault with loss of one transformer (P3-3)
- 3Φ Fault with loss of one shunt device (P3-4)

Multiple contingency (Category P4)

The assessment will consider selected Category P4 contingencies with the loss of multiple elements caused by a stuck breaker (non-Bus-tie Breaker for P4-1

¹ Includes per CAISO Planning Standards, Loss of Combined Cycle Power Plant Module as a Single Generator Outage Standard.

² Includes per CAISO Planning Standards, Loss of Combined Cycle Power Plant Module as a Single Generator Outage Standard.

through P4-5 and Bus-tie Breaker for P4-6) attempting to clear a SLG fault on one of the following:

- generator (P4-1)
- transmission circuit (P4-2)
- transformer (P4-3)
- shunt device (P4-4)
- bus section (P4-5)
- bus(es) associated with Bus-tie Breaker (P4-6)

Multiple contingency (Category P5)

The assessment will consider selected Category P5 contingencies delayed fault clearing due to the failure of a non-redundant relay protecting the faulted element to operate as designed, for one of the following:

- SLG Fault with loss of one generator (P5-1)
- SLG Fault with loss of one transmission circuit (P5-2)
- SLG Fault with loss of one transformer (P5-3)
- SLG Fault with loss of one shunt device (P5-4)
- SLG Fault with loss of one bus section (P5-5)

Multiple contingency (Category P6)

The assessment will consider selected Category P6 contingencies with the loss of two or more (non-generator unit) elements with system adjustment between them, which produce the most severe results.

Multiple contingency (Category P7)

The assessment will consider all Category P7 contingencies for a SLG fault with the loss of a common structure as follows:

- Any two adjacent circuits on common structure (P7-1)³
- Loss of a bipolar DC line (P7-2)

³ Excludes circuits that share a common structure or common right-of-way for 1 mile or less.

8.2 System Protection Analysis

The SIS will provide the preliminary protection and automation requirements for informational purposes only. Cost estimates and work scope for the protection and automation requirements will be provided if the project progresses to the Detailed Interconnection Study.

Per Section L2.1 of the PG&E Interconnection Handbook, PG&E protection requirements are designed and intended to protect PG&E's system only. Additional protection is typically needed to protect the Project facilities adequately. City of San Jose is responsible for protecting its own equipment.

8.3 Transmission Line Evaluation

PG&E's transmission line evaluation will identify any existing equipment requiring upgrades to mitigate any adverse impacts due to the Project. Preliminary scope of work and non-binding costs for these potential system upgrades will be included in the transmission line evaluation for the SIS. However, the feasibility, detailed scope of work, and detailed costs for these potential system upgrades are not included in the transmission line evaluation for the SIS.

Detailed cost estimates and work scope for the transmission line evaluation will be provided if the project progresses to the Detailed Interconnection Study.

8.4 Substation Evaluation

The substation evaluation will identify any existing equipment requiring upgrades to mitigate any problems caused by overstress or overload due to the Project. Preliminary scope of work and non-binding costs for these potential system upgrades will be included in the substation evaluation for the SIS. However, the feasibility, detailed scope of work, and detailed costs for these potential system upgrades are not included in the substation evaluation for the SIS.

Detailed cost estimates and work scope for the transmission line evaluation will be provided if the project progresses to the Detailed Interconnection Study.

8.5 Land Evaluation

For the SIS, PG&E's Land Department will not perform an evaluation to determine if any new land rights are necessary to upgrade PG&E facilities that may be impacted by the project, such as constructing the tie line or reconductoring of existing PG&E transmission lines, if required.

A land rights evaluation will be provided if the project progresses to the Detailed Interconnection Study.

9. Environmental Evaluation/ Permitting

9.1 CPUC General Order 131-D

The California Public Utilities Commission's (CPUC) General Order 131-D (GO 131-D) sets for the permitting requirements for certain electrical and generation facilities. GO 131-D was established by the CPUC to be responsive to: the requirements of the California Environmental

Quality Act (CEQA); the need for public notice and the opportunity for affected parties to be heard by the CPUC; and the obligations of the utilities to serve their customers in a timely and efficient manner.

Electric facilities between 50 and 200 kV are subject to the CPUC's Permit to Construct (PTC) review specified in GO 131-D, Section III.B. For facilities subject to PTC review, or for over 200 kV electric facilities subject to Certificate of Public Convenience and Necessity (CPCN) requirements specified in GO 131-D, Section III.A, the CPUC reviews utility PTC or CPCN applications pursuant to CEQA and serves as Lead Agency under CEQA. Section IX of GO 131-D discusses the requirements for PTC and CPCN applications.

Generally, PG&E takes approximately a minimum of 6-18 months to assemble a CPCN or PTC application, the majority of which time involves developing the required Proponent's Environmental Assessment (PEA). The CPUC review of such applications may take anywhere from 8 – 36 months depending on the specific project.

9.2 CPUC General Order 131-D – Permit to Construct/Exemptions

GO 131-D provides for certain exemptions from the CPUC PTC requirements for facilities between 50 and 200 kV. For example, Exemption f of GO 131-D (Section III.B.1.f) exempts from CPUC PTC permitting requirements power lines or substations between 50 - 200 kV to be constructed or relocated that have undergone environmental review pursuant to CEQA as part of a larger project, and for which the final CEQA document (Environmental Impact Report or Negative Declaration) finds no significant unavoidable environmental impacts caused by the proposed line or substation. Note, GO 131-D, Section III.B.2, discusses the conditions under which PTC exemption shall not apply (consistent with CEQA Guidelines).

After lead agency approval of the final CEQA document which confirms there are no significant environmental impacts associated with the PG&E scope of work, PG&E may be eligible to use Exemption f, and in doing so would follow certain limited public noticing requirements, including filing an informational Advice Letter at the CPUC, posting the project site/route, providing notice to the local jurisdiction(s) planning director and the executive director of the California Energy Commission (CEC), and advertising the project notice, for once a week for two weeks successively in a local newspaper. As part of an agreement with the CPUC Energy Division, PG&E informally provides a copy of the final CEQA document to the CPUC Energy Division for reference when the Advice Letter is pending before the CPUC.

Note, the CPUC rules for Advice Letters consider an Advice Letter to be in effect on

30th calendar day after the date filed, and GO 131-D specifies a minimum period of 45-days between advertising the notice for the project and when construction can occur.

Typically, PG&E may proceed with construction 45-days after it has filed its Advice Letter and has posted and advertised the project notice unless a protest is filed and/or CPUC staffs suspend the Advice Letter. If protests are filed, they must address whether PG&E has properly claimed the exemption. PG&E has 5 business days to respond to the protest and the CPUC will typically take a minimum of 30 days to review the protest and PG&E's response, and either dismiss the protests or require PG&E to file a Permit to Construct. PG&E has no control over the time it takes the CPUC to respond when issues arise. If the protest is granted, PG&E may then need to apply for a formal permit to construct the project (i.e., Permit to Construct). If PG&E facilities are not included in the larger project's CEQA review, or if the project does not qualify for the exemption due to significant, unavoidable environmental impacts, or if the exemption is subject to the "override" provision in GO 131-D, Section III.B.2, PG&E may need to seek approval from the CPUC (i.e., Permit to Construct) taking as much as 18 months or more since the CPUC would need to conduct its own environmental evaluation (i.e., Mitigated Negative Declaration or Environmental Impact Report).

Note, for projects undergoing no CEQA review but instead only undergoing a review under the

National Environmental Policy Act (NEPA) due to the lead agency being a federal agency (such as the BLM), GO 131-D technically does not allow for the use of Exemption f, when the environmental review is conducted only pursuant to NEPA and does not have a CEQA component. As such, PG&E would need to review such projects on a case-by-case basis with the CPUC to determine if the CPUC would allow the project to proceed under Exemption f or instead allow PG&E to proceed under an "expedited" PTC application by attaching the NEPA document in lieu of a PEA.

For projects that are not eligible for Exemption f, but have already undergone CEQA or NEPA review, PG&E may be able to file an "expedited" PTC application, which typically takes the CPUC approximately 4-6 months to process.

9.3 CPUC General Order 131-D – Certificate of Public Convenience & Necessity (CPCN) Exceptions

When PG&E's transmission lines are designed for immediate or eventual operation at 200 kV or more, GO 131-D requires PG&E to obtain a Certificate of Public Convenience and Necessity (CPCN) from the CPUC unless one of the following exceptions applies: the replacement of existing power line facilities or supporting structures with equivalent facilities or structures, the minor relocation of existing facilities, the conversion of existing overhead lines (greater than 200 kV) to underground, or the placing of new or additional conductors, insulators, or their accessories on or replacement of supporting structures already built.

Unlike Exemption f relating to the exemptions allowed from a Permit to Construct for electric facilities between 50 – and 200 kV, no such exemption exists for electric facilities over 200 kV transmission lines that have undergone environmental review pursuant to CEQA as part of a larger project, and for which the final CEQA document finds no significant unavoidable environmental impacts caused by the proposed line or

substation. Accordingly, PG&E would need to consult on a case-by-case basis with the CPUC for such projects CPUC would allow the project to proceed “exempt” or instead allow PG&E to proceed under an “expedited” CPCN application by attaching the final CEQA document in lieu of a PG&E Proponent’s Environmental Assessment. Such an expedited CPCN with the environmental review already completed by the lead agency that permitted the Interconnection Customer’s generator project, typically may take from only 4-6 months for the CPUC to process.

9.4 CPUC General Order 131-D – General Comments Relating to Environmental Review of PG&E Scope of Work as Part of the Larger Load Project

For the benefits and reasons stated above, It is assumed that the Interconnection Customer will include PG&E’s Interconnection Facilities and Network Upgrades work scope (including facilities to be constructed by others and deeded to PG&E) in the Interconnection Customer’s environmental reports/applications submitted to the lead agency permitting the Interconnection Customer’s larger load project (e.g., California Energy Commission or applicable local, state or federal permitting agency, such as the Bureau of Land Management), and that such agencies will review the potential environmental impacts associated with PG&E’s work scope in any environmental document issued. This may enable PG&E to proceed “exempt” from CPUC permitting requirements or under an “expedited” PTC or CPCN. However, depending on certain circumstances, the CPUC may still require PG&E to undergo a standard PTC or CPCN for the load tie line and Network Upgrades work associated with the Interconnection Customer’s Project. PG&E may also be required to obtain other authorizations for its interconnection facilities and network upgrades. Hence, the PG&E’s facilities needed for the project interconnection could require an additional two years, or more, to license and permit. The cost for obtaining any of this type of permitting is not included in the cost estimates.

Please see General Order 131-D. This document can be found in the CPUC’s web page at:

http://www.cpuc.ca.gov/PUBLISHED/GENERAL_ORDER/589.htm

9.5 CPUC Section 851

Because PG&E is subject to the jurisdiction of the CPUC, it must also comply with Public Utilities Code Section 851. Among other things, this code provision requires PG&E to obtain CPUC approval of leases and licenses to use PG&E property, including rights-of-way granted to third parties for Interconnection Facilities. Obtaining CPUC approval for a Section 851 application can take several months, and requires compliance with the California Environmental Quality Act (CEQA). PG&E recommends that Section 851 issues be identified as early as possible so that the necessary application can be prepared and processed. As with GO 131-D compliance, PG&E recommends that the project proponent include any facilities that may be affected by Section 851 in the lead agency CEQA review so that the CPUC does not need to undertake additional CEQA review in connection with its Section 851 approval.

9.6 PG&E scope of work NOT subject to CPUC General Order 131-D

Certain PG&E facilities and scope of work may not be subject to CPUC's GO 131D. In such instances, PG&E will follow the requirements of all applicable environmental laws and regulations and issue an in-house Environmental Clearance before commencement of construction activities.

10. Study Updates

This SIS will be performed in accordance to the assumptions listed in the Sections titled "[Study Assumptions](#)" and "[Power Flow Cases](#)". In the event that these assumptions are changed, an updating study may be required to re-evaluate City of San Jose' load increase impact on PG&E's electric system. City of San Jose would be responsible for paying for any such updating study.



**Pacific Gas and
Electric Company**

WE DELIVER ENERGY.

System Impact Study Plan Agreement

City of San Jose has reviewed the System Impact Study Plan for the request to increase load at their proposed project site served by PG&E's electric transmission system and agrees to the study and assumptions outlined in this Study Plan.

City of San Jose agrees to pay up to the estimated \$40,000 study fee under the IA.

Dated this 19th day of April, 2021

City of San Jose:

BY: 
(Signature)

Leland Wilcox
(Type or Print Name)



Senior Deputy City Attorney

Luisa Elkins

Apr 17, 2021

MAILING ADDRESS:






Downtown San Jose System Impact Study Plan (PG&E)

Final Audit Report

2021-04-17

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By:	Jeannette Mestaz (jeannette.mestaz@sanjoseca.gov)
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