

**ATTACHMENT 2:  
AGENCY CORRESPONDENCES**

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AGENCY CORRESPONDENCES**

**CITY OF SAN DIEGO**

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**ATTACHMENT 2  
AGENCY CORRESPONDENCES**

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**From:** [Washington, Gina](#)  
**To:** [Leo Mena](#)  
**Cc:** [Jeff Thomas](#); [Miller, Betsy](#); [Haupt, Steve](#); [Fontana, Melanie](#)  
**Subject:** RE: Sycamore Penasquitos Project - Access Roads  
**Date:** Friday, December 04, 2015 1:53:01 PM  
**Attachments:** [DMMP SDG&E project.jpg](#)  
[Barrier illustration.docx](#)

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I'm sorry Leo I thought I'd responded to you but apparently I just sent you a blank email. The road you are suggesting to block off is both a major recreational trail and maintenance/emergency access for ranger staff. We would need to come up with a solution that allowed unhindered bicycle/hiker/equestrian access during the day and movable vehicle access. A 4' wide opening would suffice for the trail access.

I've attached a map showing good places for the barrier and an illustration of what I'm talking about. We would also prefer that green "snow fencing" be used instead of orange. Orange is always perceived as development and loss of trails/habitat. Making it green is a small thing for good p.r.

Gina Washington  
Senior Park Ranger  
City of San Diego  
Park & Recreation Department  
202 C. Street Fifth Floor MS 5D  
San Diego, CA 92101  
858.538.8066 PH  
858.536.8334 FAX

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**From:** Leo Mena [mailto:[leo.mena@panoramaenv.com](mailto:leo.mena@panoramaenv.com)]  
**Sent:** Friday, December 04, 2015 12:51 PM  
**To:** Washington, Gina  
**Cc:** Jeff Thomas; Miller, Betsy; Haupt, Steve  
**Subject:** Re: Sycamore Penasquitos Project - Access Roads

Hi, I wanted to follow up on this issue that I emailed you about.

Please email me back or give me a call at [650.290.7217](tel:650.290.7217) at your convenience.

Thank you,  
Leo Mena

**Leo Mena, Environmental Analyst**

Panorama Environmental, Inc.  
One Embarcadero Center, Suite 740  
San Francisco, CA 94111  
o. 650.290.7217  
[www.panoramaenv.com](http://www.panoramaenv.com)

On Mon, Nov 23, 2015 at 6:41 AM, Washington, Gina <[GWashington@san Diego.gov](mailto:GWashington@san Diego.gov)> wrote:

Gina Washington

On Nov 20, 2015, at 4:09 PM, Leo Mena <[leo.mena@panoramaenv.com](mailto:leo.mena@panoramaenv.com)> wrote:

Hi,

My name is Leo Mena, I'm working on the Sycamore-Penasquitos Transmission Line Project. I believe you have been in contact previously with the project manager (Jeff Thomas).

I was hoping that you could help me answer one thing. We are currently preparing the Final EIR. One of the mitigation measures we included in the EIR was to block off access to access roads located within Del Mar Mesa Preserve and which contains many road pools and potential vernal pools on the roads. Below you can see the area I'm referring to. My question is whether it would be possible to place orange construction fencing to block access or whether that would conflict with City vehicles that would need to use the access roads that our project would block off. If the fencing cannot be used, could something else be placed there that would block access but could be movable in the scenario that a City vehicle would need to use the access road.

Please email me back or give me a call at [650.290.7217](tel:650.290.7217) at your convenience.

<image.png>

Thank you,  
Leo

Leo Mena, Environmental Analyst

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San Francisco, CA 94111

o. 650.290.7217

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4' wide trail opening and movable gate

4' wide trail opening and movable gate

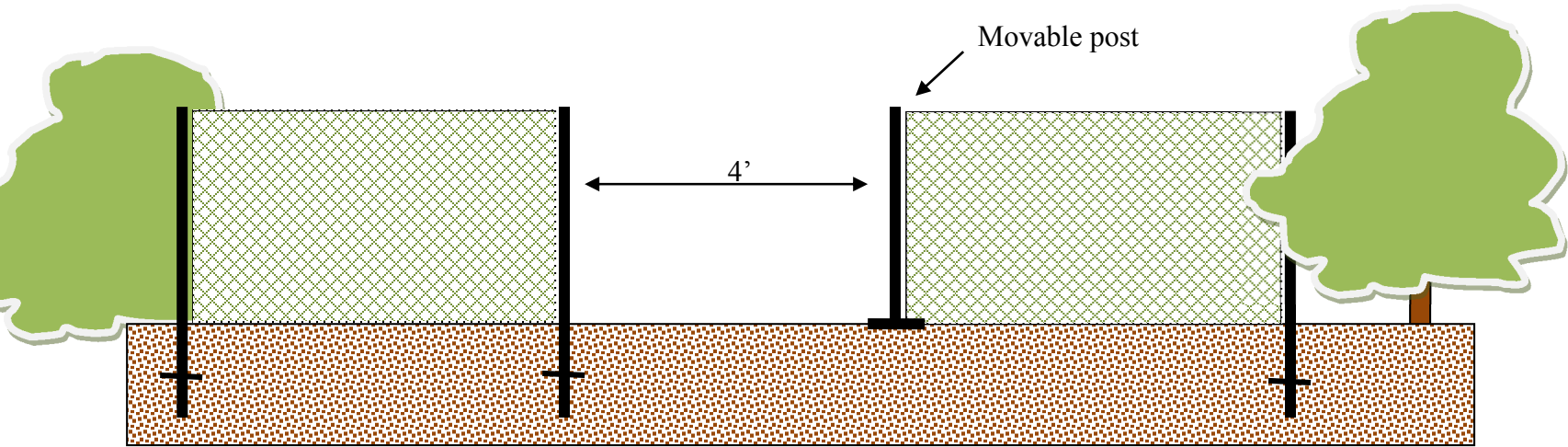
War Mesa Trail

© 2015 Google

Google earth

1994

32°56'46.19" N 117°09'55.48" W elev 417 ft eye alt 3027 ft





## Susanne Heim

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**From:** Partow, Hooman [mailto:[HPartow@san Diego.gov](mailto:HPartow@san Diego.gov)]  
**Sent:** Tuesday, December 08, 2015 3:14 PM  
**To:** Jeff Thomas; Rubalcava, Eric  
**Cc:** Amen, Rania; Billie C. Blanchard  
**Subject:** RE: Sycamore- Penasquitos 230 kv Transmission Line Draft EIR

Jeff,

Yes, as long as it follows the City standards. The proposed location would have to be reviewed for all impacts.

Developers typically place a permanent recycled water meter and drop tank on their property during grading operations and then use the meter later for irrigation.

Hooman Partow

---

**From:** Jeff Thomas [mailto:[jeff.thomas@panoramaenv.com](mailto:jeff.thomas@panoramaenv.com)]  
**Sent:** Tuesday, December 08, 2015 2:15 PM  
**To:** Partow, Hooman; Rubalcava, Eric  
**Cc:** Amen, Rania; Billie C. Blanchard  
**Subject:** RE: Sycamore- Penasquitos 230 kv Transmission Line Draft EIR

Hooman,

One final question – could SDG&E establish a “permanent” meter somewhere along their project alignment that would alleviate the water accessibility concern?

Jeff

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**From:** Partow, Hooman [mailto:[HPartow@san Diego.gov](mailto:HPartow@san Diego.gov)]  
**Sent:** Monday, December 07, 2015 2:43 PM  
**To:** Rubalcava, Eric; Jeff Thomas  
**Cc:** Amen, Rania; Billie C. Blanchard  
**Subject:** RE: Sycamore- Penasquitos 230 kv Transmission Line Draft EIR

Jeff,

There is enough supply available from the Reclamation Plant; however, I agree with the following SDG&E comment:

“Requiring SDG&E to solely use recycled water is infeasible given potential infrastructure constraints (Water Reclamation Plant shutdowns, fill station and distribution main access problems, etc.)”

Sincerely,

Hooman Partow, P.E.  
Senior Civil Engineer  
Recycled Water Program  
Public Utilities Department  
City of San Diego

**Quality, Value, Reliability - In Every Drop!"**



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**From:** Rubalcava, Eric  
**Sent:** Monday, December 07, 2015 1:00 PM  
**To:** Jeff Thomas  
**Cc:** Amen, Rania; Billie C. Blanchard; Partow, Hooman  
**Subject:** RE: Sycamore- Penasquitos 230 kv Transmission Line Draft EIR

Jeff, from what I know the City was not going to place restrictions on how much water the filling station would supply, but will let Hooman provide this answer.

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**From:** Jeff Thomas [<mailto:jeff.thomas@panoramaenv.com>]  
**Sent:** Monday, December 07, 2015 12:19 PM  
**To:** Rubalcava, Eric  
**Cc:** Amen, Rania; Billie C. Blanchard; Partow, Hooman  
**Subject:** RE: Sycamore- Penasquitos 230 kv Transmission Line Draft EIR

Thanks Eric. That is correct. SDG&E's anticipated construction start is for June 2016.

Aside from the site deliverability issue, is there an available recycled water supply if the project could need 25 million gallons over the 12-month construction period?

Jeff

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**From:** Rubalcava, Eric [<mailto:ERubalcava@sandiego.gov>]  
**Sent:** Monday, December 07, 2015 7:58 AM  
**To:** Jeff Thomas  
**Cc:** Amen, Rania; Billie C. Blanchard; Partow, Hooman  
**Subject:** RE: Sycamore- Penasquitos 230 kv Transmission Line Draft EIR

Jeff, as of now we don't have a filling station in the northern part of San Diego only in south county (near border), so SDGE is correct. We are however in the process of designing a commercial truck filling station in northern San Diego which should be able to supply all needed construction water. Is June 2016 still your target date? If so, the filling station might be operational by then, but no guarantees. For post construction permanent recycled water meters you need to coordinate with Hooman Partow, he is the recycled water senior engineer (cc in this email).

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**From:** Jeff Thomas [<mailto:jeff.thomas@panoramaenv.com>]  
**Sent:** Friday, December 04, 2015 2:16 PM  
**To:** Rubalcava, Eric  
**Cc:** Amen, Rania; Billie C. Blanchard  
**Subject:** RE: Sycamore- Penasquitos 230 kv Transmission Line Draft EIR

Hi Eric,

We received the Draft EIR comments below from SDG&E in response to one of the EIR impact sections and mitigation measures (also provided below) indicating that solely relying on recycled water for project construction (dust control and soil compaction) is infeasible, in part, due to a lack of availability. I've attached the City's prior letter to SDG&E which is referenced in the responses below. We'd like to know from the City's perspective if SDG&E's statements are

accurate regarding recycled water availability (both in terms of filling station infrastructure and in terms of available quantity). Let me know if there is someone else I should be coordinating through in this matter. Thanks, Jeff

Impact Analysis (from Utilities Section):

**Impact Utilities-4: Would the Proposed Project have sufficient water supplies available to serve the project from existing entitlements and resources, or require new or expanded entitlements? (*Less than significant with mitigation*)**

#### **Construction**

Water would be the primary means for dust control during construction. The Proposed Project requires 25 million of gallons of water for dust control, soil compaction, and landscaping during the 12-month construction period. As discussed in Impact Utilities-2, the use of 25 million gallons of water could pose a significant impact to water supplies because of current drought conditions. Thus, while the City of San Diego, Public Utilities Department confirmed the availability of 25 million gallons of potable and recycled water for the construction of the Proposed Project in June 2016, there would still be a potential significant impact to water supplies due to the drought conditions (City of San Diego 2014a). Mitigation Measure Utilities-1 requires SDG&E to only use reclaimed, non-potable water during construction and to confirm the availability of reclaimed, non-potable water for construction. Impacts would be less than significant after implementation of Mitigation Measure Utilities-1.

#### **Operation and Maintenance**

Water would be used in the post-construction period for site restoration where water would infiltrate the soil within applied areas. Water would be obtained from municipal suppliers and would likely be from a recycled water source. The amount of water required for operation and maintenance activities is estimated to be less than 77 acre-feet per year for up to 3 years of operation during vegetation establishment. Due to the drought conditions in California, water use for revegetation could potentially have a significant impact on water supplies. Mitigation Measure Hydrology-3 requires that SDG&E only use reclaimed, non-potable water for irrigation purposes. Impacts to the water supply would, therefore, be less than significant after implementation of Hydrology-3.

Mitigation Measures in Draft EIR:

#### **Mitigation Measure Utilities-1: Reclaimed Water Use for Dust Control.**

The water supply for project construction activities (e.g., dust control, soil compaction) shall be obtained from non-potable sources and ensured in a water contract through a local water agency or district. SDG&E shall provide verification that water will be obtained from a non-potable source to the CPUC a minimum of 60 days prior to the start of construction.

**Mitigation Measures Hydrology-3: Reclaimed Water Use for Irrigation.** Water for operation and maintenance activities, including irrigation of restoration areas, shall be obtained solely from reclaimed water sources. Groundwater shall not be used.

SDG&E Comments on Draft EIR:

“Requiring SDG&E to solely use recycled water is infeasible given existing infrastructure constraints (e.g. lack of reclaimed water distribution pipelines, lack of reclaimed water fill stations, reclamation plant maintenance and other capacity constraints, and lack of availability due to over subscription as a result of increasing demand from competing users). Therefore SDG&E will use reclaimed water to the extent feasible given these constraints.”

“The letter from Tatyana Fikhman to Todd Voorhees (City of San Diego 2014a) regarding availability of water for SDG&E’s proposed Sycamore to Peñasquitos 230 kilovolt transmission line project, Dated September 30 2014 did not mention any water supply constraints due to drought conditions. The letter states that “25 million gallons of potable and recycled water shall be available for Project use during construction which is currently scheduled to begin in June, 2016.” There is no need for the mitigation measure. Impacts to water supplies are less than significant since SDG&E received confirmation from the City of San Diego Public Utilities Department that 25 million gallons of both potable and recycled water are available for construction of the Proposed Project. Requiring SDG&E to

solely use recycled water is infeasible given potential infrastructure constraints (Water Reclamation Plant shutdowns, fill station and distribution main access problems, etc.) or supply limitations due to increasing demand.

Please remove sole use of reclaimed water requirement during construction and O&M activities throughout the document. SDG&E will use reclaimed water to the extent feasible."

**Jeff Thomas, Senior Manager**

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San Francisco, CA 94111

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**From:** Rubalcava, Eric [<mailto:ERubalcava@san Diego.gov>]  
**Sent:** Monday, September 28, 2015 1:23 PM  
**To:** [sycamorepenasquitos@panoramaenv.com](mailto:sycamorepenasquitos@panoramaenv.com)  
**Cc:** Amen, Rania; [jeff.thomas@panoramaenv.com](mailto:jeff.thomas@panoramaenv.com)  
**Subject:** Sycamore- Penasquitos 230 kv Transmission Line Draft EIR

Jeff, attached are our comments for the water review side of City of San Diego Public Utilities, Wastewater comments to follow. Thanks.

ES-52, There needs to be language more specific than "mitigation", there needs to be language that project will protect underground water and sewer utilities in place or relocate existing utilities prior to 230-kVTransmission Line Work.

4-17, There needs to be language in place in regards to expected water usage post construction, where the expected service will come from, and what day to day demand variations will be.

4-17 There needs to be language on protecting water lines in place or relocating prior to 230-kVTransmission Line Work.

4-17 Identify specific water lines that will be potentially impacted for each stretch of work. The ability to supply fire flow depends on impacted water utilities. Every water main out of service due to project will result in reduce fire flow supply for the region and water hydrants out of service. These impacts need to be identified to develop a contingency plan for water supply and emergency fire flow.

**Eric Rubalcava, P.E., MPA**

Senior Civil Engineer | EPM Division | Public Utilities Department

9192 Topaz Way | San Diego, CA 92123

Ph. (858) 654-4284 | [ERubalcava@san Diego.gov](mailto:ERubalcava@san Diego.gov)







**Sycamore-Penasquitos 230kV Project**  
**SDG&E/City of SD Meeting**  
**Friday, January 22, 2016 – 9:00AM – 10:30AM**  
**CoSD Engineering Field Division Office**

**Meeting Minutes**

I. Introductions - *Attendees:*

- *Frank Gaines- Senior Bridge Engineer/Deputy City Engineer, Field Engineering– CofSD*
- *Isac Vallejo – Civil Engineer, Field Engineering - CofSD*
- *Brian Vitelle – Civil Engineer, Field Engineering - CofSD*
- *George Gazallo –Civil Engineer, Transportation Dept - CofSD*
- *Dan Klausenstock – Engineering Manager – NV5*
- *Richard Rodriguez – Principal Engineer, Electric Transmission – SDG&E*
- *Vinh Huynh – Senior Engineer, Electric Transmission – SDG&E*

II. Project Overview

- a. Proposed Project
- b. Alternative 3
- c. Alternative 5

III. Potential City Bridge Crossings

- a. Proposed Project
  - i. Carmel Valley Road Bridge
- b. Alternative 3
  - i. Black Mountain Road Bridge
- c. Alternative 5
  - i. No City Bridges identified

IV. Precedent Installations

- a. *Pacific Coast Highway CalTrans Bridge – 230kV Installation, Installed 2007*
- b. *Harbor Drive City Bridge – 230kV Installation, Installed 2007*

- c. *Highway 94 CalTrans Bridge – 138kV Installation, Installed 2008*
- d. *Alpine Blvd. County Bridge – 230kV Installation, Installed 2012*
- e. *LADWP Ballona Creek CalTrans Bridge – 230kV Installation, Permitted 2015*

V. Mitigation Methods & Measures

- a. SDG&E Proposals
  - i. *Induction and voltage measurements on existing installations*
  - ii. *Cable Phase Transpositions*
  - iii. *Bonding and Grounding Mitigation Schemes*
- b. City of SD Requirements
  - i. *For permitting process, SDG&E to provide induction studies, reports, and sufficient mitigation methods and measures*

VI. Round Table

- a. *City of San Diego concurs that bridge installations above 69kV are not prohibited.*
- b. *Permitting to be reviewed on a case by case basis, if concerns and risks may be mitigated*
- c. *SDG&E to provide City of San Diego additional information regarding precedent installations, mitigation measures and reports upon permitting process*

**From:** [Gazallo, George](#)  
**To:** [Huynh, Vinh](#); [Gaines, Frank](#); [Vittle, Brian](#); [Chui, Gary](#); [Vallejo, Isac](#)  
**Cc:** [Rodriguez, Richard D.](#); [Dan Klausenstock](#); [Jack Abcarius](#); [Jeff Thomas](#)  
**Subject:** RE: SDG&E CVR Transmission Line Discussion  
**Date:** Friday, January 22, 2016 4:10:42 PM  
**Attachments:** [SX-PQ Project Minutes Jan-22-16.doc](#)

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Hi Vinh,

Thank you for meeting with the City this morning and listings other bridges in the City's, County's, and Caltrans' inventory that have these 230kV transmission lines installed. We also appreciate giving us more information about that project and explaining the possibility of induced voltage and the mitigations and measures for it.

While we understand that the preferred alternative for this project does not affect City bridges, we know that other alternatives identified do. As we mentioned in the meeting today, we are not completely opposed to having a 230kV line run through our bridges but would need further investigation and research done on existing bridges that do have the 230kV lines installed. We would also need more detailed information on the mitigations and measures.

Thanks,

*George Gazallo, P.E.*  
*Associate Civil Engineer*  
*City of San Diego*  
*Transportation Engineering Operations*  
*(619) 533-3183*

---

**From:** Huynh, Vinh [mailto:VHuynh@semprautilities.com]  
**Sent:** Friday, January 22, 2016 11:37 AM  
**To:** Gaines, Frank <FGaines@sandiego.gov>; Vitelle, Brian <BVittle@sandiego.gov>; Chui, Gary <GChui@sandiego.gov>; Gazallo, George <GGazallo@sandiego.gov>; Vallejo, Isac <IVallejo@sandiego.gov>  
**Cc:** Rodriguez, Richard D. <RDRodriguez@semprautilities.com>; Dan Klausenstock <DAN.KLAUSENSTOCK@nv5.com>; Jack Abcarius <JACK.ABCARIUS@nv5.com>  
**Subject:** RE: SDG&E CVR Transmission Line Discussion

Hello,

Thank you for your time during this morning's discussion. I have attached the minutes from our meeting based on what we discussed. Please review and advise if you have anything to add or change.

As discussed, we would certainly appreciate a response to show that the City of San Diego concurs that this potential 230kV bridge installation(s) is not completely prohibited and may be reviewed for permitting.

Thank you all!

Vinh Huynh, P.E.  
Senior Engineer  
Transmission Engineering & Design  
San Diego Gas & Electric  
O: 858.654.1754  
M: 858.610.1161

---

**From:** Gaines, Frank [<mailto:FGaines@sandiego.gov>]  
**Sent:** Thursday, January 21, 2016 5:47 AM  
**To:** Huynh, Vinh; Vitelle, Brian; Chui, Gary; Gazallo, George; Vallejo, Isac; Dan Klausenstock; Jack Abcarius; Rodriguez, Richard D.  
**Subject:** RE: SDG&E CVR Transmission Line Discussion

Thanks – we'll discuss Friday.  
Frank

---

**From:** Huynh, Vinh [<mailto:VHuynh@semprautilities.com>]  
**Sent:** Wednesday, January 20, 2016 4:14 PM  
**To:** Gaines, Frank ; Vitelle, Brian ; Chui, Gary ; Gazallo, George ; Vallejo, Isac ; Dan Klausenstock ; Jack Abcarius ; Rodriguez, Richard D.  
**Subject:** RE: SDG&E CVR Transmission Line Discussion

Good Afternoon Frank,

Thank you much for setting up this meeting. I have attached the meeting agenda, please let me know should anyone have anything to add or adjust.  
Per our recent discussions, we are not asking the City for an approval of the bridge attachments until everything has been vetted and you feel comfortable with the results.  
Our main point of this meeting is to show established precedents of these types of installations above 69kV and possible mitigation measures to minimize risks.

At this particular point in our Project, we just need to convey to the CPUC that the City is not completely prohibiting this and willing to review these installations on a case by case basis. We hope you have the same understanding? Please let us know if otherwise.

Thanks again.

Vinh Huynh, P.E.  
Senior Engineer  
Transmission Engineering & Design  
San Diego Gas & Electric  
O: 858.654.1754

M: 858.610.1161

-----Original Appointment-----

**From:** Gaines, Frank [<mailto:FGaines@sandiego.gov>]

**Sent:** Wednesday, January 13, 2016 7:19 PM

**To:** Gaines, Frank; Vitelle, Brian; Chui, Gary; Gazallo, George; Vallejo, Isac; Dan Klausenstock; Jack Abcarius; Huynh, Vinh

**Subject:** SDG&E CVR Transmission Line Discussion

**When:** Friday, January 22, 2016 9:00 AM-10:30 AM (UTC-08:00) Pacific Time (US & Canada).

**Where:** Conf Aero ECP Field Large

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**Re: Sycamore-Penasquitos 230-kV Transmission Line Project EIR review**

1 message

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**From:** Gazallo, George [mailto:[GGazallo@sandiego.gov](mailto:GGazallo@sandiego.gov)]

**Sent:** Thursday, January 28, 2016 11:07 AM

**To:** Jeff Thomas

**Cc:** Billie C. Blanchard; Susanne Heim; Chui, Gary; Gaines, Frank; Vallejo, Isac; Vitelle, Brian

**Subject:** RE: Sycamore-Penasquitos 230-kV Transmission Line Project EIR review

Hi Jeff,

Thanks for the phone call and follow up email you sent. As I mentioned in a previous email and phone call, we are not completely opposed to having a 230kV line run through our bridges but would need further investigation and research done on existing bridges that do have the 230kV lines installed. We also need more detailed information on the mitigations and measures. This would include alternatives that have the conduits either inside the bridge or attached on the outside. I would also assume that if the alternative chosen would attach the line to the bridge, the project would go through community planning groups and the City to get aesthetic approval as well.

Thanks,

*George Gazallo, P.E.*

*Associate Civil Engineer*

*Transportation Engineering Operations*

*(619) 533-3183*

**From:** Jeff Thomas [mailto:[jeff.thomas@panoramaenv.com](mailto:jeff.thomas@panoramaenv.com)]

**Sent:** Tuesday, January 26, 2016 3:41 PM

**To:** Gazallo, George <[GGazallo@sandiego.gov](mailto:GGazallo@sandiego.gov)>

**Cc:** Billie C. Blanchard <[billie.blanchard@cpuc.ca.gov](mailto:billie.blanchard@cpuc.ca.gov)>; Susanne Heim <[susanne.heim@panoramaenv.com](mailto:susanne.heim@panoramaenv.com)>

**Subject:** RE: Sycamore-Penasquitos 230-kV Transmission Line Project EIR review

George,

I'm sending this email as a follow-up to our discussion today and to confirm our understanding of the City of San Diego inputs thus far for the CPUC environmental review process. We understand that the City held a meeting with SDG&E on January 20<sup>th</sup> to review the proposed project design for the proposed underground alignment of the 230-kV transmission line along Carmel Valley Road. Based on that meeting, the City of San Diego concurred that bridge installations above 69-kV are not prohibited. Furthermore, bridge permitting would be reviewed on a case by case basis, and SDG&E would provide induction studies, reports, and sufficient mitigating methods and measures as part of the permitting process with the City.

I've also previously sent you maps of the other bridge locations within the City of San Diego associated with Alternatives 3 and 4 as described in the CPUC's environmental impact report for the project. These bridges would presumably be subject to the same understanding and permitting requirements above, should the CPUC adopt an alternative over the Proposed Project.

This morning we discussed the potential for attaching the 230-kV transmission line to the outside of any of these bridges instead of underneath the bridge decking in a structural bay. This method could be needed on a smaller bridge structure should the existing bays already be occupied by existing utilities or of insufficient size to accommodate the necessary conductor duct work. You confirmed that this has been accomplished on other SDG&E projects in the City and is feasible, again subject to the requirement of induction studies, reports, and sufficient mitigating methods and measures as part of the permitting process with the City.

It would be appreciated if you could reply and confirm that my understanding of the City of San Diego's position is accurate or provide any corrections or clarifications that you deem necessary. The CPUC wants to make sure that there is an accurate accounting of the City's position regarding feasibility as it affects our assessment of the Proposed Project and alternatives in the Final EIR.

Thanks,

Jeff

**Jeff Thomas, Senior Manager**  
**Panorama Environmental, Inc.**

One Embarcadero Center, Suite 740

San Francisco, CA 94111

**o.650.373.1200 • d.650.290.7216 • c.510.646.2145**

[www.panoramaenv.com](http://www.panoramaenv.com)

**From:** Jeff Thomas [mailto:[jeff.thomas@panoramaenv.com](mailto:jeff.thomas@panoramaenv.com)]  
**Sent:** Monday, January 11, 2016 2:32 PM  
**To:** 'Gazallo, George'  
**Cc:** Billie C. Blanchard  
**Subject:** FW: Sycamore-Penasquitos 230-kV Transmission Line Project EIR review

George,

Realized that there is one other bridge crossing associated with Alternative 3 in the EIR where a 230-kV crossing is proposed over Peñasquitos Canyon along Black Mountain Road. The attached map is provided as a reference for that location.

Also, I participated in a call with the SDG&E design team after we spoke on Friday. They were completely taken by surprise by the City's position that bridge crossings need to be 69-kV or less voltage. They started to cite examples of 230-kV crossings that they have built within the City of San Diego. The CPUC has asked them to follow-up on this matter with the City, so I hope that you will be hearing from them this week. We'd really appreciate any follow-up you can provide us once the City coordinates with SDG&E and finalizes a position.

Thanks,

Jeff

**Jeff Thomas, Senior Manager**  
**Panorama Environmental, Inc.**

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San Francisco, CA 94111

**o.650.373.1200 • d.650.290.7216 • c.510.646.2145**

[www.panoramaenv.com](http://www.panoramaenv.com)



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**From:** Yousef, Hasan [<mailto:HYousef@sandiego.gov>]  
**Sent:** Thursday, January 07, 2016 2:48 PM  
**To:** Jeff Thomas  
**Cc:** Chui, Gary; Marabian, Linda; Gazallo, George  
**Subject:** FW: Sycamore-Penasquitos 230-kV Transmission Line Project EIR review

Good afternoon Jeff,

I just spoke with some of our staff working on the project, they will be coordinating with Caltrans and George Gazallo will get back to you with the City's recommendation.

Thanks!

Hasan Yousef,

Deputy Director

City of San Diego | Transportation & Storm Water Department

(619) 533-3012 | [Hyousef@SanDiego.gov](mailto:Hyousef@SanDiego.gov)

Work in partnership with all of our communities to achieve safe and livable neighborhoods

City of San Diego Strategic Plan

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**From:** McFadden, Kris  
**Sent:** Tuesday, January 05, 2016 2:45 PM  
**To:** Jeff Thomas <[jeff.thomas@panoramaenv.com](mailto:jeff.thomas@panoramaenv.com)>; Yousef, Hasan <[HYousef@sandiego.gov](mailto:HYousef@sandiego.gov)>  
**Cc:** Billie C. Blanchard <[billie.blanchard@cpuc.ca.gov](mailto:billie.blanchard@cpuc.ca.gov)>; BIANES, Vic <[VBianes@sandiego.gov](mailto:VBianes@sandiego.gov)>  
**Subject:** RE: Sycamore-Penasquitos 230-kV Transmission Line Project EIR review

Hasan,

Please review and respond to this email. I believe this would start with DSD but please confirm.

Thanks,

Kris

---

**From:** Jeff Thomas [mailto:jeff.thomas@panoramaenv.com]  
**Sent:** Tuesday, January 05, 2016 11:47 AM  
**To:** McFadden, Kris <KMcFadden@sandiego.gov>  
**Cc:** Billie C. Blanchard <billie.blanchard@cpuc.ca.gov>  
**Subject:** Sycamore-Penasquitos 230-kV Transmission Line Project EIR review

Hi Kris,

I left you a voicemail message regarding this matter but wanted to follow-up with a little more detail. I'm reaching out on behalf of the California Public Utilities Commission (CPUC) regarding an SDG&E project that we are completing an environmental impact report (EIR) for. We are checking on the feasibility of specific components of the proposed project and alternatives as we work to complete the Final EIR. In this case, our question concerns the feasibility of attaching transmission lines to City-owned bridges. These are described below and locations are shown in the attached pdf. We need to know if the City has any feasibility concerns or specific policies/requirements that would affect the proposed routes below, understanding that SDG&E will be coordinating final engineering with the City following the CPUC's environmental review and approval process. As an example, Caltrans provided input regarding freeway overpasses indicating that the maximum allowable voltage in an overpass was a 69-kV power line, not a 230-kV transmission line.

SDG&E's proposed project includes an underground alignment along Carmel Valley Road between Black Mountain Ranch Community Park (near Black Mountain Road) and the Evergreen Nursery (near Via Abertura). The proposed project would install underground 230-kV duct bank in an alignment within Carmel Valley Road and would require placement in an empty bridge cell (hung under the bridge) about 1.2 miles west of Camino Del Sur (page 1 of attached pdf).

The EIR also considers an alternative alignment for a portion of the project (Alternative 4) that would install underground duct bank within Carmel Mountain Road, crossing two bridges (pages 2 and 3 of attached pdf). This alternative would either place two 69-kV power lines or one 230-kV transmission line under or attached to these bridge structures.

I'm not sure if the Transportation and Storm Water Department is the right group to be speaking with, so it would be appreciated if you could direct me to the appropriate department/staff should that be the case.

Thank you for your assistance.

Jeff

**Jeff Thomas, Senior Manager**  
**Panorama Environmental, Inc.**

One Embarcadero Center, Suite 740

San Francisco, CA 94111

[o.650.373.1200](tel:650.373.1200) • [d.650.290.7216](tel:650.290.7216) • [c.510.646.2145](tel:510.646.2145)

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ATTACHMENT 2  
AGENCY CORRESPONDENCES

**FEDERAL AVIATION ADMINISTRATION**

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**ATTACHMENT 2  
AGENCY CORRESPONDENCES**

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## Susanne Heim

---

**From:** Diana.Erazo@faa.gov  
**Sent:** Tuesday, December 15, 2015 8:03 PM  
**To:** jeff.thomas@panoramaenv.com  
**Cc:** billie.blanchard@cpuc.ca.gov; susanne.heim@panoramaenv.com; Barry.J.Davis@faa.gov; Donell.Johnson@faa.gov; Royal.Houston@faa.gov  
**Subject:** Re: CPUC EIR for the Sycamore-Penasquitos 230-kV Transmission Line

Hi Jeff,

Our Operations Engineering group conducted a preliminary analysis of the proposal submitted and the response is as follows:

"The potential for RFI is always a possibility with bad transmission lines (arcing conductors, bad insulators etc), and this impact will be greater with increased voltages. Provided the lines are properly insulated and maintained, I don't see any major concern from a rfi/spaceloss/line of sight analysis relating to comm. However, this is only an initial analysis and no binding determination can be issued until they go through the 7460 process and all potential nas facilities are reviewed".

Please ensure that the 7460 is filed to ensure a more thorough review of the proposal. If you have any questions on the review, please feel free to call me.

Thanks,

Diana

Sent from my iPad

On Dec 11, 2015, at 12:16 PM, Jeff Thomas <[jeff.thomas@panoramaenv.com](mailto:jeff.thomas@panoramaenv.com)> wrote:

Hi Diana,

Following up on our phone conversation, I've attached two pdf files for your team's reference. The draft EIR alt5 rte file represents the alternative as we had presented it in the Draft EIR with an above ground crossing of I-15 via 4 poles (all other portions of the alignment would be underground as partially shown in the pdf). The I-15 crossing options file was provided to us by SDG&E in their comments on the Draft EIR. For the above ground crossing, they have reduced the number of required pole structures to two. However, they have also presented the option of keeping the 230-kV line underground in Pomerado Road using available bridge bay space in the freeway overpass. We are confirming the feasibility of this option and hope to include it in the final EIR.

Please feel free to contact me with any questions.

Thanks,

Jeff

**Jeff Thomas, Senior Manager**

**Panorama Environmental, Inc.**

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San Francisco, CA 94111

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<image001.png>

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**From:** [Diana.Erazo@faa.gov](mailto:Diana.Erazo@faa.gov) [mailto:[Diana.Erazo@faa.gov](mailto:Diana.Erazo@faa.gov)]

**Sent:** Friday, December 11, 2015 9:27 AM

**To:** [Barry.J.Davis@faa.gov](mailto:Barry.J.Davis@faa.gov); [jeff.thomas@panoramaenv.com](mailto:jeff.thomas@panoramaenv.com)

**Cc:** [billie.blanchard@cpuc.ca.gov](mailto:billie.blanchard@cpuc.ca.gov); [susanne.heim@panoramaenv.com](mailto:susanne.heim@panoramaenv.com)

**Subject:** RE: CPUC EIR for the Sycamore-Penasquitos 230-kV Transmission Line

Good morning Jeff,

I have forwarded the information you provided to our Technical Support group to review and analyze for any impacts to our equipment here at SCT as a result of the 230KV transmission line install. I should have more information for you next week as to when we will have our analysis completed.

I left you a voice mail message this morning with my contact information. Feel free to contact me at 858-537-5502 should you have any questions/concerns.

Thank you,

Diana Erazo

SCT Technical Operations Manager

Los Angeles District

---

**From:** Davis, Barry J (FAA)

**Sent:** Thursday, December 10, 2015 6:56 PM

**To:** Jeff Thomas

**Cc:** Billie C. Blanchard; Susanne Heim; Erazo, Diana (FAA)

**Subject:** Re: CPUC EIR for the Sycamore-Penasquitos 230-kV Transmission Line

Hi Jeff,

Diana Erazo, our Technical Operations Manager, will be reaching out to you to discuss timeline for the review.

Regards,

Barry J Davis

iPhone: 425-698-3568

On Dec 10, 2015, at 1:21 PM, Jeff Thomas <[jeff.thomas@panoramaenv.com](mailto:jeff.thomas@panoramaenv.com)> wrote:



Thanks Barry. Do you have an estimated time for how long the review might take for our tracking purposes?

---

**From:** [Barry.J.Davis@faa.gov](mailto:Barry.J.Davis@faa.gov) [mailto:[Barry.J.Davis@faa.gov](mailto:Barry.J.Davis@faa.gov)]  
**Sent:** Wednesday, December 09, 2015 11:57 AM  
**To:** [jeff.thomas@panoramaenv.com](mailto:jeff.thomas@panoramaenv.com)  
**Cc:** [billie.blanchard@cpuc.ca.gov](mailto:billie.blanchard@cpuc.ca.gov); [susanne.heim@panoramaenv.com](mailto:susanne.heim@panoramaenv.com)  
**Subject:** Re: CPUC EIR for the Sycamore-Penasquitos 230-kV Transmission Line

Hi Jeff,

Thank you. I had an earlier heads-up from the Marines. I've forwarded this on to our Technical Operations Manager for review. My phone contact info is below if you need to reach me to discuss by phone.

Regards,  
Barry J Davis  
iPhone: 425-698-3568

On Dec 9, 2015, at 11:29 AM, Jeff Thomas <[jeff.thomas@panoramaenv.com](mailto:jeff.thomas@panoramaenv.com)> wrote:

Hello Barry,

Bill Sapp sent me your contact information (below) and suggested I reach out to you directly with my inquiry. I'm working with the California Public Utilities Commission on an environmental review for an SDG&E utility improvement project referred to as the Sycamore-Peñasquitos 230-kV Transmission Line. We've just completed the public review of a draft Environmental Impact Report (EIR) for the project and both MCAS Miramar and the Scripps Miramar Ranch Community Planning Group suggested that we connect with TRACON regarding the EIR's environmentally superior alternative known as Alternative 5. Alternative 5 is a mostly underground alignment in local streets that would include either placement of overhead 230-kV transmission lines across the I-15 freeway just north of the Pomerado Road Bridge crossing or within buried duct bank in the bridge and surrounding roadways (Pomerado/Miramar). This alignment could be approximately 1,000 feet away from the TRACON facility. The CPUC needs to know if there is any validity to electrical interference concerns posed by the community planning group as relates to your facility's operation, in addition to any other concerns that you may have with respect to the Alternative 5 alignment. I've attached an alternatives alignment overview figure for reference. In addition, the draft EIR can be obtained at the link below if you would like further information on the project. There are more detailed maps of the alternative alignment in the EIR appendices.

[http://www.cpuc.ca.gov/Environment/info/panoramaenv/Sycamore\\_Penasquitos/index.html](http://www.cpuc.ca.gov/Environment/info/panoramaenv/Sycamore_Penasquitos/index.html)

Please also note that following CPUC approval of either SDG&E's proposed project or an alternative, SDG&E will separately coordinate with the FAA per navigable airspace regulations (14 CFR Part 77 Regulation).

If you don't have any concerns with Alternative 5, an email response would suffice; however, we would be happy to set up a conference call to present the project and alternatives in more detail and to discuss any and all concerns that you may have.

Thanks for your attention in this matter. I can be reached at the contact info below. The CPUC project manager, Billie Blanchard, can be reached at (415) 703-2068 if you would like to speak to her directly.

Best regards,

Jeff

**Jeff Thomas, Senior Manager**

**Panorama Environmental, Inc.**

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San Francisco, CA 94111

o.650.373.1200 • d.650.290.7216 • c.510.646.2145

[www.panoramaenv.com](http://www.panoramaenv.com)

<image001.png>

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**From:** [William.D.Sapp@faa.gov](mailto:William.D.Sapp@faa.gov) [mailto:[William.D.Sapp@faa.gov](mailto:William.D.Sapp@faa.gov)]

**Sent:** Wednesday, December 09, 2015 7:05 AM

**To:** [jeff.thomas@panoramaenv.com](mailto:jeff.thomas@panoramaenv.com)

**Subject:** RE: CPUC EIR for the Sycamore-Penasquitos 230-kV Transmission Line

Jeff,

This is outside the scope of the FSDO. This questions should be asked to facility management at the TRACON. Please direct these questions to the TRACON Manager, Barry Davis at 858-537-5800 or [Barry.J.Davis@faa.gov](mailto:Barry.J.Davis@faa.gov). He will direct it to the appropriate department at TRACON.

Sincerely,

Bill

William D. Sapp  
Frontline Manager, Operations  
Federal Aviation Administration  
San Diego Flight Standards District Office  
8525 Gibbs Drive, Suite 120  
San Diego, CA 92123  
(858) 502-9882 X263  
[william.d.sapp@faa.gov](mailto:william.d.sapp@faa.gov)

---

**From:** Jeff Thomas [<mailto:jeff.thomas@panoramaenv.com>]  
**Sent:** Tuesday, December 08, 2015 2:17 PM  
**To:** Sapp, William D (FAA)  
**Cc:** Billie C. Blanchard  
**Subject:** RE: CPUC EIR for the Sycamore-Penasquitos 230-kV Transmission Line

Bill,

We need to know if there is an electrical interference concern on your part due to the potential placement of overhead 230-kV lines across the freeway or within buried duct bank in roadways within 1,00 feet or so of the TRACON facility.

Jeff

---

**From:** [William.D.Sapp@faa.gov](mailto:William.D.Sapp@faa.gov) [mailto:[William.D.Sapp@faa.gov](mailto:William.D.Sapp@faa.gov)]  
**Sent:** Monday, December 07, 2015 2:26 PM  
**To:** [jeff.thomas@panoramaenv.com](mailto:jeff.thomas@panoramaenv.com)  
**Subject:** RE: CPUC EIR for the Sycamore-Penasquitos 230-kV Transmission Line

Hi Jeff,

What did you need for us to do?

Bill

William D. Sapp  
Frontline Manager, Operations  
Federal Aviation Administration  
San Diego Flight Standards District Office  
8525 Gibbs Drive, Suite 120  
San Diego, CA 92123  
(858) 502-9882 X263  
[william.d.sapp@faa.gov](mailto:william.d.sapp@faa.gov)

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**From:** Jeff Thomas [<mailto:jeff.thomas@panoramaenv.com>]  
**Sent:** Friday, December 04, 2015 2:44 PM  
**To:** Sapp, William D (FAA)  
**Subject:** CPUC EIR for the Sycamore-Penasquitos 230-kV Transmission Line

Hello Bill,

It's been almost a year since we last spoke about this project with both you and Jerry. The Draft EIR was recently available for public review and we received the following comment from the U.S. Marine Corps on the environmentally superior alternative (Alternative 5):

For Alternative 5, we encourage the California Public Utilities

Commission to solicit comments from FAA  
Southern California  
Terminal Radar Approach Control Facilities  
(TRACON) staff  
regarding any impacts that the aboveground  
portion might have on  
their facility and/or operations. As a  
critical component of  
aviation safety in the Southern California  
region, any potential  
impacts to their operations would greatly  
concern us and could  
have serious ramifications on MCAS Miramar  
operations.

I've attached a map of the proposed alternative 5 alignment for  
reference. It's mostly underground; however, the crossing of I-15 would  
be overhead (that's the portion that is closed to the TRACON facility).  
We're also investigating the possibility of the conductor being hung  
from the bridge crossing at Pomerado Road.

I'd like to schedule a call with our CPUC Project Manager and  
appropriate FAA TRACON staff to discuss this alternative and get  
feedback but I need to know who that would be. Can you assist on this  
front?

Thanks,

Jeff

**Jeff Thomas, Senior Manager**  
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[www.panoramaenv.com](http://www.panoramaenv.com)

<image001.png>

<Syc-Pen\_Alternative\_Alignments.pdf>

<Draft\_EIR\_Alternative\_5\_Rte.pdf>

<I-15\_Crossing\_Options.pdf>

**From:** [robert.van.haastert@faa.gov](mailto:robert.van.haastert@faa.gov)  
**To:** [jeff.thomas@panoramaenv.com](mailto:jeff.thomas@panoramaenv.com)  
**Cc:** [Michael.Helvey@faa.gov](mailto:Michael.Helvey@faa.gov); [Chris.Shoulders@faa.gov](mailto:Chris.Shoulders@faa.gov); [cindy.whitten@faa.gov](mailto:cindy.whitten@faa.gov)  
**Subject:** FW: FAA requirements around lighted versus unlighted marker balls  
**Date:** Thursday, January 14, 2016 10:04:37 AM  
**Attachments:** [AC 70 7460-1L .pdf](#)

---

Hi Jeff,

Chris asked that I respond to you on the catenary marking and lighting requirements. Answers below.

If you would like a conference call, please contact me.

Robert van Haastert  
Supervisor, Obstruction Evaluation Group, AJV-15  
Office: 907-271-5863

*If you're not taking flak, then you're not over the target.*

---

**From:** Jeff Thomas [<mailto:jeff.thomas@panoramaenv.com>]  
**Sent:** Monday, January 11, 2016 4:49 PM  
**To:** Shoulders, Chris (FAA); Helvey, Michael (FAA)  
**Cc:** Billie C. Blanchard  
**Subject:** FAA requirements around lighted versus unlighted marker balls

Hello Michael and Chris,

I'm emailing you on behalf of the California Public Utilities Commission regarding the recently updated FAA Advisory Circular on Obstruction Marking and Lighting. We are in the process of preparing a final environmental impact report for a new 230-kV transmission line project in San Diego proposed by San Diego Gas & Electric (SDG&E) and have a number of questions regarding how the updated Circular could affect our project analysis. We've noted in the Circular that new transmission lines may require lighted marker balls for night visibility depending on how you interpret the guidance. We have not come across this before, and this is apparently new to SDG&E as we understand that none of their existing transmission line wiring is night-lighted. SDG&E is completing their own review of the Circular and will be separately seeking formal FAA determinations for their upcoming projects; however, we need to complete our due diligence review as part of the CPUC's independent environmental review of the project. We've developed a number of questions (below) that we would like to discuss with you or others on your staff so that we can better understand the implications this may have on our environmental analysis. Is there a good time to speak with you this week? I'd like to schedule a conference call including myself and the CPUC project manager at your convenience.

- 1) Are lighted marker balls automatically needed based on the line voltage? **YES, Lighted catenary markers are required for lines 69kV and greater; source paragraphs 3.5.1, 4.4.1., 10.2.1**
- 2) If not automatically needed, how likely is it that FAA review and determination will require

them in the project area based on the presence of nearby airports (MCAS Miramar) and canyon open space areas? IF FAA can't make a preliminary determination now, can additional parameters be provided around the circumstances where lighted marker balls would be mandated? **An aeronautical study will be conducted to determine marking and lighting requirements for aviation safety. Notice to the FAA is required when the transmission line is 200 feet or more above the canyon floor/river.**

- 3) Is this only applicable to new construction and utility improvements? **These requirements have not changed but have been detailed in the new Marking and Lighting advisory due to the number of questions we have received from transmission line proponents.**
- 4) Is it applicable to new construction in existing utility ROW where comparable voltage transmission lines already exist with unlighted marker balls? **Yes, transmission lines greater than 69kV have always had the requirement for lighted marker balls.**
- 5) Does FAA have additional details on the lighting requirements for marker balls (position on marker[top, bottom, sides?]) and number of lights required). **Please review the Appendix A drawings, figures A1 thru A5.**

I'm not sure who specifically we should be coordinating with regarding our questions, but greatly appreciate your assistance in this matter. I can also provide additional maps or project-related information if additional context is needed in responding to these questions.

Regards,

Jeff

Jeff Thomas, Senior Manager

ATTACHMENT 2  
AGENCY CORRESPONDENCES

**CALTRANS DISTRICT 11**

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**ATTACHMENT 2  
AGENCY CORRESPONDENCES**

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## Susanne Heim

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**From:** Jeff Thomas  
**Sent:** Thursday, December 10, 2015 11:39 AM  
**To:** Billie C. Blanchard  
**Cc:** Susanne Heim; Caitlin Gilleran  
**Subject:** FW: CPUC EIR for SDG&E Sycamore-Penasquitos 230-kV Transmission Line

I spoke with Kim Dodson at Caltrans yesterday. She brought up two points: 1) they need more information in order to assess any feasibility concerns regarding routing the 230-kV line in the Pomerado/Miramar overpass bridge; and 2) we need to connect with the City of San Diego as they are the local jurisdiction that appears to have ownership of the bridge. Regarding #1, I let Kim know that we've requested additional preliminary engineering information from SDG&E and that we'll share that when it becomes available with the hope that Caltrans can give us a preliminary review determination. Regarding #2, I'm going to contact the City Streets Division to obtain input on the bridge use. I'll contact the City once we have SDG&E's response to DR#18 (due today).

Jeff

---

**From:** Dodson, Kimberly@DOT [mailto:[kimberly.dodson@dot.ca.gov](mailto:kimberly.dodson@dot.ca.gov)]  
**Sent:** Wednesday, December 09, 2015 11:54 AM  
**To:** Jeff Thomas  
**Subject:** RE: CPUC EIR for SDG&E Sycamore-Penasquitos 230-kV Transmission Line

Hi Jeff:

Thank you for contacting me and providing me your contact information. I look forward to receiving preliminary plans or additional information for the new alternative for Pomerado Road Bridge I-15.

Regards,

**Kimberly D. Dodson, GISP**

Caltrans District II Planning|Associate Transportation Planner  
4050 Taylor St., MS-240|San Diego, CA [92110](tel:619-688-2510)|[kimberly.dodson@dot.ca.gov](mailto:kimberly.dodson@dot.ca.gov)|[619-688-2510](tel:619-688-2510)

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**From:** Jeff Thomas [mailto:[jeff.thomas@panoramaenv.com](mailto:jeff.thomas@panoramaenv.com)]  
**Sent:** Wednesday, December 09, 2015 11:48 AM  
**To:** Dodson, Kimberly@DOT  
**Subject:** CPUC EIR for SDG&E Sycamore-Penasquitos 230-kV Transmission Line

Hi Kim,

Here's my contact information. I will be in touch with more details on the Pomerado Road bridge crossing option of I-15 soon.

Best regards,

Jeff

**Jeff Thomas, Senior Manager**  
**Panorama Environmental, Inc.**

One Embarcadero Center, Suite 740  
San Francisco, CA 94111  
o.650.373.1200 • d.650.290.7216 • c.510.646.2145  
[www.panoramaenv.com](http://www.panoramaenv.com)



## Susanne Heim

---

**From:** Dodson, Kimberly@DOT  
**Sent:** Wednesday, December 16, 2015 9:22 AM  
**To:** Jeff Thomas  
**Cc:** Billie C. Blanchard; Susanne Heim; Armstrong, Jacob M@DOT  
**Subject:** RE: CPUC EIR for SDG&E Sycamore-Penasquitos 230-kV Transmission Line

Hi Jeff:

Thank you for your email. I have forwarded the information you provided to the various Divisions for review. I will follow up with you regarding the comments I receive.

Regards,

**Kimberly D. Dodson, GISP**

Caltrans District II Planning|Associate Transportation Planner  
4050 Taylor St., MS-240|San Diego, CA [92110](tel:619-688-2510)|[kimberly.dodson@dot.ca.gov](mailto:kimberly.dodson@dot.ca.gov)|619-688-2510

---

**From:** Jeff Thomas [<mailto:jeff.thomas@panoramaenv.com>]  
**Sent:** Friday, December 11, 2015 10:18 AM  
**To:** Dodson, Kimberly@DOT  
**Cc:** Billie C. Blanchard; Susanne Heim  
**Subject:** RE: CPUC EIR for SDG&E Sycamore-Penasquitos 230-kV Transmission Line

Kim,

We received the additional explanation below from SDG&E for their proposed construction methodology to utilize the Pomerado Road Bridge overpass of I-15 for undergrounding the 230-kV line. The attached exhibit was also provided. If I am understanding this information correctly, it looks like there would be no construction activity directly on I-15. We would greatly appreciate a preliminary response from Caltrans regarding the feasibility of this option and any big picture concerns you might have.

“The new 230kV underground system would cross through the Pomerado Bridge I-15 overcrossing using a design similar the Carmel Valley Road Bridge design included as part of the Proposed Project, Segment B (refer to DEIR Section 2.3.6.3, page 2-50). The duct system would utilize two empty bridge cells measuring approximately 5.4 feet high by 7.25 feet wide (see Attachment ED18 – Q8\_Pomerado Bridge Crossing). One of the two cells would require approximately 28-inch diameter bores at each end of the bridge to penetrate the abutment diaphragms and additional bores through the bent caps. The second cell being utilized has existing 26-inch by 26-inch utility openings which were provided for “future utility” and would not require boring. Two 24-inch steel casings would be inserted at both ends and grouted per Caltrans requirements. To provide working access to the cells, six total 28-inch by 28-inch openings would be cut in the bridge deck. Duct spacers and supports would be secured at 6-foot intervals along the length inside of the cell to support the ducts and maintain spacing. Construction of each conduit bank assembly through the two cells would be completed separately to minimize the traffic impact. Each assembly would require traffic control, K-rails, and the closing of one westbound lane. For the north assembly, one turn lane would be closed. For the south assembly one through lane would be closed. Working hours and restrictions would be dictated by the governing agencies. Once the duct package is installed through the bridge and tied into the duct system at both ends outside the bridge, all deck openings would be closed. Cable pulling would be conducted outside the Caltrans ROW.”

Thanks,

Jeff

**Jeff Thomas, Senior Manager**  
**Panorama Environmental, Inc.**

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**From:** Dodson, Kimberly@DOT [mailto:[kimberly.dodson@dot.ca.gov](mailto:kimberly.dodson@dot.ca.gov)]  
**Sent:** Wednesday, December 09, 2015 11:54 AM  
**To:** Jeff Thomas  
**Subject:** RE: CPUC EIR for SDG&E Sycamore-Penasquitos 230-kV Transmission Line

Hi Jeff:

Thank you for contacting me and providing me your contact information. I look forward to receiving preliminary plans or additional information for the new alternative for Pomerado Road Bridge I-15.

Regards,

**Kimberly D. Dodson, GISP**

Caltrans District II Planning|Associate Transportation Planner  
4050 Taylor St., MS-240|San Diego, CA [92110](tel:619-688-2510)|[kimberly.dodson@dot.ca.gov](mailto:kimberly.dodson@dot.ca.gov)|[619-688-2510](tel:619-688-2510)

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**From:** Jeff Thomas [mailto:[jeff.thomas@panoramaenv.com](mailto:jeff.thomas@panoramaenv.com)]  
**Sent:** Wednesday, December 09, 2015 11:48 AM  
**To:** Dodson, Kimberly@DOT  
**Subject:** CPUC EIR for SDG&E Sycamore-Penasquitos 230-kV Transmission Line

Hi Kim,

Here's my contact information. I will be in touch with more details on the Pomerado Road bridge crossing option of I-15 soon.

Best regards,

Jeff

**Jeff Thomas, Senior Manager**

**Panorama Environmental, Inc.**  
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San Francisco, CA 94111  
o.650.373.1200 • d.650.290.7216 • c.510.646.2145  
[www.panoramaenv.com](http://www.panoramaenv.com)



**From:** [Dodson, Kimberly@DOT](mailto:Dodson.Kimberly@DOT)  
**To:** [Jeff Thomas](mailto:Jeff.Thomas)  
**Cc:** [Billie C. Blanchard](mailto:Billie.C.Blanchard); [Susanne Heim](mailto:Susanne.Heim); [Armstrong, Jacob M@DOT](mailto:Armstrong.Jacob.M@DOT); [Andurlekar, Krishnakant R@DOT](mailto:Andurlekar.Krishnakant.R@DOT); [Rashedi, Ramin@DOT](mailto:Rashedi.Ramin@DOT); [Kurani, Elias K@DOT](mailto:Kurani.Elias.K@DOT); [Fernandes, Ruth L@DOT](mailto:Fernandes.Ruth.L@DOT)  
**Subject:** FW: CPUC EIR for SDG&E Sycamore-Penasquitos 230-kV Transmission Line  
**Date:** Tuesday, December 29, 2015 7:59:28 AM  
**Attachments:** [CALTRANS Encroachment permit manual-Section 608 final\\_04202015.pdf](#)

---

Hi Jeff:

My apologies for not sending this to you sooner. I have been out of the office. Please see the attached document from HQ Structures and the previous email in regards to running conduit through Pomerado Road Overcrossing.

Regards,

**Kimberly D. Dodson, GISP**  
Caltrans District 11 Planning|Associate Transportation Planner  
4050 Taylor St., MS-240|San Diego, CA 92110|[kimberly.dodson@dot.ca.gov](mailto:kimberly.dodson@dot.ca.gov)|619-688-2510

---

**From:** Andurlekar, Krishnakant R@DOT  
**Sent:** Wednesday, December 23, 2015 6:02 PM  
**To:** Dodson, Kimberly@DOT  
**Cc:** Rashedi, Ramin@DOT; Kurani, Elias K@DOT; Fernandes, Ruth L@DOT  
**Subject:** FW: CPUC EIR for SDG&E Sycamore-Penasquitos 230-kV Transmission Line

Hi Kimberly -

Running a high voltage transmission line (230 Kv) through Pomerado Road Overcrossing is not feasible considering

1. CALTRANS encroachment permit manual does not allow installation of high voltage utility conductors through our bridges for voltages above 69kV regardless of the bridge type.

Please refer the attached PDF for Utility Permits.

2. Coring of new 28 in dia. opening through bent cap and abutment diaphragm will require major retrofit to both, considering the depth of the structure, location and size of coring.

Please let me know if you need any additional information.

Thank you,

Krishnakant Andurlekar

Bridge Design Br 11  
Structure Design  
(916) 227-8381



[DES Contacts](#) | [Products & Services](#) | [DES Website](#)

**Caltrans Mission:** *Provide a safe, sustainable, integrated, and efficient transportation system to enhance California's economy and livability.*

**Caltrans Vision:** *A performance-driven, transparent, and accountable organization that values its people, resources and partners, and meets new challenges through leadership, innovation, and teamwork.*

**608 ENCROACHMENTS ON STRUCTURES (Rev 04/15)**

The Office of Structures Maintenance must review proposed encroachments on existing bridges and other existing structures. When a permit has been reviewed and approved one copy of the encroachment permit and completed plans authorizing work on structures is sent to the Office of Structures Maintenance and to headquarters Structures Construction.

Requests to place planting and landscape service facilities on existing structures, including outside surfaces, must be approved by Office of Structures Maintenance.

When a utility pipeline or encasement for a pipeline crosses a structure and has cathodic protection, that installation must be electrically isolated from the structure. Any cathodic protection anode bed or deep anode well shall not be placed near any structure or culvert.

When a utility conduit crosses a structure and has voltage conductors of 2000 volts and above, that installation must be evaluated for induced voltage in the rebar and prestress cables due to the close proximity to the high voltage conductors. The maximum voltage allowed in an electrical installation must never exceed 69kV regardless of the bridge type.

Installation of individual phase conductors housed in separate conduits or ducts that will pass through steel girder bridges is prohibited.

Specific induced voltage in rebar and prestress cables, stray current and cathodic protection mitigation issues must be directed to headquarters Office of Electrical, Mechanical, Water and Waste Water.

**608.1 State Contract Plans**

Structures Design must approve installation plans for each utility that encroaches on a new structure before an encroachment permit is issued. This review is coordinated through the District project engineer. After award of the contract, utility plans not reviewed previously by Structures Design should be sent to Structures Maintenance for review and approval. Installation of utility facilities in new structures is coordinated by the permit engineer through the District project engineer and solely by the permit engineer for existing structures. Installation of all relocated utility facilities is coordinated by District Right of Way.

**608.2 Requirements for Installing Utilities on Bridges**

Utility facilities on bridges must meet both the standard utility requirements and the additional requirements shown in Table 6.4 and Table 6.5

**Table 6.4**  
**Additional Requirements for Utility Facilities Located on Bridges**

Utility facilities located on bridges must comply with the standard requirements and the following additional requirements:

1. Location:
  - A. Permitted encroachments preferably shall be located between girders.
  - B. Encroachments should not be exposed to view, and shall not be permitted on the exterior of a bridge unless they are enclosed and appear as an integral part of the bridge.  
Structures Maintenance may approve exceptions for unusual circumstances.
  - C. On very wide structures having an expansion joint in the median, installation normally can occur between the two interior girders in the median.
2. Encroachment applications must include adequate plans of installation and pertinent details showing:
  - A. Bridge number
  - B. Location of encroachment on bridge
  - C. Method of attachment to bridge
  - D. Type of material transported
  - E. Weight per foot of facility including load, encasement, etc.
  - F. Maximum operating pressure
  - G. Maximum flow rate of high-pressure water lines in the event of a full rupture
  - H. Wall thickness of pipe
3. Gas pipelines require additional information according to CPUC General Orders.
4. Pipelines carrying highly volatile fluids must show the location of the nearest automatic shut-off valves on each side of the structure. Shut-off valves are required to be within a reasonable distance of the structure.
5. Pipelines conveying water, sewage, and low volatile fluids shall include evidence of compliance with corrosion control requirements of the Federal Department of Transportation and the CPUC.
6. Electrical and communication conduits must indicate maximum voltage and description of carrier conduit. Additional information such as induced voltage calculations may be required by Structures (e.g. "Data for High Voltage Cables on Bridges" form see Appendix D).
7. Access to utility facilities on undercrossing structures or bridges over waterways is prohibited from the surface of the traveled way of the State highway. Manholes in the shoulder area or sidewalk area may be authorized. Access to utility facilities on overcrossing structures, by means of manholes, may be authorized where necessary and feasible.
8. Basic Specifications
  - A. Exposed pipes or sleeves shall be painted or covered with an approved coating that shall match the color of the structure and be maintained to the satisfaction of Caltrans. The permittee shall pay the costs of repainting or protecting the encroachment.
  - B. High pressure systems:
    - 1) Shall conform to API specifications and to ASTM specifications covering sizes and types not covered by API.
    - 2) If operating pressures are over 200 psi:
      - Wall thickness shall conform to CPUC General Orders.
      - Maximum allowable hoop stresses for gas shall be 40 percent of the specified minimum yield strength.
      - Maximum allowable hoop stresses for other high volatile fluids shall conform to ANSI, except that the maximum hoop stress under the "test pressure" shall not exceed 90 percent of the yield strength.
      - A pressure test at 1.5 times maximum operating pressure shall be conducted for 24 hours.
      - Radiographic inspection of all field welds shall be made.
  - C. Sewer lines will not be steel pipe unless corrosion protective measures are provided.
  - D. Other pipelines may be steel, cast iron, ductile iron or approved material.
  - E. Electrical and communication conduits shall conform to CPUC General Orders. High voltage lines are not permitted where the traveling public could be endangered and/or the integrity of the bridge steel elements, rebar, and prestress cables is compromised due to the presence of excessive induced voltage in them.



ATTACHMENT 2  
AGENCY CORRESPONDENCES

**SAN DIEGO NATURAL HISTORY MUSEUM**

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**ATTACHMENT 2  
AGENCY CORRESPONDENCES**

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Leo Mena &lt;leo.mena@panoramaenv.com&gt;

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## Hybridized Nuttall's Scrub Oak - SDG&E Sycamore Penasquitos Project

3 messages

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**Leo Mena** <leo.mena@panoramaenv.com>

Tue, Jan 5, 2016 at 2:00 PM

To: jrebman@sdnhm.org

Hi Dr. Rebman,

My name is Leo Mena and I'm working on the Environmental Impact Report for the SDG&E Sycamore Penasquitos Transmission Line Project in San Diego. I believe that back in June 2014 you helped SDG&E identify difficult taxa during some plant surveys for the environmental review of their project. One of the plants you helped SDG&E identify was the Nuttall's scrub oak. They summarized their findings in their report. I provide the pertinent information below:

***Nuttall's scrub oak routinely hybridizes with other Quercus species, such as Q. engelmannii and Q. berberidifolia in San Diego County. One hybrid species, Torrey's scrub oak (Q. X acutidens), is common in San Diego County (Rebman 2014 pers. comm.) and was frequently observed within the BSA. Hybridization with other Quercus species represents a natural threat to the Nuttall's scrub oak (CNPS 2014).***

***A number of morphological characters were used to differentiate individual oaks as either Torrey's scrub oak (i.e., a hybrid oak) or Nuttall's scrub oak in the field. The first morphological character examined was growth habit and height. Nuttall's scrub oak consists of individuals with a mounded, impenetrable growth habit, 3 to 9 feet in height, whereas hybrids are usually more robust or tree like in growth form (Tucker 2013). Lateral terminal branches of Nuttall's scrub oak appear to be at perpendicular angles, whereas hybrids have an acute branching pattern. Nuttall's scrub oak, though generally evergreen, is not as densely leafy overall and on each branch as other sympatric oaks (Tucker 2013). Most importantly, individuals with softly spreading stellate hairs on the abaxial surface, not strongly appressed stellate hairs, were deemed Nuttall's scrub oaks (Munz 1974; Tucker 2013; Rebman 2014, pers. comm.). In the absence of other field characteristics, hairs were used as the definitive identification feature for Nuttall's scrub oaks (Rebman 2014, pers. comm.).***

We recently received a comment letter from CNPS that suggests that the trees that were classified as hybrid species are in fact Nuttall's scrub Oak. Here's what they wrote

***With one known exception that is not in the Project area, all the scrub oaks on Del Mar Mesa (Segment C) are Nuttall's scrub oaks, not hybrids or other species. Fred Roberts, who literally wrote the book (Illustrated Guide to the Oaks of the Southern California Floristic Province) has botanized the area. We examined over 100 oaks in the area, and found one putative hybrid. The oaks in the area are unusually large for Nuttall's scrub oaks, but it is because they are unusually old and in ideal habitat.***

We are trying to resolve the discrepancy between what CNPS is suggesting (Trees mapped as hybrids aren't hybrids) and what SDG&E concluded based on your support (Some trees are hybrid species) and I was hoping to get your help. Is there any merit to the comment made by CNPS?

Please feel free to call me at [650.290.7217](tel:650.290.7217).

Thank you,  
Leo

**Leo Mena, Environmental Analyst**

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One Embarcadero Center, Suite 740  
San Francisco, CA 94111  
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**Jon Rebman** <jrebman@sdnhm.org>  
To: Leo Mena <leo.mena@panoramaenv.com>

Wed, Jan 6, 2016 at 7:40 AM

Hi Leo,

I am currently in La Paz, BCS for the year and I have to admit that I don't exactly remember the specific specimens that were brought to me from this area. If specimens were made then I could go back and check them when I am back in San Diego. However, I would have only seen a few specimens from the given area and it is possible that some of those that I did look at were hybrids with *Q. dumosa*, but it is also possible that I saw specimens that had leaf character hairs of *Q. dumosa* and was told that these sample were from very large trees and I just assumed that they were hybrids in that case. Yes, there is merit to the CNPS comments because I would definitely think that there are many "good" individuals of *Q. dumosa* in the Del Mar Mesa area. In fact, I was botanizing out there last year before I left for Mexico and saw many individuals that were typical of *Q. dumosa* in that area. No matter what, even if I did see some samples of hybrid *Q. dumosa* that was brought in, it should be noted that these plants still had a lot of *Q. dumosa* in them (based on the trichome characters) and should probably be protected as if they were normal *Q. dumosa*. Oaks are infamous for hybridization as a natural part of their evolutionary history. These hybrid oaks might actually be a good thing for the species in the long run as they might help to diversify the genetics of this rare coastal species to help it adapt to any changes. Natural hybridization should not always be looked at as a threat, but also as an advantage to increase genetic diversity.

I hope that helps a bit!

Best regards!

Jon

Jon P. Rebman, Ph.D., Curator of Botany  
San Diego Natural History Museum  
Phone: (619) 255-0247  
P.O. Box 121390  
San Diego, CA 92112-1390  
<http://www.sdnhm.org/research/botany>

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**From:** Leo Mena <[leo.mena@panoramaenv.com](mailto:leo.mena@panoramaenv.com)>  
**Sent:** Tuesday, January 5, 2016 2:00 PM  
**To:** Jon Rebman  
**Subject:** Hybridized Nuttall's Scrub Oak - SDG&E Sycamore Penasquitos Project

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**Leo Mena** <leo.mena@panoramaenv.com>

Wed, Jan 13, 2016 at 2:38 PM

To: Jon Rebman <jrebman@sdnhm.org>

Thank you so much for your response.

Best,  
Leo

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