

California Transportation Commission

Senate Bill 671 Workgroup

Friday, May 13, 2022

10:00 am – 11:00 am

Via GoToWebinar

<https://attendee.gotowebinar.com/register/3768143317622821903>

Agenda

CALIFORNIA TRANSPORTATION COMMISSION STAFF CONTACTS:

Topic	Details
Welcome and Introductions	<ul style="list-style-type: none">• Welcome• Webinar Logistics
Key Focus Areas for Discussion	<ul style="list-style-type: none">• Overview of Project Request Form• Overview of CEQA Request
Closing and Next Steps	<ul style="list-style-type: none">• Thank you for Responding to the Information Request• Next Meeting on Friday, June 17, 2022

Hannah Walter, Associate Deputy Director- Hannah.Walter@catc.ca.gov

More information about the California Transportation Commission may be found on our [website](#).

Get the latest updates from the Commission on [Twitter](#) and [Facebook](#).



WORKGROUP

SENATE BILL 671

Meeting Agenda

- Overview of Project Request Form
- Overview of CEQA Request
- Next Meeting is on Friday, June 17, 2022

REQUIREMENT: GOVERNMENT CODE 14517(B)(3)(A) – (E) AND (8)

b) In developing the assessment, the commission shall identify all of the following...

(3) Projects that would achieve the goals of the assessment, including, but not limited to, all of the following projects:

- (A) Medium- and heavy-duty vehicle charging and fueling infrastructure.
- (B) Highway improvements needed to accommodate charging and fueling infrastructure, including parking facilities.
- (C) Highway improvements on the corridor to increase safety and throughput, such as dedicated truck lanes.
- (D) Improvements to local or connector streets and roads to support the corridor.
- (E) An identification of areas where micro-grids or similar technologies could be deployed for zero-emission vehicle charging or fueling.
- (8) Potential funding opportunities for project types.

FORM PURPOSE

1

Allows CTC to include project information in the report to the Legislature

2

Recommend any potential barriers to success and actions to resolve them

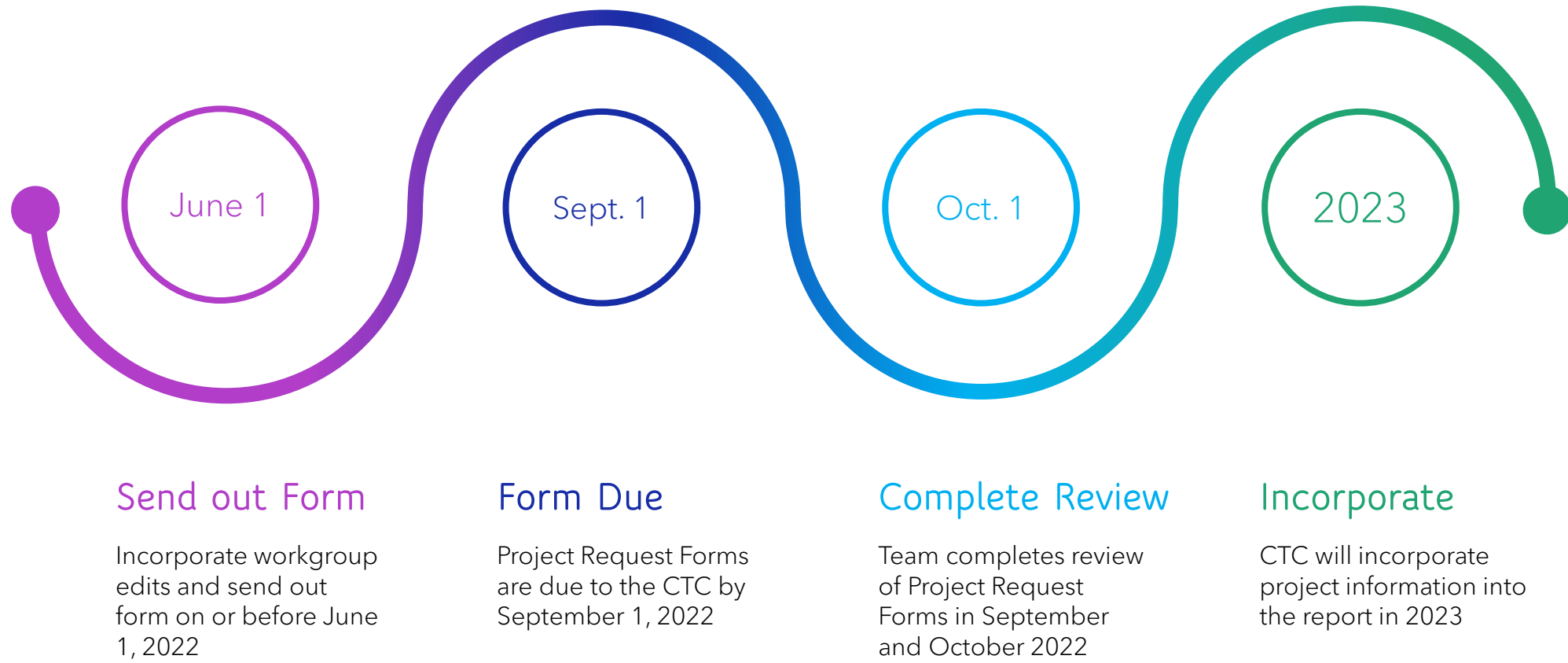
3

Allow the CTC, CEC, and CARB to become familiar with the project

4

Recommend potential funding sources for the project.

PROJECT REQUEST FORM TIMELINE



Review of projects must be completed before Trade Corridor Enhancement Program applications are due in November 2022.

Draft Project Request Form

A. General Project Compatibility with Government Code section 14517

Please check the box on the right in the table below to indicate which of the Government Code 14517(b)(3) section or sections this project falls under.

(A) Medium- and heavy-duty vehicle charging and fueling infrastructure.	
(B) Highway improvements needed to accommodate charging and fueling infrastructure, including parking facilities.	
(C) Highway improvements on the corridor to increase safety and throughput, such as dedicated truck lanes.	
(D) Improvements to local or connector streets and roads to support the corridor.	
(E) An identification of areas where micro-grids or similar technologies could be deployed for zero-emission vehicle charging or fueling.	

Applicant Information



Who is recommending this project?



Who will be responsible to implement the project?

Project Location Questions

C. Project Location

1. Please provide a map of the project location.
2. Describe the project location, including the entrance and exit points, and total square footage.

Site Location	Yes/No	Notes
Is the project located in relatively close proximity to one or more of the clean freight corridors identified by the SB 671 workgroup? ¹ Provide the approximate distance in miles in the notes section.		
Is the site within 500 feet of residential areas, schools, or parks?		

¹ Most maps are in the February 4th workgroup presentation, CTC staff are working on creating one map of all corridors.

Project Location Questions

Is the site located within a tidelands area? See <https://www.slc.ca.gov/land-types/> and <https://www.slc.ca.gov/water-boundaries/>.

Is the site located in one or more of the following: a community with a score of 60 or above in the CalEnviroScreen 4.0 tool, a low-income community, or an AB 617 community?

How much space will be built for medium-and heavy-duty trucks to pull into the station, and through the station after they are done charging and/or refueling? Workgroup members recommended .5 to 1 acre of space for heavy-duty.

Project Location Questions

Is there space for chargers accessible to individuals with disabilities? See [DSA's Access Compliance Advisory Manual](#) and [video](#).

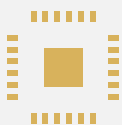
Is there space to add additional re-fueling dispensers or charging stations in the future?



Is the site for public use, private use, or both? If both, please provide percentages for each.



Is the site for overnight charging, opportunity charging, or both?



Will the site provide 24 hours of customer service? If no, how many hours of customer service will be provided and in what time windows? Will the customer service be provided in person or accessible some other way?



On average, how many trucks per day will be served at this site? To put this question another way, how many trucks per day will this site be designed to serve?

Is this estimate expected to change at some point in the future (if additional capacity will be added)?

Site Characteristics

Site Characteristics

What is the maximum anticipated number of trucks the site is designed to serve at one time? Is the site able to be expanded in the future to meet increasing ZEV demands?

How close is this proposed site to the nearest zero-emission infrastructure that could serve trucks? Is it a charging station or a hydrogen re-fueling station?

Is this site identified in the West Coast Collaborative Strategic Development Document, a Regional Transportation Plan, a Sustainable Communities Strategy, or any other planning document? If yes, please specify which document.

What local agencies have jurisdiction to approve and oversee this project? Have they been contacted? Have any concerns been identified by those Authorities?

Hydrogen Specific Questions

How many re-fueling dispensers will be on the site?

What is the maximum number of trucks that can be charged or re-fueled at one time?

Does the site contain a LD refueling dispenser(s)? Does the site have plans for a LD refueling dispenser in the future?

What is the hydrogen fill rate – H35 (35MPa) or H70 (70MPa), or other such as H70HF? What is the maximum flow rate during dispensing 60, 120, or 300 g/s?

Describe fueling process whether it is hybrid (cascading and direct compression) or just direct compression?

Describe the hydrogen distribution to this site. For example, will the hydrogen be produced on site, or be delivered to the site? If delivered, please state in what form: liquid truck delivery, gaseous truck delivery or gaseous pipeline delivery? If produced on site, what technology (e.g. steam methane reformation, electrolysis, etc.) will be used?

Hydrogen Specific Questions

Approximately how much hydrogen will be used by customers each day, and in a year? What is the anticipated maximum number of trucks served each day and in a year?

Please describe what the expected ramp-up in utilization in the first five years?

What is the planned carbon density of the hydrogen? How much of the hydrogen production energy (expressed as a percent) will be provided by renewable energy sources? How much of that renewable energy (expressed as a percent of total renewable energy) will be sourced from direct renewable energy use, as opposed to renewable energy credits.

Charging Station Specific Questions



How many charge ports will be on the site?



What charging level and power delivery will be provided (Level 3 at 50kW, 150kW, or other level)?



If known, what will the distance between the electrical panel/switchgear and the charger location be?



Will vehicle-to-grid capabilities be included in the station design?



Additional questions related to grid impacts are included in a separate section below.

Operations

- Who is the land-owner?
 - Who will own the infrastructure?
 - Is the infrastructure covered under warranty? What is covered and for how long?
 - If the person who owns the infrastructure is leasing the land, how long is the contract with the land-owner?
- Who is responsible to build the infrastructure?
 - Who will operate and maintain the infrastructure and for how long?
 - Will the operator pay a site-host fee to the land-owner?
 - Will the operator share revenues with the land-owner?

Project Schedule

Phase	Estimated Start Date	Estimated End Date
Planning and Environmental Documents Phase		
When is CEQA/NEPA clearance expected for the site?		
When is CEQA/NEPA clearance expected for any electric infrastructure upgrades or pipeline infrastructure (for hydrogen)?		
Design Phase		
Right-of-Way Phase		
Construction Phase		

Funding Questions

Phase	Total Estimated Cost	Funding Source if Using Private Funds
Planning and Environmental Documents Phase		
Design Phase		
Right-of-Way Phase		
Construction Phase		
Site Improvements (if any)		
Project Management		
Other Costs		
Total Project Cost		
Ongoing Costs		
Estimated Annual Operating Costs		
Estimated Annual Maintenance Costs		
Property Taxes (if applicable)		
Rent (if applicable)		
Contract Payments (if applicable)		
Other Ongoing Costs		

Details related to hydrogen stations
Hydrogen Procurement or Delivered Hydrogen Costs
Hydrogen Storage and Dispensing Equipment costs
Hydrogen Distribution Costs
Hydrogen Operational and Maintenance Costs
Testing, Verification, Certification etc. Costs
Other Costs

Funding
Questions

Funding Questions



Charging station equipment costs



Power supply equipment



Substation upgrades (if needed)



Estimated energy rate (number of kilowatts per hour multiplied by the estimated rate per kilowatt hour).



Estimated monthly demand charges (additional charge based on the highest 15-minute usage per month).



Note: Some demand charges will be implemented again starting March 1, 2024.



Other costs

Funding Questions

- Does the site owner and/or operator intend to use any of the following to support the ongoing costs of operating and maintaining the site?
 - Grants or subsidies (including Low Carbon Fuel Standard - LCFS and other credit program revenue)
 - User Fees
 - Indirect Revenues (such as sales from nearby retailers)

Grid Impacts



Where is the substation nearest to the project?



Here is an online map of substations: <https://cecgis-caenergy.opendata.arcgis.com/maps/7f37f2535d3144e898a53b9385737ee0>

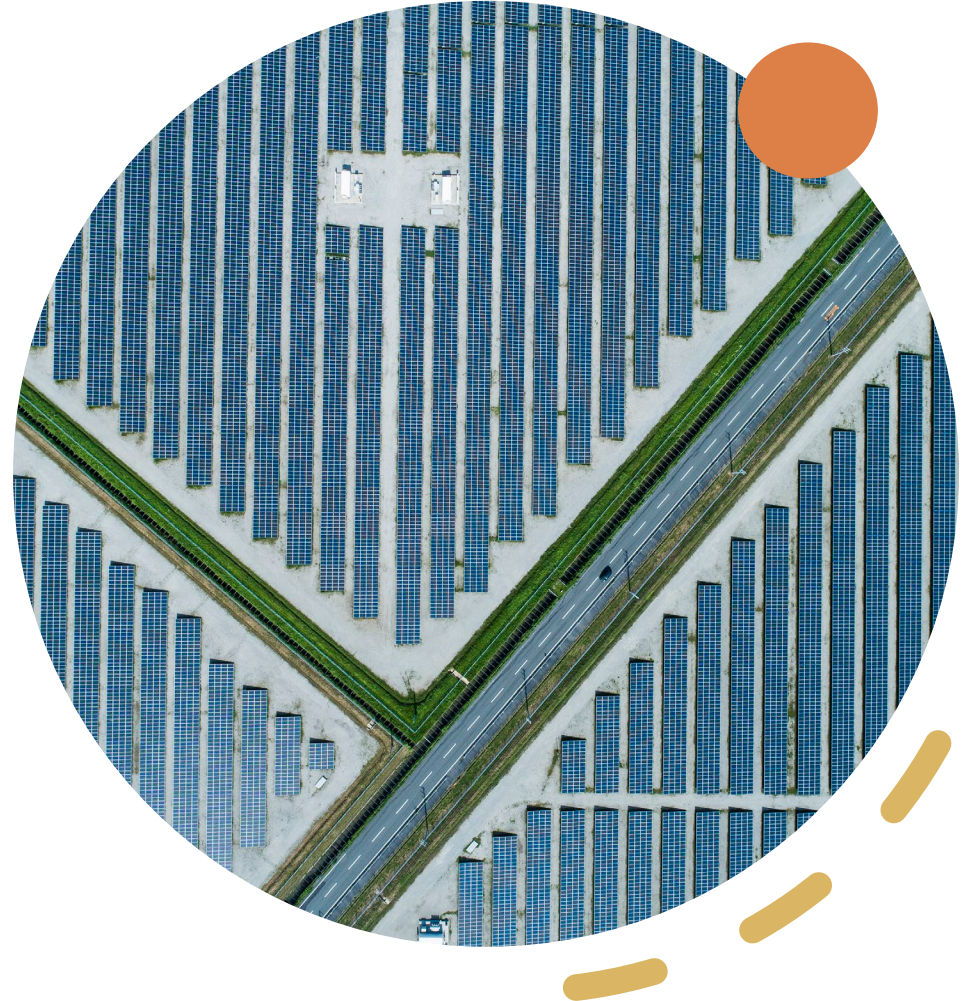


What provider, also known as Investor-Owned Utility (IOU), Publicly Owned Utility (POU), or Non-Investor-Owned Utility, is responsible for your project area?



Here are maps of IOUs, POUs, and Non-IOUs:

IOUs and POUs: [https://cecgis-caenergy.opendata.arcgis.com/datasets/electric load serving entities iou pou](https://cecgis-caenergy.opendata.arcgis.com/datasets/electric%20load%20serving%20entities%20iou%20pou)
Non IOUs [https://cecgis-caenergy.opendata.arcgis.com/datasets/electric load serving entities other](https://cecgis-caenergy.opendata.arcgis.com/datasets/electric%20load%20serving%20entities%20other)



Grid Impacts

What total daily level of power (in kW or MW) will be needed at the site?

Will any electric infrastructure upgrades be needed? If yes, describe what they are.

Is there access to 3-phase power?

Will the site use a micro-grid, battery storage, or solar panels?

Will any load management techniques will be used at the site? If so, please describe.

Other Information

- **Barriers and Solutions.** Describe any specific barriers or risks that may impact this project, and any proposed solutions if known. You may propose solutions that are not within the control of the implementing agency.
- **Avoiding Displacement.** Has the project team considered any methods to avoid displacement of residents and businesses within the project area? If yes, please describe what these are.
- **Benefits.** Once the project is built, what are the estimated annual benefits of this project in the following areas:
 - Environmental benefits
 - Air quality benefits
 - Public health benefits
 - Safety benefits
 - Economic benefits
- **EVSP Information.** Some Electric Vehicle Service Provider information may be requested in the form.

CEQA Request

CEQA Request - Worksheet

- **Question #1:** What are the physical aspects of the project? (Check all that apply and provide brief description of work, including any size or dimensions of the project). Additionally, provide site layout figure(s) showing locations of new or modified infrastructure, trenching, grading, paving, etc. Such figure(s) need not be engineering-grade; they simply should show the locations of the anticipated project components at the site.

Type of Project	Yes	No	Project Description
Ground disturbance (including grading, paving, trenching, etc.) Provide length and depth and describe whether the area(s) to be disturbed are previously disturbed.	<input type="checkbox"/>	<input type="checkbox"/>	
New or replaced pipelines	<input type="checkbox"/>	<input type="checkbox"/>	
Modification or conversion of a facility	<input type="checkbox"/>	<input type="checkbox"/>	
New or modified operation of a facility or equipment	<input type="checkbox"/>	<input type="checkbox"/>	
On-road demonstration	<input type="checkbox"/>	<input type="checkbox"/>	
EV infrastructure (how many, what kind, approximate dimensions)	<input type="checkbox"/>	<input type="checkbox"/>	
Electrical infrastructure	<input type="checkbox"/>	<input type="checkbox"/>	

CEQA Request – Worksheet (continued)

- **Question #1 (continued):** What are the physical aspects of the project? (Check all that apply and provide brief description of work, including any size or dimensions of the project). Additionally, provide site layout figure(s) showing locations of new or modified infrastructure, trenching, grading, paving, etc. Such figure(s) need not be engineering-grade; they simply should show the locations of the anticipated project components at the site.

Type of Project	Yes	No	Project Description
Solar component (extent of and general location at project site)	<input type="checkbox"/>	<input type="checkbox"/>	
Hydrogen fueling infrastructure	<input type="checkbox"/>	<input type="checkbox"/>	
Paper study (including analyses on economics, feedstock availability, workforce availability, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	
Laboratory research	<input type="checkbox"/>	<input type="checkbox"/>	
Temporary or mobile structures (skid-mounted)	<input type="checkbox"/>	<input type="checkbox"/>	
Design/Planning	<input type="checkbox"/>	<input type="checkbox"/>	
Other (describe and add pages as necessary)	<input type="checkbox"/>	<input type="checkbox"/>	

CEQA Request – Worksheet (continued)

- **Question #2:** Where is the project located or where will it be located?

Address	County	Would the project (or a portion of the project) be in Caltrans right-of-way?	Type of Work to Be Completed at Site

CEQA Request – Worksheet (continued)

- **Question #3:** Will the project potentially have environmental impacts that trigger review?

Question	Yes	No	Don't Know	Explanation
Is the land on which the project would be built previously disturbed? Please provide detail on how the land is previously disturbed, e.g., whether it is paved and/or graded.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the project site environmentally sensitive?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the project site on agricultural land?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is this project part of a larger project?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there public controversy about the proposed project or larger project?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Will <u>historic</u> resources or historic buildings be impacted by the project?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

CEQA Request – Worksheet (continued)

- **Question 3 (continued):** Will the project potentially have environmental impacts that trigger review?

Question	Yes	No	Don't Know	Explanation
Is the project located on a site the Department of Toxic Substances Control and the Secretary of the Environmental Protection have identified as being affected by hazardous wastes or cleanup problems?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Will the project generate noise or odors <u>in excess of</u> permitted levels?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Will the project increase traffic at the site and by what amount?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the project expected to result in environmental impacts to any other environmental resource topic (e.g., air quality, aesthetics, water quality)? (Add pages as necessary.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

CEQA Request – Worksheet (continued)

- **Question #4:** Will the project require discretionary permits or determinations, as listed below?

Type of Permit	No	Modified	New	Approving Agency	Reason for Permit, Summary of Process, and Anticipated Date of Issuance
Caltrans Encroachment Permit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Air Quality Permit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Water Quality Permit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Conditional Use Permit or Variance	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Building Expansion Permit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Hazardous Waste Permit	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Rezoning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Authority to Construct	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Other Permits (List types)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

CEQA Request – Worksheet (continued)

- **Question #5:** Of the agencies listed in #4, have you identified and contacted the public agency who will be the lead CEQA agency on the project?

Of the agencies listed in #4, have you identified and contacted the public agency who will be the lead CEQA agency on the project?

☐ **Yes.** Provide the name of and contact information for the Lead Agency.

☐ **No.** Explain why no contact has been made and/or a proposed process for making contact with the Lead Agency.

CEQA Request – Worksheet (continued)

- **Question #6:** If you identified one or more agencies with discretionary approval authority over the project (see Item 4 above) has the lead CEQA public agency (see item 5 above) prepared environmental documents (e.g., Notice of Exemption, Initial Study/Negative Declaration/Mitigated Negative Declaration, Environmental Impact Report, Notice of Determination) under CEQA for the proposed project?
- If yes, complete the following table.

Type of Environmental Review	Title of Environmental Document	State Clearinghouse Number	Completion Date	Planned Completion Date
"Not a project"		N/A		N/A
Exempt (Resolution of public agency or Agenda Item approving Exemption)		N/A		N/A
Exempt (Notice of Exemption)		N/A		
Initial Study				
Negative Declaration				
Mitigated Negative Declaration				
Notice of Preparation				
Environmental Impact Report				
Master Environmental Impact Report				
Notice of Determination				
NEPA Document (Environmental Assessment, Finding of No Significant Impact, and/or Environmental Impact Statement)				

CEQA Request – Worksheet (continued)

- **Question #7:** If No, explain why no document has been prepared. Propose a process for obtaining CEQA (and NEPA, if applicable) approval by the Lead Agency and estimated date for that approval. How long do you anticipate it will take to complete the CEQA (and NEPA, if applicable) process? Who would be the CEQA Lead Agency? If, applicable, who would be the NEPA Lead Agency?

☐ **No.** Explain why no document has been prepared. Propose a process for obtaining CEQA (and NEPA, if applicable) approval by the Lead Agency and estimated date for that approval. How long do you anticipate it will take to complete the CEQA (and NEPA, if applicable) process? Who would be the CEQA Lead Agency? If, applicable, who would be the NEPA Lead Agency?

Thank You

For questions please contact:
Hannah.Walter@catc.ca.gov