



SAN FRANCISCO PLANNING DEPARTMENT

CEQA CATEGORICAL EXEMPTION FORM

PROJECT NAME: Hetch Hetchy Powerhouse SCADA Upgrades

PROJECT LOCATION: Holm, Kirkwood and Moccasin Powerhouses

CASE NUMBER: 2014-002112ENV

PROJECT TYPE: New Facility Replacement Facility/Equipment
 Repair/Maintenance/Upgrade Other: _____

1. EXEMPTION CLASS

- Class 1: Existing Facilities
- Class 2: Replacement or Reconstruction
- Class 3: New Construction or Conversion of Small Structures
- Class 6: Information Collection
- Other: _____

2. CEQA Impacts

For any box checked below, refer to the attached Environmental Evaluation Application with supporting analysis and documentation.

- Air Quality: Would the project affect sensitive receptors (specifically schools, colleges, universities, day care facilities, hospitals, residential dwellings, or senior-care facilities)?
- Noise: Would the project conflict with the applicable local Noise Ordinance?
- Hazardous Materials: Would the project be located on a site included on any list compiled pursuant to Section 65962.5 of the Government Code, or impact an area with known hazardous materials such as a former gas station, auto repair, dry cleaners, heavy manufacturing use, or site with underground storage tanks?
- Soils Disturbance/Modification: Would the project result in soil disturbance greater than 2 feet below grade in archeological sensitive area or 8 feet in a non-archeological sensitive area?
- Biology: Would the project have the potential to impact sensitive species, rare plants or designated critical habitat? Is the project consistent with the applicable tree protection ordinance?

Visual: Is the project located within or adjacent to a designated scenic roadway, or would the project have the potential to impact scenic resources that are visible from public locations?

Transportation: Would project construction or operation have the potential to substantially interfere with existing traffic patterns or transit operations.

Historical Resources: Is the project located on a site with a known or potential historical resource?

Other: _____

3. CATEGORICAL EXEMPTION DETERMINATION

Further Environmental Review Required.

Notes: _____

No Further Environmental Review Required. Project is categorically exempt under CEQA.



Digitally signed by Chris Kern
DN: dc=org, dc=sfgov, dc=cityplanning,
ou=CityPlanning, ou=Environmental
Planning, cn=Chris Kern,
email=chris.kern@sfgov.org
Date: 2014.11.26 08:09:02 -08'00'

11/26/14

Planner's Signature

Date

Chris Kern, Senior Environmental Planner

Name, Title

Project Approval Action: Approval to award construction contract

Once signed and dated, this document constitutes a categorical exemption pursuant to CEQA Guidelines and Chapter 31 of the Administrative Code.



SAN FRANCISCO PLANNING DEPARTMENT

ENVIRONMENTAL EVALUATION APPLICATION COVER MEMO - PUBLIC PROJECTS ONLY

In accordance with Chapter 31 of the San Francisco Administrative Code, an appeal of an exemption determination can only be filed within 30 days of the project receiving the first approval action.

Please attach this memo along with all necessary materials to the Environmental Evaluation Application.

Project Address and/or Title:	SFPUC HHWP Powerhouse Control Upgrade: SCADA
Funding Source (MTA only):	
Project Approval Action:	Approval to award the construction contract would require a public hearing.
Will the approval action be taken at a noticed public hearing?	<input checked="" type="checkbox"/> YES* <input type="checkbox"/> NO
* If YES is checked, please see below.	

IF APPROVAL ACTION IS TAKEN AT A NOTICED PUBLIC HEARING, INCLUDE THE FOLLOWING CALENDAR LANGUAGE:

End of Calendar: CEQA Appeal Rights under Chapter 31 of the San Francisco Administrative Code If the Commission approves an action identified by an exemption or negative declaration as the Approval Action (as defined in S.F. Administrative Code Chapter 31, as amended, Board of Supervisors Ordinance Number 161-13), then the CEQA decision prepared in support of that Approval Action is thereafter subject to appeal within the time frame specified in S.F. Administrative Code Section 31.16. Typically, an appeal must be filed within 30 calendar days of the Approval Action. For information on filing an appeal under Chapter 31, contact the Clerk of the Board of Supervisors at City Hall, 1 Dr. Carlton B. Goodlett Place, Room 244, San Francisco, CA 94102, or call (415) 554-5184. If the Department’s Environmental Review Officer has deemed a project to be exempt from further environmental review, an exemption determination has been prepared and can be obtained on-line at <http://sf-planning.org/index.aspx?page=3447>. Under CEQA, in a later court challenge, a litigant may be limited to raising only those issues previously raised at a hearing on the project or in written correspondence delivered to the Board of Supervisors, Planning Commission, Planning Department or other City board, commission or department at, or prior to, such hearing, or as part of the appeal hearing process on the CEQA decision.

Individual calendar items: This proposed action is the Approval Action as defined by S.F. Administrative Code Chapter 31.

THE FOLLOWING MATERIALS ARE INCLUDED:

- 2 sets of plans (11x17)
- Project description
- Photos of proposed work areas/project site
- Necessary background reports (specified in EEA)
- MTA only: Synchro data for lane reductions and traffic calming projects

APPLICATION FOR Environmental Evaluation

1. Owner/Applicant Information

PROPERTY OWNER'S NAME: San Francisco Public Utilities Commission, Power Enterprise	
PROPERTY OWNER'S ADDRESS: 525 Golden Gate Avenue, 13th Floor San Francisco, CA 94102-3220	TELEPHONE: (415) 554-3155 EMAIL: www.sfwater.org

APPLICANT'S NAME: San Francisco Public Utilities Commission, Bureau of Environmental Management Same as Above <input type="checkbox"/>	
APPLICANT'S ADDRESS: 525 Golden Gate Avenue, 6th Floor San Francisco, CA 94102-3220	TELEPHONE: (415) 934-5700 EMAIL: BEM@sfwater.org

CONTACT FOR PROJECT INFORMATION: Barry Pearl, AICP, MPA, Senior Environmental Project Manager Same as Above <input type="checkbox"/>	
ADDRESS: 525 Golden Gate Avenue, 6th Floor San Francisco, CA 94102-3220	TELEPHONE: () EMAIL:

2. Location and Classification

STREET ADDRESS OF PROJECT: Dion R. Holm Powerhouse, Robert C. Kirkwood Powerhouse, Moccasin Powerhouse	ZIP CODE:
CROSS STREETS: Tuolumne County, CA	

ASSESSORS BLOCK/LOT: N/A / N/A	LOT DIMENSIONS: N/A	LOT AREA (SQ FT): N/A	ZONING DISTRICT: N/A	HEIGHT/BULK DISTRICT: N/A
COMMUNITY PLAN AREA (IF ANY): N/A				

3. Project Description

(Please check all that apply) <input type="checkbox"/> Change of Use <input type="checkbox"/> Change of Hours <input type="checkbox"/> New Construction <input type="checkbox"/> Alterations <input type="checkbox"/> Demolition <input checked="" type="checkbox"/> Other Please clarify: <u>System Control Data Systems</u>	ADDITIONS TO BUILDING: <input type="checkbox"/> Rear <input type="checkbox"/> Front <input type="checkbox"/> Height <input type="checkbox"/> Side Yard	PRESENT OR PREVIOUS USE: SFPUC Hydroelectric Powerhouses
		PROPOSED USE: SFPUC Hydroelectric Powerhouses
		BUILDING APPLICATION PERMIT NO.:

4. Project Summary Table

If you are not sure of the eventual size of the project, provide the maximum estimates.

	EXISTING USES:	EXISTING USES TO BE RETAINED:	NET NEW CONSTRUCTION AND/OR ADDITION:	PROJECT TOTALS:
PROJECT FEATURES				
Dwelling Units	N/A	N/A	N/A	N/A
Hotel Rooms	N/A	N/A	N/A	N/A
Parking Spaces	N/A	N/A	N/A	N/A
Loading Spaces	N/A	N/A	N/A	N/A
Number of Buildings	3 (one at each site)	3 (one at each site)	N/A	3 (one at each site)
Height of Building(s)	~30	~30	N/A	~30
Number of Stories	One	One	N/A	One
Bicycle Spaces	N/A	N/A	N/A	N/A
GROSS SQUARE FOOTAGE (GSF)				
Residential	N/A	N/A	N/A	N/A
Retail	N/A	N/A	N/A	N/A
Office	N/A	N/A	N/A	N/A
Industrial	N/A	N/A	N/A	N/A
PDR Production, Distribution, & Repair	N/A	N/A	N/A	N/A
Parking	N/A	N/A	N/A	N/A
Other (Specify Use)	N/A	N/A	N/A	N/A
TOTAL GSF	N/A	N/A	N/A	N/A

Please provide a narrative project description that summarizes the project and its purpose or describe any additional features that are not included in this table. Please list any special authorizations or changes to the Planning Code or Zoning Maps if applicable.

The SFPUC is registered as Generation Owner, Generation Operator, Transmission Owner, and Transmission Operator with the North American Electric Reliability Corporation (NERC) and is required to comply with NERC Critical Infrastructure Protection Standards. NERC is the electric reliability organization for North America, subject to oversight by the Federal Energy Regulatory Commission. The current SCADA system has limitations and the SFPUC has experienced many stability issues. The system will be replaced with a solution that allows the SFPUC to meet their regulatory obligations.

The proposed project would upgrade the protection, control, indication and monitoring system at all three powerhouses (Holm, Kirkwood and Moccasin). Because the systems are integrated, upgrades must be completed at the powerhouses at the same time in order to ensure the systems are compatible. Proposed improvements would include: • Replacement of electromechanical relays with multifunction digital relays to improve reliability and functionality of the electrical protection system, • De-terminating the wiring, • Removing relays from the main control board, and • Installing new relays and internal wiring.

Digital relays would be equipped with diagnostics that would notify the operator or sound an alarm if relay trouble occurs, thus preventing potential consequential failures, damage, and electrical safety hazards. The existing electromechanical type relays are not equipped with diagnostic capability and present a higher overall risk of failure. If an electromechanical relay fails, there is a loss of protection on the electric system that could prevent power generation.

5. Environmental Evaluation Project Information

1. Would the project involve a major alteration of a structure constructed 45 or more years ago or a structure in a historic district? YES NO

If yes, submit the *Supplemental Information for Historic Resource Evaluation* application.

2. Would the project involve demolition of a structure constructed 45 or more years ago or a structure located in a historic district? YES NO

If yes, a historic resource evaluation (HRE) report will be required. The scope of the HRE will be determined in consultation with Preservation Planning staff.

3. Would the project result in excavation or soil disturbance/modification? YES NO

If yes, please provide the following:

Depth of excavation/disturbance below grade (in feet): _____

Area of excavation/disturbance (in square feet): _____

Amount of excavation (in cubic yards): _____

Type of foundation to be used (if known) and/or other information regarding excavation or soil disturbance modification:

Note: A geotechnical report prepared by a qualified professional must be submitted if one of the following thresholds apply to the project:

- The project involves a lot split located on a slope equal to or greater than 20 percent.
- The project is located in a seismic hazard landslide zone or on a lot with a slope average equal to or greater than 20 percent and involves either
 - excavation of 50 or more cubic yards of soil, or
 - building expansion greater than 1,000 square feet outside of the existing building footprint.

A geotechnical report may also be required for other circumstances as determined by Environmental Planning staff.

4. Would the project involve any of the following: (1) construction of a new building, (2) relocation of an existing building, (3) addition of a new dwelling unit, (4) addition of a garage or parking space, (5) addition of 20 percent or more of an existing building's gross floor area, or (6) paving or repaving of 200 or more square feet of an existing building's front setback? YES NO

If yes, please submit a *Tree Planting and Protection Checklist*.

5. **Would the project result in any construction over 40 feet in height?** YES NO

If yes, please submit a *Shadow Analysis Application*. This application should be filed at the PIC and should not be included with the Environmental Evaluation Application. (If the project already underwent Preliminary Project Assessment, this application may not be needed. Please refer to the shadow discussion in the PPA letter.)

6. **Would the project result in a construction of a structure 80 feet or higher?** YES NO

If yes, an initial review by a wind expert, including a recommendation as to whether a wind analysis is needed, may be required, as determined by Planning staff. (If the project already underwent Preliminary Project Assessment, please refer to the wind discussion in the PPA letter.)

7. **Would the project involve work on a site with an existing or former gas station, auto repair, dry cleaners, or heavy manufacturing use, or a site with underground storage tanks?** YES NO

If yes, please submit a Phase I Environmental Site Assessment (ESA) prepared by a qualified consultant. If the project is subject to Health Code Article 22A, Planning staff will refer the project sponsor to the Department of Public Health for enrollment in DPH's Maher program.

8. **Would the project require any variances, special authorizations, or changes to the Planning Code or Zoning Maps?** YES NO

If yes, please describe.

9. **Is the project related to a larger project, series of projects, or program?** YES NO

If yes, please describe.

Estimated Construction Costs

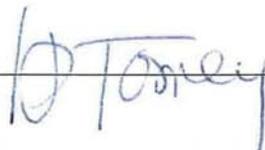
TYPE OF APPLICATION: N/A	
OCCUPANCY CLASSIFICATION: N/A	
BUILDING TYPE: Type 1	
TOTAL GROSS SQUARE FEET OF CONSTRUCTION: N/A	BY PROPOSED USES: Hydroelectric Powerhouse
ESTIMATED CONSTRUCTION COST: N/A	
ESTIMATE PREPARED BY:	
FEE ESTABLISHED:	

Applicant's Affidavit

Under penalty of perjury the following declarations are made:

- a: The undersigned is the owner or authorized agent of the owner of this property.
- b: The information presented is true and correct to the best of my knowledge.
- c: Other information or applications may be required.

Signature: _____



Date: 11/25/2014

Print name, and indicate whether owner, or authorized agent:

Irina P. Torrey, AICP, Manager, SFPUC BEM

Owner / Authorized Agent (circle one)

Environmental Evaluation Application Submittal Checklist

APPLICATION MATERIALS	PROVIDED	NOT APPLICABLE
Two originals of this application signed by owner or agent, with all blanks filled in.	<input type="checkbox"/>	
Two hard copy sets of project drawings in 11" x 17" format showing existing and proposed site plans with structures on the subject property and on immediately adjoining properties, and existing and proposed floor plans, elevations, and sections of the proposed project.	<input type="checkbox"/>	
One CD containing the application and project drawings and any other submittal materials that are available electronically. (e.g., geotechnical report)	<input type="checkbox"/>	
Photos of the project site and its immediate vicinity, with viewpoints labeled.	<input type="checkbox"/>	
Check payable to San Francisco Planning Department.	<input type="checkbox"/>	
Letter of authorization for agent.	<input type="checkbox"/>	<input type="checkbox"/>
<i>Supplemental Information for Historic Resource Evaluation</i> , as indicated in Part 5 Question 1.	<input type="checkbox"/>	<input type="checkbox"/>
<i>Historic Resource Evaluation</i> , as indicated in Part 5 Question 2.	<input type="checkbox"/>	<input type="checkbox"/>
Geotechnical report, as indicated in Part 5 Question 3.	<input type="checkbox"/>	<input type="checkbox"/>
<i>Tree Planting and Protection Checklist</i> , as indicated in Part 5 Question 4.	<input type="checkbox"/>	<input type="checkbox"/>
Phase I Environmental Site Assessment, as indicated in Part 5 Question 7.	<input type="checkbox"/>	<input type="checkbox"/>
Additional studies (list).	<input type="checkbox"/>	<input type="checkbox"/>

For Department Use Only

Application received by Planning Department:

By: _____

Date: _____



**SAN FRANCISCO
PLANNING
DEPARTMENT**

FOR MORE INFORMATION:
Call or visit the San Francisco Planning Department

Central Reception
1650 Mission Street, Suite 400
San Francisco CA 94103-2479

TEL: **415.558.6378**
FAX: **415 558-6409**
WEB: <http://www.sfplanning.org>

Planning Information Center (PIC)
1660 Mission Street, First Floor
San Francisco CA 94103-2479

TEL: **415.558.6377**
*Planning staff are available by phone and at the PIC counter.
No appointment is necessary.*



November 25, 2014

Mr. Timothy Johnston, MP, Environmental Planner
 Environmental Planning Division
 San Francisco Planning Department
 1650 Mission Street, Fourth Floor
 San Francisco, CA 94103

RE: CEQA Exemption Request
 Hetch Hetchy Water & Power
 Powerhouse Control Upgrade:
 Supervisory Control and Data
 Acquisition (SCADA)

Dear Timothy:

The San Francisco Public Utilities Commission (SFPUC) requests review of the proposed Hetch Hetchy Water and Power Powerhouse Control Upgrade: Supervisory Control and Data Acquisition (SCADA) Project under the California Environmental Quality Act (CEQA). SFPUC requests Environmental Planning Division (EP) concurrence that the proposed Project is categorically exempt under CEQA Section 15301, Class 1 (**Existing Facilities**). Class 1 consists of the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, involving negligible or no expansion of use. Subsection (b) provides an exemption for existing facilities of both investor and publicly owned utilities.

The following analysis demonstrates the proposed Project would not result in adverse environmental effects and provides support for our recommendation that the proposed activities are categorically exempt under CEQA. The Project would be conducted in compliance with applicable federal, State, and local regulations and under contractual provisions prohibiting work in violation of applicable regulations and plans.

BACKGROUND

The SFPUC is registered as Generation Owner, Generation Operator, Transmission Owner, and Transmission Operator with the North American Electric Reliability Corporation (NERC) and is required to comply with NERC Critical Infrastructure Protection Standards. NERC is the electric reliability organization for North America, subject to oversight by the Federal Energy Regulatory Commission. The current SCADA system has limitations and the

- Edwin M. Lee
Mayor
- Ann Moller Caen
President
- Francesca Viotor
Vice President
- Vince Courtney
Commissioner
- Anson Moran
Commissioner
- Harlan L. Kelly, Jr.
General Manager



Mr. Timothy Johnston, MP, Environmental Planner
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SFPUC has experienced many stability issues. The system will be replaced with a solution that allows the SFPUC to meet their regulatory obligations

PROJECT DESCRIPTION

The proposed project would upgrade the protection, control, indication and monitoring system at all three powerhouses (Holm, Kirkwood and Moccasin). Because the systems are integrated, upgrades must be completed at the powerhouses at the same time in order to ensure the systems are compatible. Proposed improvements would include:

- Replacement of electromechanical relays with multifunction digital relays to improve reliability and functionality of the electrical protection system,
- De-terminating the wiring,
- Removing relays from the main control board, and
- Installing new relays and internal wiring.

Digital relays would be equipped with diagnostics that would notify the operator or sound an alarm if relay trouble occurs, thus preventing potential consequential failures, damage, and electrical safety hazards. The existing electromechanical type relays are not equipped with diagnostic capability and present a higher overall risk of failure. If an electromechanical relay fails, there is a loss of protection on the electric system that could prevent power generation.

Furthermore, current regulatory requirements specify digital relays be maintained every five years instead of annually as required for the electromechanical type.

Much of the work to be completed to Upgrade the SCADA system involves replacement of computer hardware and software.

None of the proposed Upgrades would involve construction outside the powerhouses.

SCADA antenna installed on the powerhouses would not require replacement and would function with the proposed Upgrades.

Project Duration and Schedule

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Final design, procurement and installation would be completed within one year. Construction work would be conducted between 7:00 a.m. and 5:00 p.m. Monday through Friday. Evening and weekend work would not be required.

Project Equipment and Work Crew

Work crews typically would include about five to seven members. Two to four pickup trucks would be used to transport work crew members to and from the project sites each day.

Site Access and Staging

Project staging would take place within the properties of the powerhouses. All sites would be accessible over existing roadways.

SFPUC Standard Construction Measures

The SFPUC requires the Standard Construction Measures issued February 7, 2007 (on file at EP) be implemented as applicable, for all of its projects. Those measures applicable to this Project are included in the Project, as detailed below.

ENVIRONMENTAL INFORMATION

Aesthetics

Because none of the Upgrades would involve work outside the Powerhouses, there would be no adverse effects to the visual environment.

Air Quality

No construction work would take place outside the Powerhouses.

No sensitive receptors are located within 1,000 feet of either Holm or Kirkwood Powerhouse. Although sensitive receptors (HHWP staff and their families reside in the Town of Moccasin near the Powerhouse) are located within 1,000 feet of the Powerhouse, all work would take place inside the building.

Tuolumne County has not established regulations for construction emissions. Therefore, the proposed Project would not be subject to the Bay Area Quality Management District CEQA Air Quality Guidelines related to assessment of local community risk and hazard impacts for both single source and cumulative effects.

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Archeological Resources and Historical Resources

Dion R. Holm Powerhouse was built in 1960 and is therefore more than 50 years old. The other two powerhouses are less than 50 years old. None of the powerhouses have been identified as a historic or architectural resource.

No alterations of the exterior of any of the powerhouses are proposed.

Nor are any ground-disturbing activities proposed which would potentially encounter sub-surface cultural resources, if present.

Therefore adverse effects to cultural resources are not anticipated.

Biological Resources

None of the powerhouses are located in natural areas where species of concern may be present. Proposed Upgrades would not require tree trimming or tree removal resulting in potential adverse effects to nesting birds.

All three powerhouses are situated on paved land. Landscape vegetation is not planted around any of the powerhouses.

Therefore adverse effects to biological resources are not anticipated.

Hazards and Hazardous Materials

State Water Resources Control Board (SWRCB) Geotracker and State Department of Toxic Substances Control (DTSC) Envirostor databases were reviewed by SFPUC staff. No hazardous sites were found at or in the vicinity of the three powerhouses.

Should hazardous materials be encountered the construction contractor would be required to comply with standard contract technical specifications related to the characterization, transportation and disposal of hazardous materials (should they be present) and comply with applicable local, State and federal regulations related to hazardous materials.

Therefore, adverse effects resulting from construction worker or public exposure to hazardous materials are not anticipated.

Noise

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As discussed in the Air Quality Section above, no sensitive receptors are located in the vicinity of the Holm and Kirkwood Powerhouses. HHWP employees and their families reside in the Town of Moccasin in the vicinity of the Powerhouse.

Proposed Upgrades would all be completed inside the powerhouses.

In addition, Tuolumne County has not adopted an ordinance regulating construction noise.

Therefore adverse effects resulting from construction generated noise are not anticipated.

Recreation

No areas used for active or passive recreation are located within the boundaries of the powerhouses' sites.

Therefore adverse effects to recreational activities are not anticipated.

Transportation

Traffic generated by project activity at the three powerhouses would be limited to a minimum number of vehicles using lightly-traveled private roads. The number and types of vehicles used would not delay traffic on State Highways (Routes 49 and 120) in the vicinity.

Vehicles used by the project contractor will utilize available off-street parking spaces.

Adverse effects to transportation are not anticipated.

Water Quality

None of the proposed Upgrades would be conducted within waters of the United States or waters of the State.

Therefore adverse effects to water quality are not anticipated.

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CEQA COMPLIANCE RECOMMENDATION

The SFPUC recommends the proposed Hetch Hetchy Water & Power Powerhouse Control Upgrade: Supervisory Control and Data Acquisition (SCADA) be classified as categorically exempt under CEQA Guidelines Section 15301 (Existing Facilities), subsection (b).

If you have any questions regarding the proposed Projects, please contact Barry Pearl, Senior Environmental Project Manager, at 415-551-4573.

Sincerely,



Irina P. Torrey, AICP, Manager
Bureau of Environmental Management

Cc: Margaret Hannaford, Manager, Hetch Hetchy Water & Power Division
Jimmy Leong, Principal Engineer, Project Management Bureau
Richard M. Morales, Debt Manager, SFPUC
Barry Pearl, AICP, MPA, Senior Environmental Project Manager
Cheryl Sperry, Principal Administrative Analyst, HHWP