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DOCKET
04-AFC-1
DATE DEC 20 2005
RECD DEC 22 2005

December 20, 2005

Mr. William Pfanner
Siting Project Manager
California Energy Commission
1516 Ninth Street, MS-15
Sacramento, CA 95814-5504

RE: Amendment to the Project Description, Process and Cooling Water Supply San Francisco Electric Reliability Project (04-AFC-1)

Dear Bill:

In Supplement A, the City of San Francisco proposed the following for the process and cooling water supply:

> "The City will provide untreated process water (free of floatable matter and large debris) from a water pumping station to be constructed on Marin Street near Cesar Chavez, about 0.8 mile from the site. A new pipeline will be installed along Marin, Mississippi, and Cesar Chavez streets to convey the process water to a new recycled water treatment system located on the project site.
>
> The onsite treatment system will be designed to produce Title 22-quality recycled water, with the onsite treatment system providing primary, secondary, and tertiary treatment plus disinfection either by ultraviolet system or chlorination. The primary treatment will be accomplished by a traveling band screen, and the secondary treatment will be achieved in an aerobic tank to ensure proper biological activity. After the appropriate hydraulic retention time, the water will flow into the tertiary treatment system. The tertiary treatment and filtering will be achieved by incorporation of a Membrane BioReactor. The recycled water will then be disinfected and pumped to the recycled water storage tank for use within the plant for all non-potable water applications. This disinfected, tertiary treated water will meet the Title 22 criteria for recycled water."

With regard to water treatment chemicals, Supplement A contained the following discussion:

> "Water treatment chemicals stored at SFERP are sodium hypochlorite (400 gallons), sulfuric acid (400 gallons), and aluminum sulfate (800 gallons). These materials are additives used in the cooling tower or in the water treatment process. They are consumed in the process and produce no residual waste.

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The sodium hypochlorite is a 10 to 12 percent solution, which is used in the process water treatment system and the cooling tower to control biological growth (algae). The sodium hypochlorite will be stored in portable tote near the cooling tower and the water treatment building. It is expected that the stored volume will provide 33 days of maximum continuous operation. Under a period of daily operation (rather than continuous), the preceding estimated days of chemical storage may double or be even longer. The sodium hypochlorite will be stored in a bermed area for secondary containment (an area capable of capturing any spills) that will be designed such that incompatible chemicals will be separated from each other to eliminate potential interactions/reactions in the event that the chemicals are accidentally released. It is estimated that the spill containment volume will be approximately 100 cubic feet. "

Discussion of Proposed Change in Facility Description

During the City's recent preparation of technical documentation to support the construction bid package, a more economical refinement for treatment process and cooling water supply has been identified. This refinement results in a very minor change in our recycled water supply linear route and in the elimination of the previously planned treatment processes for the on-site water supply. The opportunity for this change was discovered during final value engineering, when our design engineers were developing the details to be included in the contract package regarding the water system. As shown on the attached figure, the SFERP is now proposing to access treated secondary effluent from a pressurized manhole in the Southeast Waste Water Treatment Plant (SEWWTP) outfall located approximately 2,600 feet from the SFERP. At this location, the water supply is of significantly better quality than the raw wastewater supply from the previously proposed collection box on Marin Street. The improvement in water quality eliminates the need for the traveling band screen and the on-site secondary treatment system using an aerobic tank, reducing the project cost and long-term maintenance requirements. Onsite water treatment will now be limited to tertiary treatment as follows: incoming secondary effluent water supply will go through ultra-filtration, disinfection, and then be passed through a single stage reverse osmosis treatment system. The resultant final water quality will meet full Title 22 tertiary recycled water requirements. Water treatment chemicals used in this proposed process (including the type and amount stored) remain unchanged from the description noted above.

On December 7, 2005 Applicant filed SFPUC Preliminary Staff Assessment Comments Set 4 concerning a database search of known sites in the vicinity of the plant and linear corridors. Applicant's response was filed as Attachment

WM-70A. This response is being updated to include the database search for the proposed new water supply corridor and will be provided under separate cover.

We appreciate staff's efforts to consider this change in the project description when performing their analysis and preparing their Final Staff Assessment. Please let us know if there is any additional information your staff needs to perform its analysis.

Sincerely yours,

Karen Kubick

Karen Kubick, PE
Power Enterprise
Manager of Infrastructure

ATTACHMENT

cc: Project File
Proof of Service List

bcc: Barbara Hale, AGM Power
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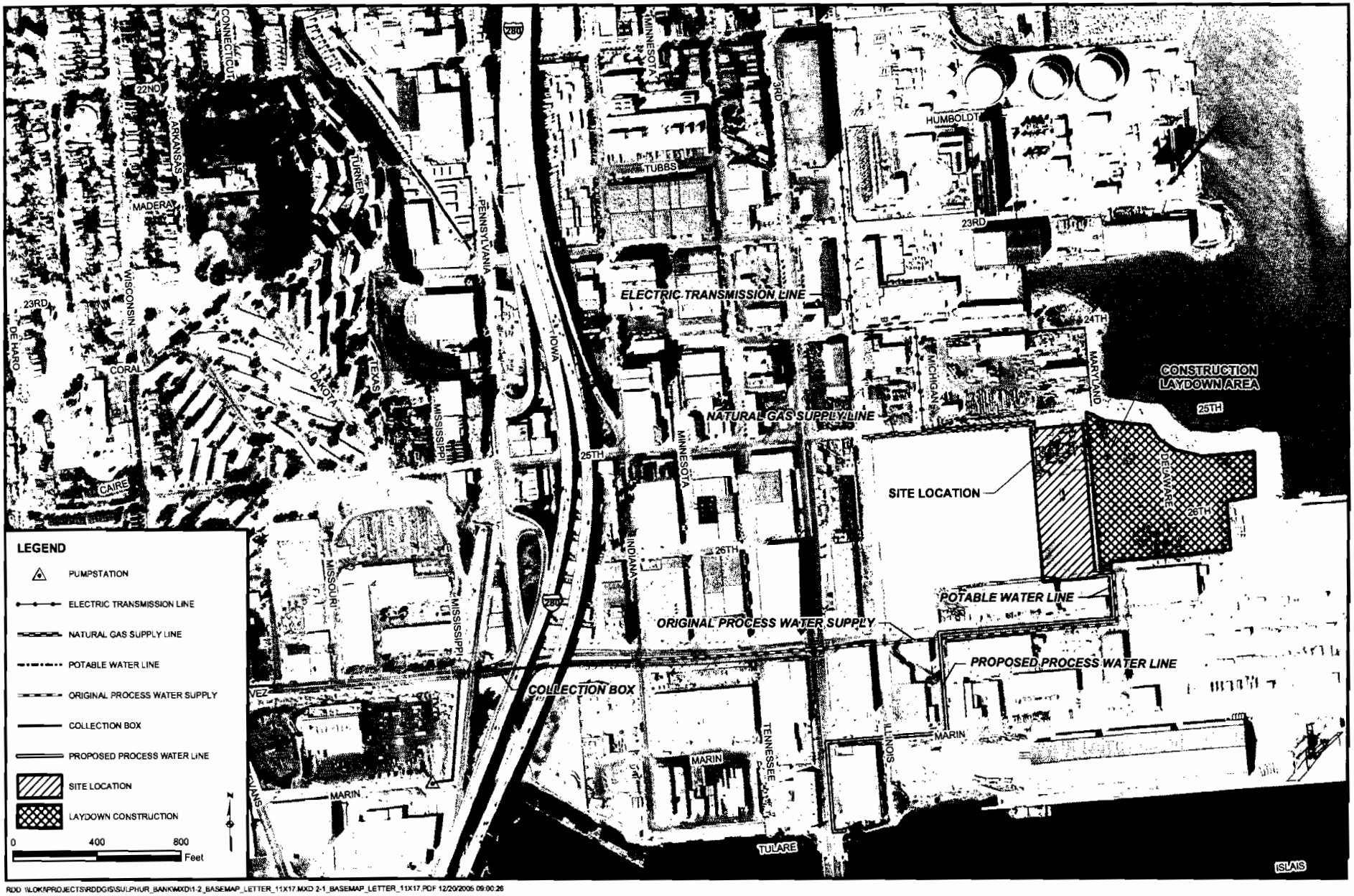

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BEFORE THE ENERGY RESOURCES CONSERVATION AND DEVELOPMENT COMMISSION OF THE STATE OF CALIFORNIA

APPLICATION FOR CERTIFICATION FOR THE SAN FRANCISCO ELECTRIC RELIABILITY PROJECT

Docket No. 04-AFC-01
PROOF OF SERVICE
Revised 8/03/05

DOCKET UNIT

Instructions: *Send an original signed document plus 12 copies* ***or*** *an electronic copy plus one original paper copy to the address below:*

CALIFORNIA ENERGY COMMISSION
Attn: Docket No. 04-AFC-01
DOCKET UNIT, MS-4
1516 Ninth Street
Sacramento, CA 95814-5512

Also send a printed ***or*** *electronic copy of all documents to each of the following:*

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DECLARATION OF SERVICE

I, Evelyn M Johnson declare that on December 27, 2005, I deposited copies of the attached Letter from SFPUC: Amendment to the Project Description, Process & Cooling Water Supply for San Francisco Electric Reliability Project, in the United States mail at Sacramento, California with first class postage thereon fully prepaid and addressed to those identified on the Proof of Service list above. Transmission via electronic mail was consistent with the requirements of California Code of Regulations, title 20, sections 1209, 1209.5, and 1210. I declare under penalty of perjury that the foregoing is true and correct.

Evelyn M Johnson

[signature]

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