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CH2MHILL

July 23, 2004
184288

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

RE: Informal Data Response, Set 1
San Francisco Electric Reliability Project (04-AFC-1)

Dear Bill:

On behalf of the City of San Francisco, please find attached 12 copies and one original of the Informal Data Response, Set 1, in response to Staff's Informal Data Requests dated July 8, 2004. We are filing copies of this Informal Data Response both electronically and in hard copy.

Please call me if you have any questions.

Sincerely,

CH2M HILL

John L. Carrier, J.D.
Program Manager

c: Project File
Proof of Service List

SAN FRANCISCO ELECTRIC RELIABILITY PROJECT (04-AFC-1)

INFORMAL DATA RESPONSE, SET 1

(Informal Responses to Data Requests: WS-1 through WS-4 and VR-85A through VR-85C)

Submitted by

CITY AND COUNTY OF SAN FRANCISCO

July 23, 2004

CH2MHILL

2485 Natomas Park Drive, Suite 600
Sacramento, California 95833-2937

SAN FRANCISCO ELECTRIC RELIABILITY PROJECT
(04-AFC-1)
INFORMAL DATA RESPONSES, SET 1A

Technical Area: Worker Safety and Fire Protection
Author: Alvin Greenberg, Ph. D.
Technical Senior: Rick Tyler

ISSUE

In order to asses fire prevention methods at the proposed facility, it is necessary to know how much on-site storage capacity of water will be available for fire fighting purposes and what type of emergency backup pump system would be used. It is also necessary to know what fire suppression measures would exist on-site during the construction phase of the project.

DATA REQUEST

WS-1. Please describe the fire suppression measures that would exist on-site during construction.

Response: During construction, fire suppression will be handled locally through the use of portable fire extinguishers located throughout the construction site. Safety procedures addressing fire protection will be part of the construction safety program to be implemented during construction. The City will provide fire protection backup for fires that cannot be contained by portable extinguishers. The City will notify the San Francisco Fire Department of any fire incidents on the SFERP regardless of size.

WS-2. Please provide the amount of on-site storage capacity of water that would be available for fire fighting at the SFERP during operations.

Response: The fire protection system will utilize the existing City fire water system for supply. The plant will have a fire main loop with hydrants and building sprinkler systems. This loop will have two connections to the existing City fire water supply in 23rd Street. (Refer to Section 8.14.5.1.3 of the AFC). There will be no onsite storage.

WS-3. Describe any pumps which might be necessary to provide increased water pressure required to serve firefighting systems.

Response: It is not anticipated that there will be a need to boost the water pressure of the City's fire protection system.

WS-4. Please provide a description of any emergency backup fire pumps proposed for this project.

Response: There are no backup firewater pumps proposed.

SAN FRANCISCO ELECTRIC RELIABILITY PROJECT
(04-AFC-1)
INFORMAL DATA RESPONSES, SET 1A

Technical Area: Visual Resources
Author: Mark R. Hamblin and William Walters

DATA REQUEST

VR-85A. The response assumes that all three turbines are in operation for each ambient condition shown in Table VR-85, correct? If not please describe the turbine operating conditions assumed for each ambient condition.

Response: That is correct; the response is based on the assumption that all three combustion turbines are operating at full load at each ambient condition shown.

VR-85B. The response seems to indicate that only one cell of the cooling tower will operate when the chillers are off (i.e. 50F and lower), but not under other low chiller load conditions (i.e. other conditions when the cooling tower is operating at well less than 50% of its design load), is this correct? We plan to modify the cooling tower heat balance to a single cell operating heat balance during the conditions when the cooling tower will actually only operate with a single cell, so we need to be sure under what conditions (maximum ambient temperature, maximum heat rejection, etc.) the tower will operate with only a single cell.

Response: The determination as to the number of cells in operation under any given load is subject to the discretion of the plant operator. Ambient temperature is only one consideration. The CEC Staff is free to make alternative operating assumptions regarding the number of cells in operation at any given time; however, the City is not proposing any restrictions on the judgment of plant operators on this issue.

VR-85C. Charting the heat rejection vs. ambient temperature for 52F, 59F and 80F indicates an almost linear relationship between heat rejection and ambient temperature for these three points, so for our model input development we plan to assume that the heat rejection for the cooling tower increases linearly with temperature for temperatures above 52F. Additionally, the non-chiller operations at 36F and 50F show identical heat rejection values, so we will assume that the heat rejection at ambient temperatures of 50F and lower is constant, and we will use linear interpolation to obtain the heat rejection value for 51F.

Response: The City understands the assumptions that the CEC Staff is making.

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-1
	)	PROOF OF SERVICE
	)	*Revised 7/9/04

I, Anar Bhimani, declare that on July 23, 2004, I deposited copies of the attached Informal Data Response, Set 1 in the United States mail at Sacramento, CA with first class postage thereon, fully prepaid, and addressed to the following:

DOCKET UNIT

Send the original signed document plus 12 copies to the following address:

CALIFORNIA ENERGY COMMISSION
Attn: Docket No. 01-AFC-17
DOCKET UNIT, MS-4
1516 Ninth Street
Sacramento, CA 95814-5512

In addition to the documents sent to the Commission Docket Unit, also send individual copies of all documents to:

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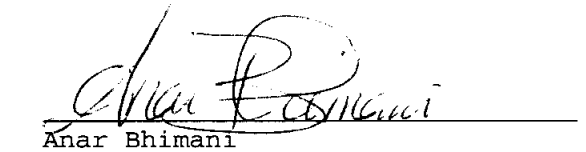
I declare under penalty of perjury that the foregoing is true and correct.



Anar Bhimani