

DOCKETED

Docket Number:	93-AFC-02C
Project Title:	Compliance - Application for Certification SMUD's Proctor & Gamble Cogeneration Project
TN #:	204649
Document Title:	Procter & Gamble - Supplement #2 to 10-30-2014 Petition to Amend
Description:	N/A
Filer:	Mary Dyas
Organization:	CH2M Hill
Submitter Role:	Applicant Consultant
Submission Date:	5/19/2015 8:30:15 AM
Docketed Date:	5/19/2015

CH2M HILL
2485 Natomas Park Drive,
Suite 600
Sacramento, CA 95833
Tel 916.286.0224
Fax 916.920.8463



May 18, 2015

Ms. Mary Dyas
California Energy Commission
Siting, Transmission and Engineering Division
1516 9th Street MS-46
Sacramento, CA 95814-5512

RE: Supplement #2 to the Sacramento Cogeneration Authority's Procter and Gamble
Cogeneration Project (93-AFC-2C) Auxiliary Boiler 1B Project Petition to Amend

Dear Ms. Dyas:

The Sacramento Cogeneration Authority (SCA) respectfully submits this Supplement #2 as additional information for its October 2014 petition to the California Energy Commission (CEC) for post-certification license modification for the Sacramento Cogeneration Authority's (SCA) Procter and Gamble Cogeneration Project (PGCP) (93-AFC-2C) located at 5000 83rd Street, Sacramento, California.

Once you have reviewed this Supplement, please e-file it.

Please call me if you have any questions.

Sincerely,

CH2M HILL

A handwritten signature in blue ink that reads "John L. Carrier".

John L. Carrier, J.D.
Program Manager

c: SMUD Project File

Supplement 2: Equipment Location

Addition of an Auxiliary Boiler and Associated Facilities

for the
**Sacramento Cogeneration Authority's
Procter and Gamble Cogeneration
Project**

**Sacramento, California
(93-AFC-2C)**

Submitted to
California Energy Commission

Submitted by
Sacramento Cogeneration Authority

May 2015

With Technical Assistance by



and
Sierra Research

Contents

Section	Page
1.0 Introduction	1-1
2.0 Equipment Location	2-1

Figures

S2-1	Auxiliary Boiler Relocation and Design, General Arrangement
------	-------------------------------------------------------------

Acronyms and Abbreviations

ERCs	emission reduction credits
FRAQMD	Feather River Air Quality Management District
PGCP	Procter and Gamble Cogeneration Project
PTA	Petition to Amend
SCA	Sacramento Cogeneration Authority
SMAQMD	Sacramento Metropolitan Air Quality Management District

SECTION 1.0

Introduction

Sacramento Cogeneration Authority's (SCA) October 2014 petition for post-certification license amendment (Petition to Amend, or PTA) proposes to install an additional auxiliary boiler (Boiler 1B) and associated facilities at the Procter and Gamble Cogeneration Project (PGCP) site. The environmental impacts assessment presented in the PTA concludes that there will be no significant adverse environmental impacts associated with the implementation of the actions specified in the PTA. The associated air quality impacts were determined to be less than the levels currently being experienced at the PGCP facility. Therefore, the PTA concludes that not only will no adverse air quality effects on the environment occur because of the proposed changes to the project, but some minor environmental benefits will occur.

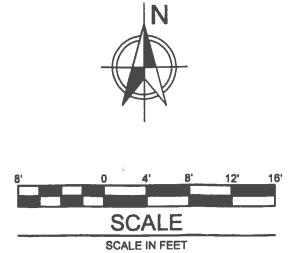
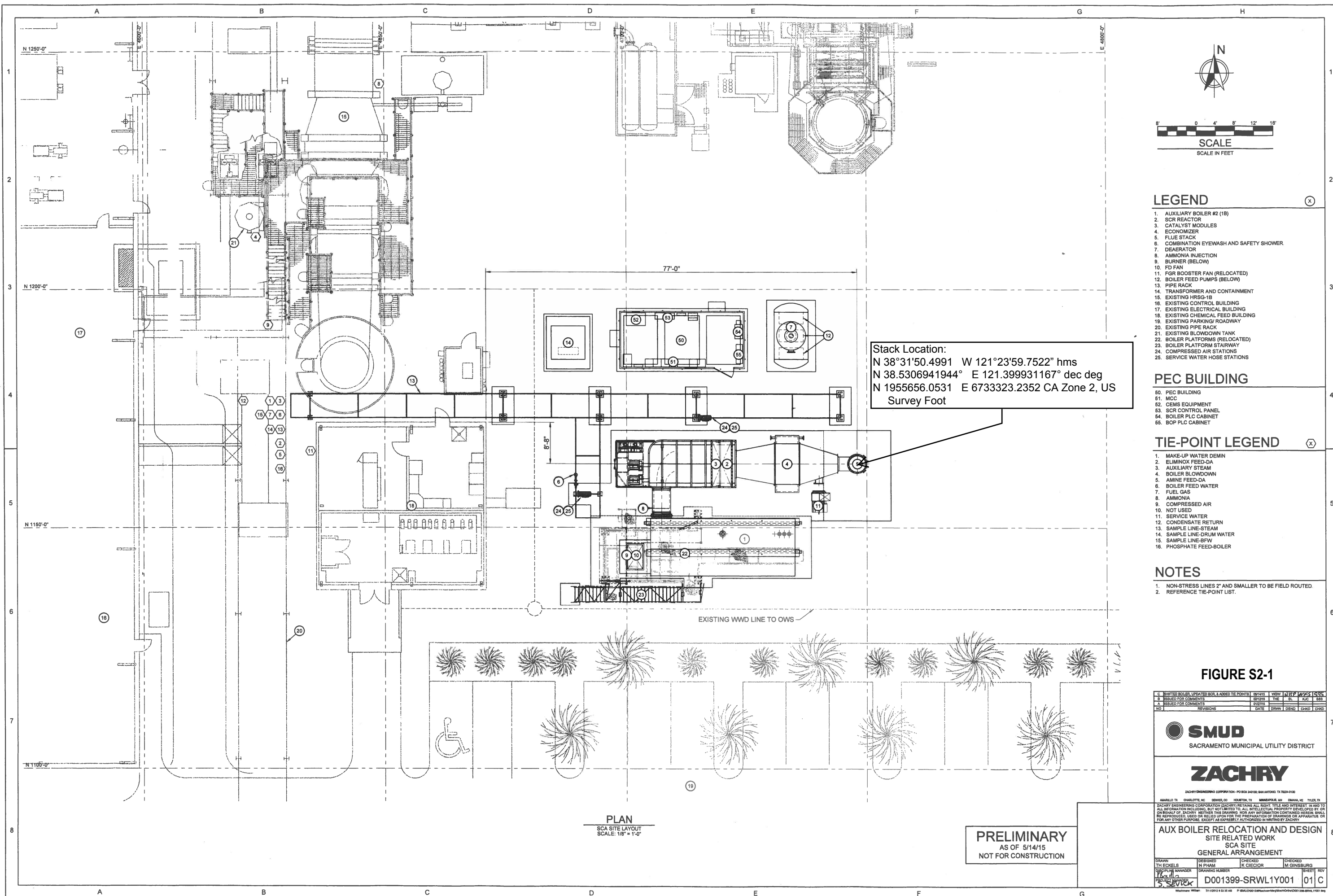
Nonetheless, the Sacramento Metropolitan Air Quality Management District (SMAQMD) determined that the project triggers emission offset requirements for pollutants nitrogen oxides, volatile organic compounds, fine particulate matter, and ultra-fine particulate matter under its rules and regulations. Accordingly, SCA proposes to use emission reduction credits (ERCs) owned by the Sacramento Municipal Utility District and located in the Feather River Air Quality Management District (FRAQMD). This will require that the ERCs be transferred from the FRAQMD to the SMAQMD for use at SCA's Sacramento facility. This documentation was provided in Supplement 1.

In addition, the project design has advanced since the PTA was first filed, and better location and design information for the new Boiler 1B is now available. It is provided in this Supplement 2.

SECTION 2.0

Equipment Location

Since the PTA was filed on October 30, 2014 design work on this project has continued to move forward. Figure S2-1 shows the latest general arrangement drawing of the new Boiler 1B at the plant site and provides the coordinates of the stack location. This information does not significantly change the stack location details previously submitted, nor does it affect the conclusions of the air quality analysis regarding insignificant project impacts.



LEGEND

- 1. AUXILIARY BOILER #2 (18)
- 2. SCR REACTOR
- 3. CATALYST MODULES
- 4. ECONOMIZER
- 5. FLUE STACK
- 6. COMBINATION EYEWASH AND SAFETY SHOWER
- 7. DEAERATOR
- 8. AMMONIA INJECTION
- 9. BURNER (BELOW)
- 10. FD FAN
- 11. FGR BOOSTER FAN (RELOCATED)
- 12. BOILER FEED PUMPS (BELOW)
- 13. PIPE RACK
- 14. TRANSFORMER AND CONTAINMENT
- 15. EXISTING HRSG-19
- 16. EXISTING CONTROL BUILDING
- 17. EXISTING ELECTRICAL BUILDING
- 18. EXISTING CHEMICAL FEED BUILDING
- 19. EXISTING PARKING/ ROADWAY
- 20. EXISTING PIPE RACK
- 21. EXISTING BLOWDOWN TANK
- 22. BOILER PLATFORMS (RELOCATED)
- 23. BOILER PLATFORM STAIRWAY
- 24. COMPRESSED AIR STATIONS
- 25. SERVICE WATER HOSE STATIONS

PEC BUILDING

- 50. PEC BUILDING
- 51. MCC
- 52. CEMS EQUIPMENT
- 53. SCR CONTROL PANEL
- 54. BOILER PLC CABINET
- 55. BOP PLC CABINET

TIE-POINT LEGEND

- 1. MAKE-UP WATER DEMIN
- 2. ELIMINOX FEED-DA
- 3. AUXILIARY STEAM
- 4. BOILER BLOWDOWN
- 5. AMINE FEED-DA
- 6. BOILER FEED WATER
- 7. FUEL GAS
- 8. AMMONIA
- 9. COMPRESSED AIR
- 10. NOT USED
- 11. SERVICE WATER
- 12. CONDENSATE RETURN
- 13. SAMPLE LINE-STEAM
- 14. SAMPLE LINE-DRUM WATER
- 15. SAMPLE LINE-BFW
- 16. PHOSPHATE FEED-BOILER

NOTES

- 1. NON-STRESS LINES 2" AND SMALLER TO BE FIELD ROUTED.
- 2. REFERENCE TIE-POINT LIST.

Stack Location:
 N 38°31'50.4991 W 121°23'59.7522" hms
 N 38.5306941944° E 121.399931167° dec deg
 N 1955656.0531 E 6733323.2352 CA Zone 2, US
 Survey Foot

PLAN
 SCA SITE LAYOUT
 SCALE: 1/8" = 1'-0"

PRELIMINARY
 AS OF 5/14/15
 NOT FOR CONSTRUCTION

FIGURE S2-1

C	SHIPPED BOILER, UPDATED BOP, LOADED TIE POINTS	09/14/15	1	1/17/15	1/25/15	1/25/15
B	ISSUED FOR COMMENTS	07/13/15	1	07/13/15	07/13/15	07/13/15
A	ISSUED FOR COMMENTS	05/14/15	1	05/14/15	05/14/15	05/14/15
NO	REVISIONS	DATE	DRWN	DESD	CHKD	CHKD

SMUD
 SACRAMENTO MUNICIPAL UTILITY DISTRICT

ZACHRY
 ZACHRY ENGINEERING CORPORATION - PO BOX 34130, SAN ANTONIO, TX 78234-0130
 AMARILLO, TX; CHARLOTTE, NC; DENVER, CO; HOUSTON, TX; MINNEAPOLIS, MN; OKLAHOMA CITY, OK; TULSA, OK

ZACHRY ENGINEERING CORPORATION (ZACHRY) RETAINS ALL RIGHT, TITLE AND INTEREST IN AND TO ALL INFORMATION INCLUDING, BUT NOT LIMITED TO, ALL INTELLECTUAL PROPERTY DEVELOPED BY OR ON BEHALF OF ZACHRY, WHETHER THIS DRAWING, OR ANY INFORMATION CONTAINED HEREIN, SHALL BE REPRODUCED, USED OR RELIED UPON FOR THE PREPARATION OF DRAWINGS OR APPARATUS OR FOR ANY OTHER PURPOSE, EXCEPT AS EXPRESSLY AUTHORIZED IN WRITING BY ZACHRY.

AUX BOILER RELOCATION AND DESIGN
 SITE RELATED WORK
 SCA SITE
 GENERAL ARRANGEMENT

DRAWN TH ECKELS	DESIGNED N PHAM	CHECKED K CIECIOR	CHECKED M GINSBURG
PROJECT MANAGER J. SEVICK	DRAWING NUMBER D001399-SRWL1Y001	SHEET REV 01 C	