DOCKETED

Docket Number:	06-AFC-09C
Project Title:	Colusa Generating Station - Compliance
TN #:	201184
Document Title:	PG&E's Petition to Amend the Commission Decision
Description:	N/A
Filer:	Charles Robert Price
Organization:	Pacific Gas & Electric Co.
Submitter Role:	Applicant
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Docketed Date:	11/13/2013

Pacific Gas and Electric Company®

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CGS13-L-0022
November 13, 2013

Eric Veerkamp
California Energy Commission
1516 Ninth Street, MS-2000
Sacramento, CA 95814

Subject: **Petition To Amend The Commission Decision For The Colusa Generating Station.**

Docket NO. 06-AFC-09

Dear Eric:

Pursuant to Section 1769 of the California Energy Commission (CEC) Siting Regulations, Colusa Generating Station (CGS) hereby submits the attached Petition for a Staff Approved Project Change to Amend Docket No. 06-AFC-09. The requested changes do not affect the project description or any Conditions of Certification in the Commission Decision or subsequent amendments.

The CGS plans to remove its Lamella Clarifier which is used to remove TSS from ultra-filtration cleanings due to a low removal efficiency of around 50-60%. The Lamella Clarifier will be replaced with a DAF Clarifier unit which through trials at the facility has shown to decrease TSS by up to 86% and turbidity by 99%. The buildup of TSS in the system will result in excessive cleanings and inefficiencies of the ultra-filtration units. The physical footprint of the DAF is smaller than the Lamella unit and will fit within the original footprint of the existing clarifier. From a chemical stand point the new clarifier uses only one flocculent versus two for the Lamella.

The proposed changes will not impact the environment, will not conflict with any applicable laws, ordinances, regulations or standards, and the improvements do not result in a significant change in operation. This petition is being submitted per the request of CEC staff.

If you have any questions regarding this submittal, please feel free to call Charles Price at (530) 934-9007.

Sincerely,

11/13

Ed Warner
Senior Plant Manger

cc: File No. 3.6.3.16

Charles Price, PGE
Jason Vann, PGE

COLUSA GENERATING STATION APPLICATION FOR STAFF APPROVED PROJECT CHANGE

As required by Section 1769 of the CEC Siting Regulations, Colusa Generating Station (CGS) hereby submits the following information in support of a staff approved project change.

Pursuant to Section 1769(a)(1)(A) and (B), this section provides a complete description of the proposed modifications, including new language for affected conditions, and the necessity for modifications.

The CGS plans to replace equipment in its ultra-filtration system to increase efficiency in the process.

The current water treatment configuration uses a Lamella clarifier to remove TSS from ultra-filtration cleanings. The importance of removing TSS from the water is the nature of a zero liquid discharge plant. Any TSS will continue to build up in the system as the water is recycled repetitively. The nature of this TSS buildup is that a significant portion of what remains is in the sub-micron level. Eventually, this buildup will result in excessive cleanings and significant inefficiencies of the ultra-filtration units. A trial was conducted using a DAF unit. The removal was 86% for the TSS and 99% for the turbidity. This compares to a typical removal of 50%- 60% for the Lamella unit. The physical footprint of the DAF is actually smaller than the Lamella and, as such, will fit within the footprint of the existing clarifier. The operation of the unit is actually easier since the DAF automatically rakes off the floating cake as opposed to a manual pumping of the sludge from the Lamella. Finally, the chemistry only uses one flocculent versus two products for the current Lamella.

No Conditions of Certification specify what equipment is used in the water treatment system. Therefore the proposed changes to the Water Treatment System do not affect any conditions of certification.

Pursuant to Section 1769(a)(1)(C), a discussion is required if the modification is based on information that was known by the petitioner during the certification proceeding, and an explanation of why the issue was not raised at that time.

The need for the improvement was discovered through trial and error during the operation of the facility.

Pursuant to Section 1769(a)(1)(D), a discussion is required on whether the modification is based on new information that changes or undermines the assumptions, rationale, findings, or other bases of the final decision, and explanation of why the change should be permitted.

The use of the DAF Clarifier does not change or undermine the assumptions, rationale, findings, or other bases of the final decision.

The change should be permitted as there are no significant impacts as a result of the clarifier change. The change will increase the efficiency of the water treatment system and no Conditions of Certification will be affected.

Pursuant to Section 17699(a)(1)(E), an analysis of the impacts the modifications may have on the environment and proposed measures to mitigate any significant adverse impacts is required.

The facility will continue to meet all existing environmental regulations. All chemicals used in the new process will be controlled using current practices. The units will be substituting one flocculant for another, any new chemicals on cite will be identified on our Table C per HAZ-1.

Pursuant to Section 17699(a)(1)(F), a discussion of the impact of the modification on the facility's ability to comply with applicable laws, ordinances, regulations, and standards is required.

The facility improvement will not have an impact on the facility's ability to comply with applicable laws, ordinances, regulations and standards.

Pursuant to Section 1769(a)(1)(G), a discussion of how the modifications affect the public is required.

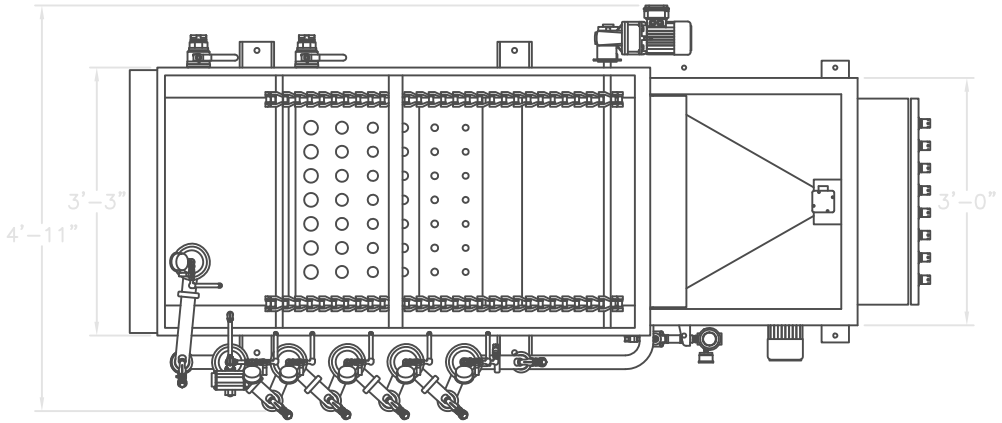
he proposed upgrade will have no significant environmental effects and will be in compliance with applicable LORS, therefore there will be no effects to the public.

Pursuant to Section 1769(a)(1)(H), a list of property owners potentially affected by the modification is required.

The proposed upgrade will have no significant environmental effects and will be in compliance with applicable LORS, therefore there will be no effects to the property owners.

Pursuant to Section 1769(a)(1)(I), a discussion of the potential effect on nearby property owners, the public and the parties in the application proceedings is required.

The proposed upgrade will have no significant environmental effects and will be in compliance with applicable LORS, therefore there will be no effects to the property owners, the public or other properties.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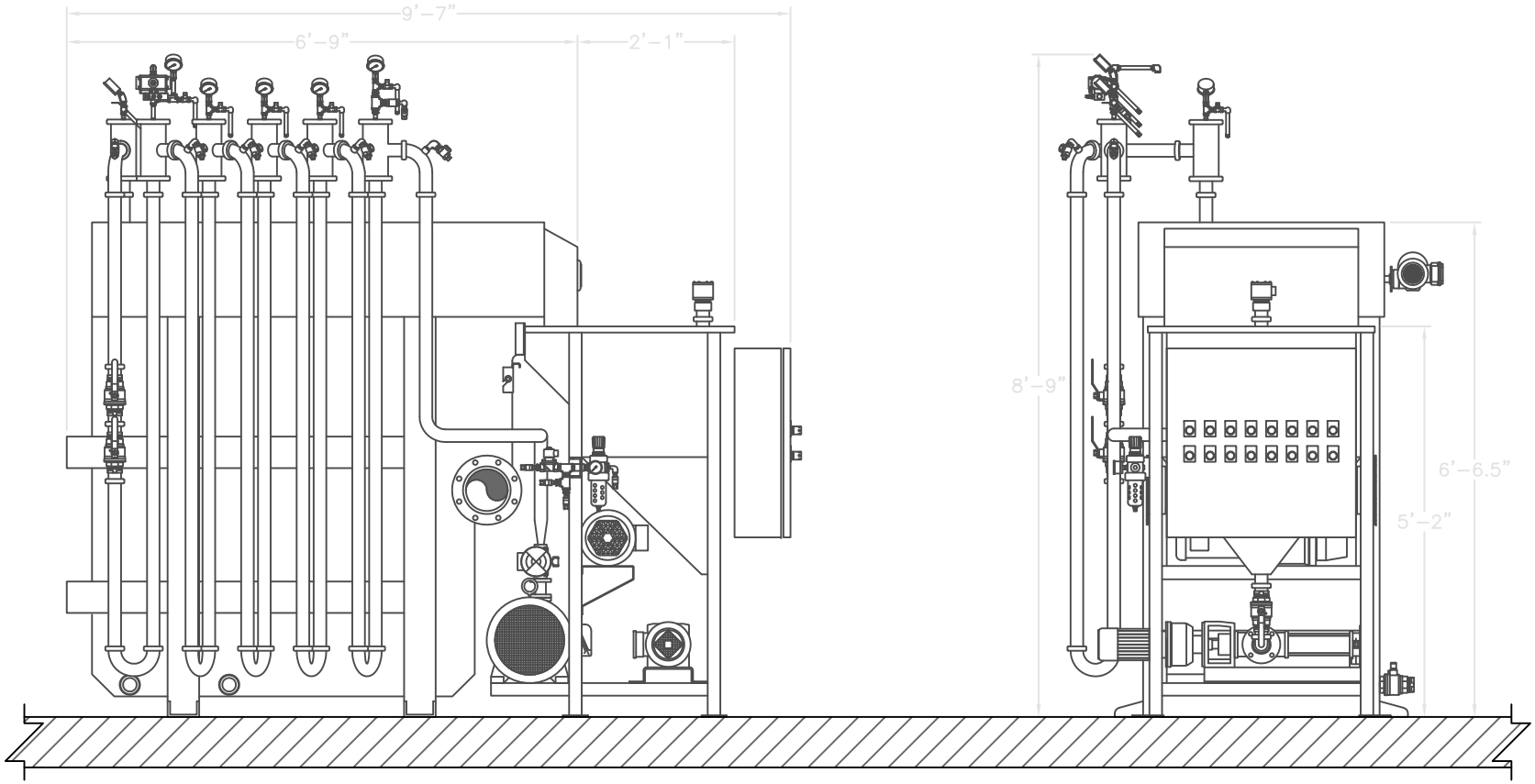
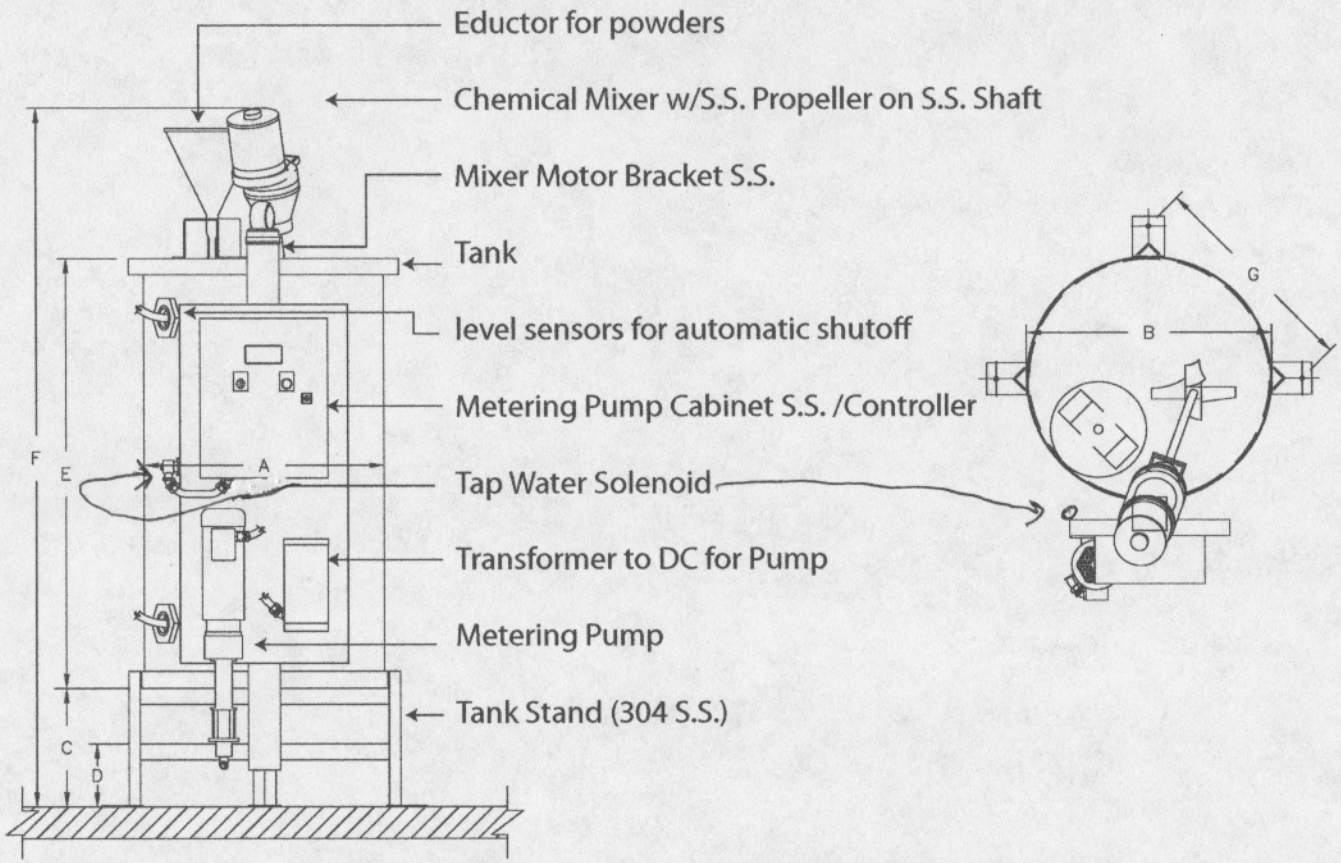
4’–11”
3’–0”


9’–7”
6’–9”
2’–1”
8’–9”
6’–6.5”
5’–2”



	A	B	C	D	E	F	G
TANK CAPACITY (GALLONS)	NOMINAL TANK DIAMETER	STAND PLATE DIAMETER	PLATE HEIGHT	SHELF HEIGHT	TANK HEIGHT	TOTAL HEIGHT	MOUNTING HOLE DISTANCE
55	22	22½	15	8	37	78	22 ± ⅛
150	30	30½	15	8	57	91	27 ± ⅛
275	42	42½	15	8	53	91	35¾ ± ⅛
500	48	48½	15	8	71½	107	39¾ ± ⅛

ALL UNITS IN US INCHES UNLESS SPECIFIED

CWT
Clean Water Technology™, Inc.
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Phone: (310) 380-4648 Fax: (310) 380-4658

Project/Part: Tank Stand Index
Drawing/Part Number:
Date: 3/09
Revision: 2
Drawn By: ZL
Sheet: reference