os	bpd	State of California – Health and Human Services Agency					
	ice of Statewide Health Pla	nning and Development					
Facil 400 R	ities Development Division Street. Suite 200, Sacramento, California 958	www.oshpd.ca.gov/fdd 11-6213 Phone (916) 440-8300 Fax (916) 654-2973					
		ON FOR PREAPPROVAL FICATION OF EQUIPMENT AND COMPONENTS					
	For Office Use Only						
APPLICATION NO.		Check whether application is: NEW X RENEWAL					
	OSP – 0236 -10						
1.0	Fuel Oil Systems	Hunter Chappell Manufacturer's Technical Representative					
		rporate Pl., Hayward, CA 94545					
	Mailing Address						
	(510) 727-6701	hchappell@fueloilsystems.net					
	Telephone	E-mail Address					
2.0	FOS-SALD24A Product Name	Fuel Management System Product Type					
	Panels are custom built.						
	Product Model No. (List all unique product identification numbers and/or serial numbers)						
	General Description: Rigid wall mounted leak detection panel installed in a NEMA 4 rated enclosure.						
3.0							
	Fuel Oil Systems Applicant Company Name	Doug Nakano Contact Person					
	3167 Corporate PI., Hayward, CA 94545 Mailing Address						
	(510) 727-6701	dnakano@fueloilsystems.net					
	Telephone	E-mail Address					
	eby agree to reimburse the Office of s incurred by the department for rev	of Statewide Health Planning and Development for the actual view.					
	Daylog Jelow						
	Signature of Applicant	11/28/2011 Date					
	Owner Title	Fuel Oil Systems Company Name					

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Office of Statewide Health Planning and Development Registered Design Professional Preparing the Report 4.0 Forell/Elsesser Engineers Company Name Marco Scanu, SE S4454 Contact Name California License Number 160 Pine St., 6th Flr., San Francisco, CA 94111 Mailing Address 415-837-0700 c.sempere@forell.com Telephone E-mail Address California Licensed Structural Engineer Review and Acceptance of the Report 5.0 Forell-Elsesser Engineers, Inc. Company Name S4454 Marco Scanu, SE Contact Name California License Number 160 Pine St., 6th Flr., San Francisco, CA 94111 Mailing Address 415-837-0700 m.scanu@forell.com Telephone E-mail Address Anchorage Pre-Approval 6.0 Anchorage is pre-approved under OPA-(Separate application for anchorage pre-approval is required) \boxtimes Anchorage is not Pre-approved Certification Method 7.0 \boxtimes X ICC-ES AC-156 Other (Please Specify): Testing in accordance with: Analysis Experience data Combination of Testing, Analysis, and/or Experience Data (Please Specify): П Testing Laboratory (if applicable) 8.0 National Technical Systems Deepa Shetty Contact Name Company Name 38995 Cherry Street, Newark, CA 94560 Mailing Address (510) 578-3500 x2105 deepa.shetty@nts.com E-mail Telephone

"Equitable Healthcare Accessibility for California" Office of Statewide Health Planning and Development Approval Parameters 9.0 Design in accordance with ASCE 7-05 Chapter 13: Yes \mathbb{X} No Design Basis of Equipment or Components $(F_p/W_p) = 2.15$ S_{DS} (Spectral response acceleration at short period) = 2.86g a_p (In-structure equipment or component amplification factor) = 2.5 R_p (Equipment or component response modification factor) = 6.0 I_p (Importance factor) = 1.5 z/h (Height factor ratio) = 1.0 Equipment or Component fundamental period(s) = n/a Building period limits (if any) = n/a Overall dimensions and weight (or range thereof) = 24"H x 24"W x 16"D x 105 lbs Equipment or Components @ grade designed in accordance with ASCE 7-05 Chapter 15: Yes 🔀 No Design Basis of Equipment or Components (V/W) = S_{DS} (Spectral response acceleration at short period) = S_1 (Spectral response acceleration at 1 second period) = R (Response modification coefficient)=1.0 Ω_0 (System overstrength factor) =1.0 C_d (Deflection amplification factor) =1.0 I_p (Importance factor) =1.5 Height to Center of Gravity above base = Equipment or Component fundamental period(s) = Sec Overall dimensions and weight (or range thereof) = Tank(s) designed in accordance with ASME BPVC, 2007: Yes No 10.0 List of attachments supporting the special seismic certification of equipment or components: Test Report Drawings П Manufacturer's Catalog \boxtimes Calculations \boxtimes Other (Please Specify): SE Acceptance Letter, Product Range Summary, CBC 2010 & AC156 Requirements Checklist 11.0 OSHPD Approval (For Office Use Only) 90 G 11/28/11 December 31, 2016 m Signature & Date Approval Expiration Date M. R. Karim, SHFR 2.86 z/h = 1.0 $S_{DS}(g) =$ Special Seismic Certification Valid Up to Name & Title Condition of Approval (if any):

OSP APPLICATION Fuel Oil Systems - FOS-SALD24A Product Range Summary

Fuel Oil Syste	ems - FOS-SAL	D24A Fu	el Mana	gement S	ystem				
Product Range Summary									
	Height	Width	Depth	Max. Weight	Modules	Notes			
Unit				14					
FOS-SALD24A	24.0 in	24.0 in	16.0 in	105 lbs	11 (max.)	1,2			
FOS-SALD24Z	24.0 in	24.0 in	16.0 in	105 lbs	0 (min.)	1,2			
Notes	L			1					
1. Enclosure is NEMA 4 rated.				39					
2. Enclosure is 14ga cold-formed ca									
		and the second secon							
Enclosure				9	Part #	Test Status			
Hoffman NEMA 4 Enclosure		CCD24244CW	Tested						
tested with polycarbonate window kit					CSD242416W	Tested			
Internal Components									
Fuel Management System Console	Part #	Test Status							
Franklin Fueling TS-5000 Console					T5000DP	Tested			
Fuel Management System Modules	Part #	Test Status							
Franklin Fueling TS-5000 Probe Mod	TS-PRB	Tested							
Franklin Fueling TS-5000 2-Wire Sen		TS-2WSNS	Tested						
Franklin Fueling TS-5000 3-Wire Sen		TS-3WSNS	Tested						
Franklin Fueling TS-5000 4-20mA Inp		TS-4201B	Tested						
Franklin Fueling TS-5000 (10) 120V	TS-ACI	Tested							
Franklin Fueling TS-5000 Relay Outp		TS-RLY	Tested						

FORELL/ELSESSER ENGINEERS, INC. 160 Pine Street, 6th Floor San Francisco, CA 94111

OSP APPLICATION Fuel Oil Systems – FOS-SALD24

Date: 11/10/2011

Tested Unit #2 (NTS-ENV-2)

<u>NTS-ENV- 2</u> FOS-SALD24A 24"H x 24"W x16"D 105 lbs

Maximum configuration 11 internal system modules

Enclosure Hoffman CONCEPT CSD242416W 24"H x 24"W x 16"D NEMA 4 Polycarbonate window kit

Internal Components Franklin Fueling TS-5000 fuel management system console (model #TS5000DP) TS-PRB probe module (x1) TS-2WSNS 2-wire sensor module (x2) TS-3WSNS 3-wire sensor module (x1) TS-420IB 4-20mA input module (x1) TS-ACI (10) 120V input module (x3) TS-RLY relay output module (x3)





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OSP APPLICATION Fuel Oil Systems – FOS-SALD24

Date: 11/10/2011

TEST SUMMARY

Tested Unit #1 (NTS-ENV-1)

<u>NTS-ENV- 1</u> FOS-SALD24Z 24"H x 24"W x16"D 105 lbs

Minimum configuration 0 internal system modules

Enclosure: Hoffman CONCEPT CSD242416W 24"H x 24"W x 16"D NEMA 4 Polycarbonate window kit

Internal Components: <u>Franklin Fueling</u> TS-5000 fuel management system console (model #TS5000DP)





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