

APPLICATION FOR OSHPD SPECIAL SEISMIC	OFFICE	USE ONLY
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #:	OSP – 0191
OSHPD Special Seismic Certification Preapproval (OSP)		
Type: 🗌 New 🛛 Renewal		
Manufacturer Information		
Manufacturer: In Compliance Services Inc.		
Manufacturer's Technical Representative: Lucas Jones		
Mailing Address: _ P.O. Box 1355, Bethel Island, CA 94511		
Telephone: 925.852.9827	incomplianceservices.co	om
Product Information	MD,	
Product Name: Fuel Oil Control Panels OSHPD	FL	
Product Type: Control Panels OSP-0191	- Cr	
Product Model Number: <u>See Attachment 1</u> (List all unique product identification numbers and/or part numbers) Stach	lin	
General Description: <u>Fuel oil control panels for the management of</u> made to the test units shall be incorporated into the production units.	fuel oil delivery systems.	Seismic ennancements
Mounting Description: Rigid wall mounted.	/a/	
	20	
Applicant Information Applicant Company Name: Manwill Engineering LLC	ODE	
Applicant Company Name: Manwill Engineering LLC		
Contact Person: _ Derek Manwill, SE		
Mailing Address: PO Box 1194, Bend, OR 97709		
Telephone: _541.241.2102 Email: _derek@)) manwillSE.com	
I hereby agree to reimburse the Office of Statewide Health Faccordance with the California Administrative Code, 2016.	Planning and Develo	pment review fees in
Signature of Applicant:	Date:	10/15/2020
Title: President Company Name: Manwi	II Engineering LLC	
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"	he All Ann	OSHPD
STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-759 (REV 12/16/15)	And h hall the	Page 1 of 3



California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
Company Name: Manwill Engineering LLC
Name: Derek Manwill, SE California License Number: S6266
Mailing Address: _ PO Box 1194, Bend, OR 97709
Telephone: <u>541.241.2102</u> Email: <u>derek@manwillSE.com</u>
Supports and Attachments Preapproval
□ Supports and attachments are preapproved under OPM- (Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required) ○ Supports and attachments are not preapproved Certification Method ICC-ES AC156 ○ Other (Please Specify): Other (Please Specify): OSP-0191 By: William Staehlin
Testing Laboratory DATE: 05/26/2021
Company Name: National Technical Systems, Inc. – Silicon Valley
Contact Name: Rajnesh Nand
Mailing Address:
Telephone: 510.578.3500 Email: rajnesh.nand@nts.com

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"



Page 2 of 3

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Seismic Parameters
Design in accordance with ASCE 7-10 Chapter 13: 🖂 Yes 🔲 No
Design Basis of Equipment or Components (Fp/Wp) = <u>1.88</u>
S_{DS} (Design spectral response acceleration at short period, g) = 2.50
a _p (In-structure equipment or component amplification factor) = <u>2.5</u>
R_{P} (Equipment or component response modification factor) = <u>6.0</u>
Ω_0 (System overstrength factor) = 2.0
I _p (Importance factor) = 1.5
z/h (Height factor ratio) = _1
Equipment or Component Natural Frequencies (Hz) = <u>N/A (wall mounted)</u>
Overall dimensions and weight (or range thereof) = See Attachments 1 & 2
Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: Ves Ves Ves
Design Basis of Equipment or Components (V/W) =
S _{DS} (Design spectral response acceleration at short period, g) =
S _{D1} (Design spectral response acceleration at 1 second period, g) =
R (Response modification coefficient) =
Ω₀ (System overstrength factor) =
C₄ (Deflection amplification factor) =
Ip (Importance factor) = 1.5
Height to Center of Gravity above base =
Equipment or Component Natural Frequencies (Hz) =
Overall dimensions and weight (or range thereof) =
Tank(s) designed in accordance with ASME BPVC, 2015: 🗌 Yes 🖾 No
List of Attachments Supporting Special Seismic Certification
Test Report(s) Drawings Calculations Manufacturer's Catalog
✓ Other(s) (Please Specify): Attachments 1 & 2
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2025
Comp Approval (For Onice Ose Only) – Approval Expires on December 31, 2023
Signature: Date: Date: May 26, 2021
Print Name: William Staehlin Title: Senior Structural Engineer
Special Seismic Certification Valid Up to : S _{DS} (g) =250 z/h =
Condition of Approval (if applicable):
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"
STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-759 (REV 12/16/15) Page 3 of 3

IN COMPLIANCE SERVICES INC.

ATTACHMENT 1: CERTIFIED COMPONENTS

SPECIAL SEISMIC CERTIFICATION

TABLE 1

MODEL NU	IMBER		IMENSIONS		MAX. WT.	DESCRIPTION / NOTES	BASIS
		DEPTH	WIDTH	HEIGHT	(lb)		DAGIO
Custom Inter	ior Fuel Oil Control	Panels w/	Hoffman En	closure			
C-1H		8	16	20	52	UUT 1=43lb, UUT 7=52lb	UUT 1,7
C-2H		8	20	24	89		INTERF
C-3H		8	24	24	107		INTERP
C-4H		8	20	30	111		INTERP
C-5H		8	24	30	133		INTERP
C-6H		8	30	36	200		UUT 9 ¹
	ior Fuel Oil Control	Panels w/		closure	5 COL		
C-1S		8	16	20	50		INTERP
C-2S		8	20	24	75	· · · · · · · · · · · · · · · · · · ·	UUT 3
C-3S		8	24	24			INTERP
C-4S		8	20	30	79	2	INTERP
C-5S		8 24 30 95				C	INTERP
C-6S		K 8	30 U	5P36	143	11	UUT 5
Custom Exte	rior Fuel Oil Control	Panels w/	Saginaw E	nclosure	MAGYAWAWAWAWAWAWAWAWAWAWAWAWAWAWAWAWAWAWA		1
C-1X		12	24	30	112		UUT 2
C-2X		12	BY: 36VII	11an 30 S	lae ₁₆₄ n		UUT 4
C-3X		12	24	36	185		INTERP
C-4X		12	30	5/236/2	231		INTERP
C-5X		12	DA 36: U	$0/Z_{42}/Z$	VZ 324	UU <mark>T 6=2</mark> 67lb, UUT 8=324lb	UUT 6,8
MOUNTING:	Rigid wall mounted.	S.		4	SEISMIC LEVEL:	$S_{DS} = 2.50g$ for z/h = 1	I _P = 1.5
NOTES:	to the back plate. Options/Subcompor subcomponents. The	ents: Sagin weight of the Table 2. Inte sure tested	naw or Hoffman e complete con erpolated weig (within each e	n NEMA 4X o ntrol panel m hts are scale nclosure ma	enclosures as lis ust be less thar ad based on rela hufacturer).	I panels contain one interior control p sted in Table 2. See Table 3 for a list n or equal to the maximum weight list tive height and width compared to th	t of certified ted for the

IN COMPLIANCE SERVICES INC.

ATTACHMENT 1: CERTIFIED SUBCOMPONENTS

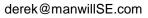
SPECIAL SEISMIC CERTIFICATION

TABLE 2 - ENCLOSURES

DOCUMENT NO.: 19121CR1.1

PRODUCT F	AMILY: FUEL OI	L CONTRO	L PANELS				
MODEL NU	MBER		MENSIONS	<u></u>	MAX. WT.	DESCRIPTION / NOTES	BASIS
		DEPTH	WIDTH	HEIGHT	(lb)		BAGIO
Hoffman - NE	MA 4X Interior Encl	osures					
CSD20168SS		8	16	20	25		UUT 1,2,
CSD24208SS		8	20	24	34		INTERF
CSD30208SS		8	20	30	42		INTERP
CSD24248SS		8	24	24	47		INTERP
CSD30248SS		8	24	30	49		INTERP
CSD36308SS		8	30	36	67		UUT 8
Saginaw - NE	MA 4X Interior Encl	osures	EOF	K CODE	E Co.		
SCE-20EL160	8SSLP	8	16	20	30		EXTRAF
SCE-24EL200	8SSLP	8	20	24	43		UUT 3,4
SCE-24EL240	8SSLP	8	24	24	49	4	INTERP
SCE-30EL200	8SSLP	8	20	30	52	12	INTERP
SCE-30EL240	8SSLP	48	24	30	53	N.C.	INTERP
SCE-36EL300	8SSLP	K 8	30 U	SP ₃₆ JT	75		UUT 5,6
Saginaw - NE	MA 4X Exterior Enc	losures wit	th Handle				
SCE-30EL241	2SSLPPL	12	24	30	69		UUT 2
SCE-30EL301	2SSLPPL	12	BY: 30VIII	a_{30}	aer ₈₉ m		UUT 4
SCE-36EL241	2SSLPPL	12	24	36	90		INTERP
SCE-36EL301	2SSLPPL	12	30	5/036/0	194		INTERP
SCE-42EL361	2SSLPPL	12	DA 36 : U	$P/Z_{42}/Z_{1}$	124		UUT 6,8
MOUNTING:	Rigid wall mounted.	S		A.	SEISMIC LEVEL:	$S_{DS} = 2.50g$ for z/h = 1	I _P = 1.5

A BUILDING



IN COMPLIANCE SERVICES INC.

ATTACHMENT 1: CERTIFIED SUBCOMPONENTS

SPECIAL SEISMIC CERTIFICATION

TABLE 3 - SUBCOMPONENTS

MANUFACTURER: IN CON	IPLIANCE S	ERVICES IN	IC.			
PRODUCT FAMILY: FUEL C		L PANELS				
MODEL NUMBER	DI	MENSIONS	(in)	MAX. WT.	DESCRIPTION / NOTES	BASIS
	DEPTH	WIDTH	HEIGHT	(lb)	DESCRIPTION / NOTES	BASIS
Automation Direct - Relay	1	1		1		T
750-3C-120A						UUT 1,5,6
Finder - Relay			-			
60.13.8.012.00540						UUT 2-6
Allen Bradley - Relay						
700HC1A1-3-4						UUT 7
Phoenix Contact - Relay			000			
60.13.8.012.00540		EO	KUUL	Co		UUT 8
Macromatic - Relay		20		MAN NA		
ARP120AGR	1.					UUT 1,2
Square D - Relays			CHE		Z	
8501-KA91-V20			DIII		2	UUT 3,4
9050-JCK11-V20	4				C	UUT 5,6
Siemens - Circuit Breakers	181	0	SP-01	91		i
5SJ4111-7HG41						UUT 1-6
5SJ44218-7HG41		10/11				UUT 5,6
Allen Bradley - Circuit Breakers		BY: VVII	liam St	aehlin		
1492-SP2C150						UUT 8
1492-SP1C050		0		0.4		UUT 7,8
Square D - Motor Starter		DATE: U	5/26/20	JZI		
GV2-P14H7/6-10A	N OV					UUT 5,6
Allen Bradley - Motor Starter	VA	-		1 1	12	,-
140M-D8E			IZA N		V	UUT 8
Allen Bradley - Contactor						
100-C23D10		TRAI.		COV		UUT 8
Floyd Bell - Audible Alarm		- A		NG		
UO-09-628-Q			JUILDI			UUT 7,8
Square D - Pilot Lights						
9001-KT38LGG31						UUT 1-6,8
9001-KT38LYA31						UUT 1-6
9001-KT38LRR31						UUT 1-6,8
Allen Bradley - Pilot Lights						00110,0
800T-QTH2G						UUT 7
800T-QTH2Y						INTERP
800T-QTH2R						UUT 7
Square D - Switch	-	1	1			0017
9001-KS63FBH2						UUT 1-6,8
Allen Bradley - Switches						001 1-0,0
800T-J17						UUT 7
800T-H17D1						UUT 7
Square D - Push Button						0017
9001-KR1B				1		UUT 1-6.8
	he next rear	Additional are	too informati		c parameters are shown at the end	

IN COMPLIANCE SERVICES INC.

ATTACHMENT 1: CERTIFIED SUBCOMPONENTS

SPECIAL SEISMIC CERTIFICATION

TABLE 3 - SUBCOMPONENTS (continued)

MANUFACTURER: IN COM	IPLIANCE SI	ERVICES IN	IC.			
PRODUCT FAMILY: FUEL O	OIL CONTRO					
MODEL NUMBER	DII DEPTH	MENSIONS WIDTH	(in) HEIGHT	MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS
Allen Bradley - Push Button		WID III	II LIOIII			
800T-A2						UUT 7
Weidmueller - Terminal Block						
WDU-4						UUT 1-6
Phoenix Contact - Terminal Blog	cks					
UT4						UUT 8
UT4-HESI			000			UUT 8
UTB 2.5		EOF	<u>t CUDE</u>			UUT 8
Allen Bradley - Terminal Block		010		M		
1492-J4		K				UUT 7
Seimens - Controllers			CHE			1
6ES7 212-1BD30-0XB0			DHE		CPU	UUT 3-6
KTP-600	41	_			6in touchscreen	UUT 4
KTP-1000	Re l	0	5P-01	91	10in touchscreen	UUT 3,5,6
6EP1-332-1SH71	/ ////				Power supply	UUT 3-6
6GK7 277-1AA00-0AA0		10/11			Ethernet switch	UUT 3-6
6ES7 241-1AH30-0XB0		BY: VVII	iam St	aeniin	Seri <mark>al data</mark>	UUT 3-6
6ES7 221-IBH30-0XB0					Input module	UUT 3-6
6ES7 222-1BH30-0XB0			E /OC/O	0.04	Out <mark>put mo</mark> dule	UUT 3-6
Allen Bradley - Controllers		DATE: U	2/20/20	UZI		4
1763-L16BWA					CPU	UUT 7,8
2711PC-T6C20D	T.				6in touchscreen	UUT 7
2711PC-T10C4D1					10in touchscreen	UUT 8
1606-XLE80E					Power supply	UUT 7,8
1783-US05T		TYN,		COV	Ethernet switch	UUT 7,8
4983-DC120-5		A P	יוח ווו א	NG	Serial data	UUT 7,8
1492-IQ16			ULDI		Input module	UUT 7,8
1762-OWB					Output module	UUT 7,8
Red Lion - Controller	·	·	·	· · ·		
DSPX00U					Data station	UUT 7,8
Fieldserver - Controller				· · · · ·		
FS-QS					Gateway protocol converter	UUT 7,8
MOUNTING: Mounted within unit.				SEISMIC LEVEL:	$S_{DS} = 2.50g$ for z/h = 1	I _P = 1.5
NOTES: Construction/Optio	ns: Model nur	nber uniquely	identifies ma		aterials, and configuration of subcom	ponents.

IN COMPLIANCE SERVICES INC.

ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SPECIAL SEISMIC CERTIFICATION

UUT 1

MANUFAC	TURER:	IN COMPL	IANCE SER	VICES INC		
NODEL NU	MBER:	nfiguration	for U	UT 1)		
	IT FUNCTION: FUEL OIL CONTROL					
SERIAL NU	IAL NUMBER: N/A					
DIN	IENSIONS	(in)	WEIGHT	RES. F	REC	ຊ. (Hz)
DEPTH	WIDTH	HEIGHT	(lb)	F-B	S-S	V
8	16	20	43	N/A	N/A	N/A
CODE & CI	RITERIA:	2019 CBC		ICC-ES	AC1	56
	ORATORY:		ON VALLEY			
REPORT &	DATE:	R83315		April 21		
S _{DS} (g)	z/h	A _{FLX-H} (g)	А _{RIG-Н} (g)	A _{FLX-V} (g) A	A _{RIG-V} (g)
2.50	1	4.00	3.00	1.68		0.68
Unit was fu maintaineo	ull of operating d structural in nt after shake	Rigid wall torque). Pa	ng the shake	onal per ma ng (4) 3/8in s using (4) F	anufa Grade Hoffm	e 5 bolts in an CMFK
CONSTRU	CTION:	Hoffman N	IEMA 4X stai	nless steel	enclo	sure.
SUBCOMP	ONENTS:	Siemens -	Enclosure (C Circuit Break 31), Square D 90-4).	er (5SJ411	1-7H	G41), Squ



IN COMPLIANCE SERVICES INC.

ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SPECIAL SEISMIC CERTIFICATION

UUT 2

MANUFAC	TURER:	IN COMPL	LIANCE SER	VICES INC					
MODEL N	JMBER:								
UNIT FUN		CONTROL F	PANEL						
SERIAL N	UMBER:								
DI	MENSIONS	WEIGHT	RES. F	FREQ. (Hz)					
DEPTH	WIDTH	HEIGHT	(lb)	F-B	F-B S-S V				
12	24	30	112	N/A	N/A N/A				
CODE & C		2019 CBC	;	ICC-ES	AC156				
	ORATORY:	NTS SILIC R83315	CON VALLEY						
REPORT &	& DATE:		April 22						
S _{DS} (g)	z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g) A _{RIG-V} (g				
2.50	1	4.00	3.00	1.68	0.68				
Unit was f maintaine	full of operatin		ing the shake mained functi	onal per ma	anufacturer				
MOUNTIN	G:	nuts (19ft- bracket. S	lb torque). Pa truts are rigid	inel connec ly mounted	ts using (4) H to the fixture.				
CONSTRU	DUNTING: Exterior enclosure is rigid wall mounted using (4) nuts (19ft-lb torque). Panel connects using (4) Ho bracket. Struts are rigidly mounted to the fixture. Interior enclosure is wall mounted to exterior enclosed in the state of the state								



IN COMPLIANCE SERVICES INC.

ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SPECIAL SEISMIC CERTIFICATION

UUT 3

MANUFAC	IUFACTURER: IN COMPLIANCE SERVICES INC.									
MODEL NU	IMBER:	C-2S								
UNIT FUNC	TION:	FUEL OIL CONTROL PANEL								
SERIAL NU	JMBER:	N/A								
DIN	MENSIONS	(in)	WEIGHT	RES. F	REQ	. (Hz)				
DEPTH	WIDTH	HEIGHT	(lb)	F-B	S-S	V				
8	20	24	75	N/A	N/A	N/A				
CODE & CI	RITERIA:	2019 CBC		ICC-ES	AC15	6				
TEST LAB	ORATORY:	NTS SILIC	ON VALLEY							
REPORT &	DATE:	R83315		April 21	, 2011					
S _{DS} (g)	z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g) A	_{RIG-V} (g)				
2.50	1	4.00	3.00	1.68		0.68				
Unit was for maintained	ull of operatin	FOR, $I_P = 1.3$ g content duri tegrity and rer table test.	ng the shake			turer				
MOUNTING):	torque). Pa	mounted usir anel connects rigidly mount	s using (4) I	loffma	an CMFK				
CONSTRU	CTION:	Saginaw NEMA 4X stainless steel enclosure.								
SUBCOMP	ONENTS:	V20), Sien 9001-KT38 Terminal E	Enclosure (S nens - Circuit 3LRR31), Sq 3lock (WDU-4 A0, 6ES7 24	Breaker (5 uare D - Sw 4), Seimens	SJ411 itch (9 - Con	1-7HG41 001-KS6 atrollers (6				



IN COMPLIANCE SERVICES INC.

ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SPECIAL SEISMIC CERTIFICATION

UUT 4

DOCUMENT NO.: 19121CR1.1

MANUFAC						
	TURER:	IN COMPL	LIANCE SER	VICES INC.		
MODEL NU	JMBER:	C-2X				
UNIT FUNC		FUEL OIL	CONTROL F	PANEL		
SERIAL NU	JMBER:	N/A				
DII	MENSIONS	(in) WEIGHT RES. FREQ. (Hz)				
DEPTH	WIDTH	HEIGHT	(lb)		S-S	V
12	30	30	164	N/A	N/A	N/A
CODE & C		2019 CBC		ICC-ES	AC156	5
	ORATORY:		ON VALLEY			
REPORT 8		R83315		April 22,		
S _{DS} (g)	z/h	A _{FLX-H} (g)	А _{RIG-Н} (g)	A _{FLX-V} (g) A _R	RIG-V (g)
2.50	1	4.00	3.00	1.68		~ ~~
		TOR, I _P = 1.	5	EO	RC	0.68 0 D [
Unit was f maintaine	ull of operatin	TOR, I_P = 1. g content duri tegrity and rer	5 ng the shake	table test. I	R C Jnit	;0D[
Unit was f maintaine	ull of operatin d structural in nt after shake	TOR, I _P = 1.3 g content duri tegrity and rer table test. Exterior er nuts (19ft- bracket. S	5 ng the shake	table test. L onal per ma id wall mound nel connect ly mounted	Jnit Inufact Inted using to the	turer sing (4) g (4) Ho fixture.
Unit was f maintaine requireme	ull of operatin d structural in nt after shake 3:	TOR, I _P = 1.3 g content duri tegrity and rere table test. Exterior er nuts (19ft- bracket. S Interior en	5 ng the shake mained function nclosure is rig lb torque). Pa truts are rigid	table test. L onal per ma id wall moun inel connect ly mounted Il mounted to	Jnit unufact nted us ts usin to the o exter	turer sing (4) g (4) Ho fixture, rior encle

FORNIA BUILDING CODE

IN COMPLIANCE SERVICES INC.

ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SPECIAL SEISMIC CERTIFICATION

UUT 5

MANUFAC	TURER:	IN COMPL	JANCE SER	VICES ING	С.		44 0		19.50				7-	1-
MODEL NU	MBER:	C-6S	1	_	-		-	-	-					
UNIT FUNC		FUEL OIL	CONTROL F		ALC: 1 10				-		-			
SERIAL NU	IMBER:	BER: N/A												
DIN	IENSIONS	(in) WEIGHT RES. FREQ. (Hz)						1			1.00			
DEPTH	WIDTH	HEIGHT	(lb)	F-B	S-S	V								
8	30	36	143	N/A	N/A	N/A								-
CODE & C	RITERIA:	2019 CBC		ICC-ES	S AC15	56								Concession in which the
TEST LAB		NTS SILIC	ON VALLEY									1	100	
REPORT &	DATE:	R83315		April 2	1, 2011	1			Contract of the		-		100	100
S _{DS} (g)	z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g) A	A _{RIG-V} (g)	10.00					100		100
2.50	1	4.00	3.00	1.68		0.68					q			100
Unit was for maintained	ull of operatin	FOR, $I_P = 1.5$ g content duri tegrity and rer table test.	ng the shake			cturer	MID		-	-	1	1		100
MOUNTING):	torque). Pa		s using (4)	Hoffm	an CMFK	nto struts (Unis SS mounting b 91							
CONSTRU	CTION:	Saginaw N	IEMA 4X stai	nless stee	l enclo	sure.								
SUBCOMP	ONENTS:	(60.13.8.0 7HG41), S KT38LYA3 Weidmuel	12.00540), Se Square D - Mc 31, 9001-KT3 Ier - Terminal	quare D - Jotor Starter 8LRR31), Block (W	Relay (r (GV2- Square DU-4),	9050-JCk -P14H7/6- e D - Swite Seimens	omation Direct - (11-V20), Siem -10A), Square I ch (9001-KS63 - Controllers (6 00-0XB0, 6ES7	ens - Cir) - Pilot I FBH2), S ES7 212	cuit Breake Lights (900 Square D - 2-1BD30-0>	ers (5S. 1-KT38 Push B KB0, KT	J4111-7 BLGG31 Sutton (9 FP-1000	HG41, , 9001 001-K), 6EP1	R1B), I-332-	4218-



IN COMPLIANCE SERVICES INC.

ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SPECIAL SEISMIC CERTIFICATION

UUT 6

DOCUMENT NO.: 19121CR1.1

0010						
MANUFAC	TURER:	IN COMPL	LIANCE SER	VICES INC.		
MODEL N	JMBER:	C-5X-UUT	6 (custom co	nfiguration fo	r UUT 6)	2 MORAL STREET, STREET
UNIT FUN	CTION:	FUEL OIL	CONTROL F	ANEL		
SERIAL N	JMBER:	N/A				
DI	MENSIONS	(in)	WEIGHT	RES. FR	REQ. (Hz)	
DEPTH	WIDTH	HEIGHT	(lb)	F-B S	-S V	
12	36	42	267	N/A N	I/A N/A	
CODE & C	RITERIA:	2019 CBC		ICC-ES A	C156	
-	ORATORY:	NTS SILIC	ON VALLEY			
REPORT 8	DATE:	R83315		April 22, 2	2011	and a second
S _{DS} (g)	z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
2.50	1	4.00	3.00	1.68	0.68	1
maintaine	ull of operating d structural int nt after shake	egrity and rer				PL .
MOUNTIN	3:	nuts (19ft- bracket. S	lb torque). Pa truts are rigid	inel connects ly mounted to	using (4) Hot the fixture.	3/8in Grade 5 bolts into struts (Unistrut P1000 or equal) with spring fman CMFKSS mounting brackets with (1) 3/8in Grade 5 bolt per sure back plate using (4) 3/8in Grade 5 bolts.
CONSTRU	CTION:	-				ure. Saginaw NEMA 4X stainless steel interior enclosure. -42EL3612SSLPPL), Automation Direct - Relay (750-3C-120A),

ORNIA BUILDING CODE

IN COMPLIANCE SERVICES INC.

ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SPECIAL SEISMIC CERTIFICATION

DOCUMENT NO.: 19121CR1.1

UUT 7

UUT 7									
MANUFAC	TURER:	IN COMPL	LIANCE SER	VICES IN	C.			11	
MODEL NU	JMBER:	C-1H-UUT	7 (custom co	nfiguratio	n for	UU	T 7)	60	A F
UNIT FUNC		FUEL OIL	CONTROL F	ANEL				1 2	1.1
SERIAL NU	JMBER:	N/A							-
DIN	MENSIONS	(in)	WEIGHT	RES.	. FRI	EQ.	(Hz)		1
DEPTH	WIDTH	HEIGHT	(lb)	F-B	S-:	S	V		
8	16	20	52	N/A	N//	A	N/A		
CODE & C	RITERIA:	2019 CBC	;	ICC-E	S AC	156	5		
TECTIAD									
IESI LAB	ORATORY:	NTS SILIC	CON VALLEY						
REPORT &		NTS SILIC R93510	CON VALLEY	Septe	mber	[.] 4, 2	2013	1	
			CON VALLEY A _{RIG-H} (g)	Septe A _{FLX-V}		- <u>-</u>	2013 IG-V (g)		
REPORT &	DATE:	R93510			(g)	A _R		1	
REPORT & S _{DS} (g) 2.50 IMPORT Unit was fr maintained	DATE: z/h 1 ANCE FACT ull of operatin	R93510 A _{FLX-H} (g) 4.00 FOR, I _P = 1.4 g content duri tegrity and rei	A _{RIG-H} (g) 3.00 5 ing the shake	A _{FLX-V} 1.68 table tes	(g) t. Uni	A _R	_{IG-V} (g) 0.68	Cont	



MOUNTING:	Rigid wall mounted using (4) 3/8in Grade 5 bolts directly into struts (Unistrut P1000 or equal) with spring nuts (19ft-lb torque). Struts are rigidly mounted to the fixture.
CONSTRUCTION:	Hoffman NEMA 4X stainless steel enclosure.
SUBCOMPONENTS:	Hoffman - Enclosure (CSD20168SS), Allen Bradley - Relay (700HC1A1-3-4), Allen Bradley - Circuit Breaker (1492- SP1C050), Floyd Bell - Audible Alarm (UO-09-628-Q), Allen Bradley - Pilot Lights (800T-QTH2G, 800T-QTH2R), Allen Bradley - Switches (800T-U17, 800T-H17D1), Allen Bradley - Push Button (800T-A2), Allen Bradley - Terminal Block (1492-J4), Allen Bradley - Controllers (1763-L16BWA, 2711PC-T6C20D, 1606-XLE80E, 1783-US05T, 4983- DC120-5, 1492-IQ16, 1762-OWB), Red Lion - Controller (DSPX00U), Fieldserver - Controller (FS-QS).



IN COMPLIANCE SERVICES INC.

ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SPECIAL SEISMIC CERTIFICATION

UUT 8

0010						
MANUFAC	TURER:	IN COMPL	LIANCE SER	VICES INC.		(NTS
MODEL NU	JMBER:	C-5X-UUT	8 (custom co	nfiguration f	or UUT 8)	
UNIT FUN	CTION:	FUEL OIL	CONTROL F	PANEL		and a state of the
SERIAL N	JMBER:	N/A				
DII	MENSIONS	(in)	WEIGHT	RES. F	REQ. (Hz)	
DEPTH	WIDTH	HEIGHT	(lb)	F-B	S-S V	
12	36	42	324	N/A	N/A N/A	
CODE & C	RITERIA:	2019 CBC		ICC-ES	AC156	
TEST LAB	ORATORY:	NTS SILIC	ON VALLEY			
REPORT 8	DATE:	R93510		Septemb	er 4, 2013	
S _{DS} (g)	z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g	
2.50	1	4.00	3.00	1.68	0.68	
2.50	•	4.00	5.00	1.00	0.00	
maintaine requireme	ull of operatin d structural in nt after shake	tegrity and rei table test.	mained functi	onal per ma	nufacturer	
MOUNTING	3:	nuts (19ft- bracket. S	lb torque). Pa truts are rigid	inel connect ly mounted t	s using (4) H to the fixture.	3/8in Grade 5 bolts into struts (Unistrut P1000 or equal) with spring offman CMFKSS mounting brackets with (1) 3/8in Grade 5 bolt per losure back plate using (4) 3/8in Grade 5 bolts.
CONSTRU	CTION:	Saginaw N	IEMA 4X stai	nless steel e	exterior enclo	sure. Hoffman NEMA 4X stainless steel interior enclosure.
SUBCOMF	ONENTS:	(60.13.8.0 Starter (14 Pilot Light (9001-KR	12.00540), Al IOM-D8E), All s (9001-KT38	llen Bradley en Bradley - LGG31, 900 Contact - Te	- Circuit Brea Contactor (1-KT38LRR rminal Block	Hoffman - Enclosure (CSD36308SS), Phoenix Contact - Relay kers (1492-SP2C150, 1492-SP1C050), Allen Bradley - Motor 00-C23D10), Floyd Bell - Audible Alarm (UO-09-628-Q), Square D - 1), Square D - Switch (9001-KS63FBH2), Square D - Push Button 6 (UT4, UT4-HESI, UTB 2.5), Allen Bradley - Controllers (1763-



IN COMPLIANCE SERVICES INC.

ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SPECIAL SEISMIC CERTIFICATION

UUT 9

DOCUMENT NO.: 19121CR1.1

MANUFAC	TURER:	IN COMPL	LIANCE SER	VICES INC.	
MODEL NU	JMBER:	C-6H			
UNIT FUN	CTION:	FUEL OIL	CONTROL F	ANEL	
SERIAL NU	JMBER:	N/A			
DII	MENSIONS	(in)	WEIGHT	RES. F	REQ. (Hz)
DEPTH	WIDTH	HEIGHT	(lb)	F-B	S-S V
8	30	36	200	N/A	N/A N/A
CODE & C	RITERIA:	2019 CBC		ICC-ES /	AC156
	ORATORY:	NTS SILIC	ON VALLEY		
REPORT 8	DATE:	R93510		Septemb	er 4, 2013
S _{DS} (g)	z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g
2.50	1	4.00	3.00	1.68	0.68
Unit was f maintaine	ull of operatin d structural in	FOR, I_P = 1. g content duri tegrity and ren	5 ing the shake		R COD
Unit was f maintaine requireme	ull of operatin d structural in nt after shake	FOR, I _P = 1.3 g content durit tegrity and rere table test. Interior en Exterior er nuts (19ft-	5 ing the shake	onal per man I mounted to id wall mour inel connect	Jnit nufacturer o exterior enc tted using (4) s using (4) H
Unit was f maintaine	ull of operatin d structural in nt after shake 3:	FOR, I_P = 1. g content durit tegrity and rere table test. Interior en Exterior er nuts (19ft- bracket. S	5 ing the shake mained functi closure is wa nclosure is rig lb torque). Pa	I mounted to id wall mour nel connect ly mounted t	Juit hufacturer o exterior enco hted using (4) s using (4) H o the fixture.

ORNIA BUILDING CODE