



**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION**

**APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)**

OFFICE USE ONLY

APPLICATION #: **OSP – 0208 – 10**

OSHPD Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: Lescure Manufacturing LLC

Manufacturer's Technical Representative: Mike Lescure

Mailing Address: PO Box 1007, Danville, CA 94526

Telephone: 925-283-2528 Email: mlescure@lescurecompany.com

Product Information

Product Name: Lescure Manufacturing LLC

Product Type: Fuel Oil Control System

Product Model Number: 248204-MCP001, 248204-RPC001, 248204-FPC001

(List all unique product identification numbers and/or part numbers)

General Description: Master Control Panel (248204- MCP001), Return Pump System (248204- RPC001)
and Filtration System (248204-FCP001) for diesel generators

Mounting Description: Rigid floor mounted

Applicant Information

Applicant Company Name: Lescure Manufacturing LLC

Contact Person: Mike Lescure

Mailing Address: PO Box 1007, Danville, CA 94526

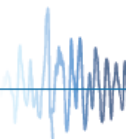
Telephone: 925-283-2528 Email: mlescure@lescurecompany.com

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2016.

Signature of Applicant:  Date: 1/27/2017

Title: President Company Name: Lescure Manufacturing LLC.

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





**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION**

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: Miyamoto International, Inc.

Name: Amir Gilani California License Number: S4733

Mailing Address: 1450 Halyard Drive, Suite 1 West Sacramento CA 95691

Telephone: 530-400-7187 Email: agilani@miyamotointernational.com

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

- Testing in accordance with: ICC-ES AC156
- Other (Please Specify): _____

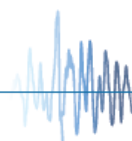
Testing Laboratory

Company Name: PEER, Richmond Field Station, University of California at Berkeley

Contact Name: Clément Barthès

Mailing Address: 1301 S. 46th Street Richmond CA 94804-4698

Telephone: (510) 665-3409 Email: clementbarthes@berkeley.edu





**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 (F_p/W_p) = 1.80

S_{DS} (Design spectral response acceleration at short period, g) = 2.50

a_p (In-structure equipment or component amplification factor) = 1.0

R_p (Equipment or component response modification factor) = 2.5

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) = See Attached

Overall dimensions and weight (or range thereof) = See Attached

Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: Yes No

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) = _____

Ω_0 (System overstrength factor) = _____

C_d (Deflection amplification factor) = _____

I_p (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): Attachment

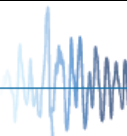
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2022

Signature:  Date: June 13, 2017

Print Name: Timothy J. Piland Title: SSE

Special Seismic Certification Valid Up to : S_{DS} (g) = 2.50 z/h = 1

Condition of Approval (if applicable): Approval is limited to units identical to the tested units.





Certified Product Summary

Manufacturer:	Lescure Manufacturing LLC
Product Name	Lescure Fuel Oil Control System
Product Type:	Automated Fuel Oil Control System
Model Number	248204

Item	Mo Tested	Dimensions (in.)			Weight, (lbs)	UUT
		Width		Height		
Master Control Panel (MCP)	248204-MCP001	48	16	72	650	1
Return Pump Console (RPC)	248204-RPC001	34	16	60	455	2
Filtration Pump Console (FPC)	248204-FPC001	60	30	71	1,085	3

Product Construction Summary
<p>UUT1, Master Control Panel: (Manufacturer Hoffman) Dripshield F/NEMA12 Enclosure 48"x72"x16" Material: Carbon steel</p> <p>UUT2, Return Pump Console: (Manufacturer Hoffman) A48R3616HCR NEMA3R HNG CVR BO Enclosure 34"x60"x16" Material: Carbon steel</p> <p>UUT3, Filtration Pump Console: (Manufacturer Lescure Manufacturing LLC.) NEMA 3R GA12 Galv. Enclosure 60"x71"x30" Material: Code Gauge Galvanized carbon steel</p>

Certified Subcomponent Summary			
Item	UUT	Description	Material
Incon	1	Fuel Management System Console, FMS Expansion Module Console, Smart Controller	Carbon steel/Plastic
Square D	2,3	NEMA, Thermal Unit, Relay, Manual Switch	Carbon steel/Plastic
Cutler Hammer	1	Time Delay Relay, 8 Pin Base for TRN1P120V	Plastic/Carbon steel
Crouse Hinds Condulets	1,2,3	Reducer Bushing	Carbon steel
Haight	2,3	Universal Pump, Universal Relief Valve Pump	Cast Iron
Leeson	2,3	Electric Pump Motor	Carbon steel/Copper/Plastic
Versa-Mount	3	Flowmeter	Brass/Plastic/Carbon steel
RCI Technologies	2	Fuel Purifier	Carbon steel
Franklyn Fueling	1	Leak Sensor	Stainless steel/Plastic/Aluminum

Summary Sheet for Unit Under Test (UUT) 1: Master Control Panel

Product Description	
Manufacturer:	Lescure Manufacturing LLC
Product Name:	Master Control Panel (MCP)
Model Number:	248204-MCP001

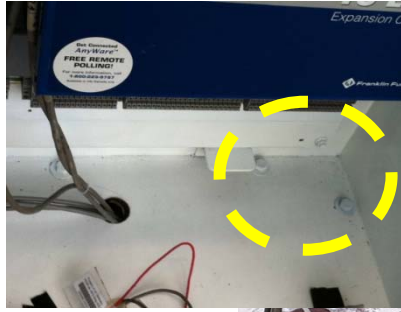
Construction
Dripshield F/NEMA12 Enclosure; (manufacturer Hoffman)

Product Subcomponents		
Item	Description	Material
Hoffman	AC SIDE MTG 115V 50/60HZ TYPE 4	Carbon steel/Copper/Plastic
Incon	Fuel Management System Console; FMS Expansion Module Console; Smart Controller	Carbon steel/Plastic
Square D	CONTACTOR NEMAThermal Unit; Relay	Carbon steel/Plastic
Cutler Hammer,	Time Delay Relay	Plastic/Carbon steel

Properties of UUT						
Weight and dimensions				Lowest natural frequencies		
Weigh, lbs	Width, in.	Depth, in.	Height, in.	X-	Y-	Z-
650	48	16	72	15.4	12.7	10.1

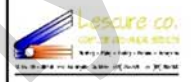
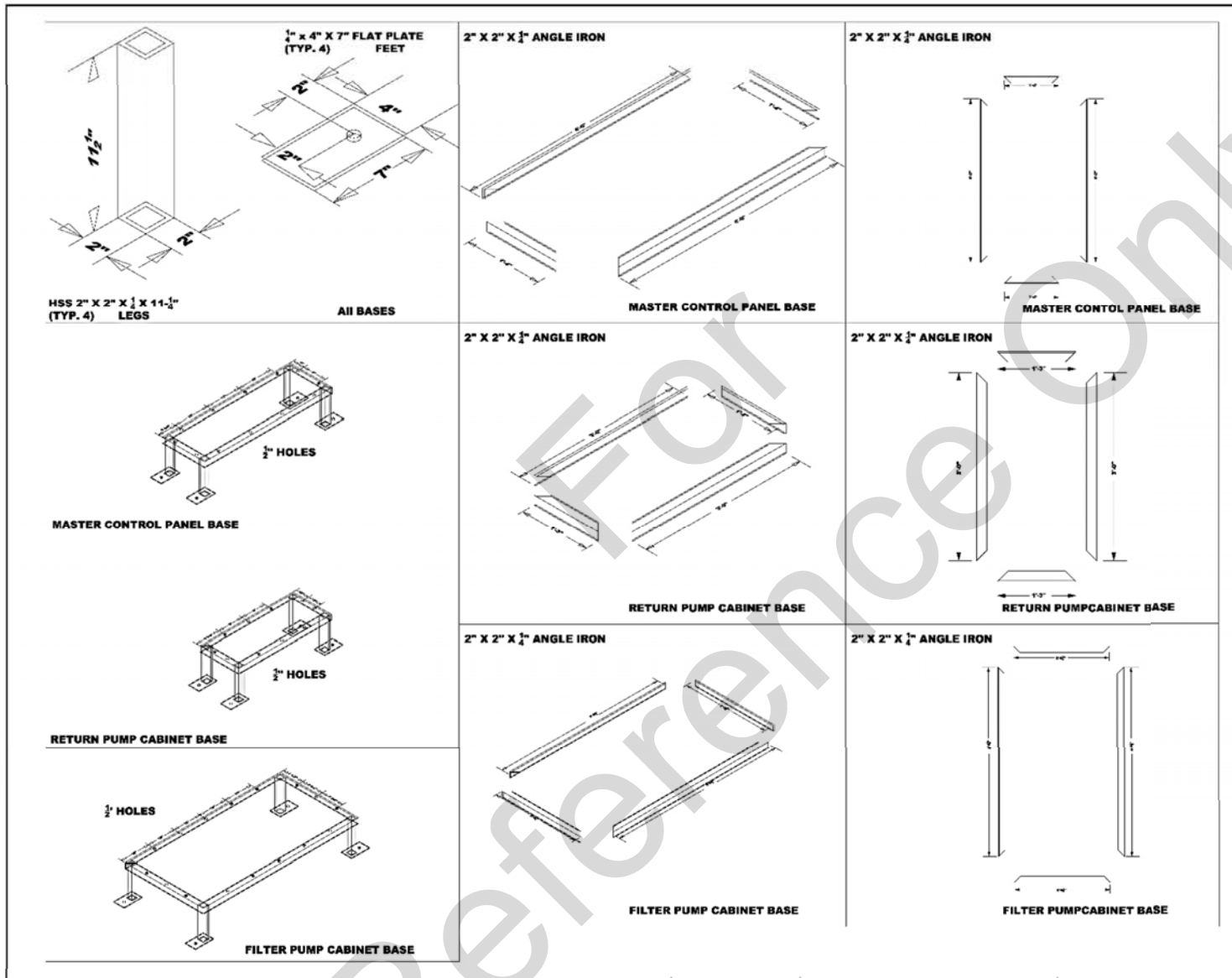
Highest Passed Seismic Certification Level for UUT										
Building Code	Test criteria	S_{ds}, g	z/h	I_p	Horizontal			Vertical		
					A_{FLX}, g	A_{RIG}, g	A_{FLX} / A_{RIG}	A_{FLX}, g	A_{RIG}, g	A_{FLX} / A_{RIG}
CBC 2016	ICC-ES AC 156	2.50	1.0	1.5	4.00	3.00	1.33	1.67	0.67	2.5
UUT1 was full of content during the seismic tests. It maintained structural stability and was functional following the seismic tests.										

Test mounting detail for UUT1



Attached to support platform using ten (10) 1/2 in. A307 bolts. Support platform bolted to ground using four (4) 1/2 in. A307 bolts (one per support leg) B-line FW-1/2" 17/32 thick, Carbon steel Electro Galvanized Flat Washer. Base Plate B200-Square Washer 1-5/8 Sq. by 1/4" Thick

Support platform: Four 2x2x1/4 in. ASTM A500 square tube legs; 2x2x1/4 in. ASTM A36 angles for platform, Four 4x6 ASTM A36 support feet



REVISION	
NO.	DESCRIPTION
1	Fuel Oil Equipment Stands

PROJECT NAME:
 Precise Manufacturing
 3667 Mt. Diablo Blvd
 Lafayette, CA 94519
 JOB NUMBER: 0000

SCALE: AS SHOWN
 DATE: 01/22/2010
 DRAWN:
 CHECKED:
 TITLE: Prefab

Summary Sheet for Unit Under Test (UUT) 2: Return Pump Console

Product Description	
Manufacturer:	Lescure Manufacturing LLC
Product Name:	Return Pump Console (RPC)
Model Number:	248204-RPC001

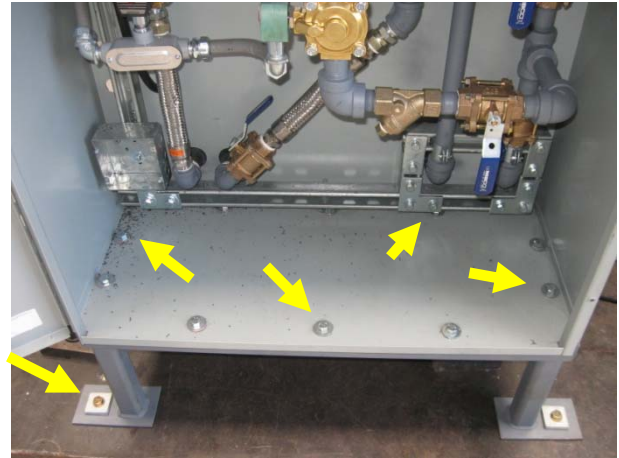
Construction
A48R3616HCR: NEMA3R HNG CVR BO Enclosure (manufacturer Hoffman)

Product Subcomponents		
Item	Description	Material
Square D	Manual Starter; Thermal Unit	Carbon steel/Plastic
Haight	Universal Pump	Cast Iron
Leeson	Electric Motor	Carbon steel/Copper/Plastic
Versa-Mount	Flowmeter	Brass/Plastic/Carbon steel
AZCO	Solenoid Valve N/C	Brass/Plastic/Carbon steel

Properties of UUT						
Weight and dimensions				Lowest natural frequencies		
Weigh, lbs	Width, in.	Depth, in.	Height, in.	X-	Y-	Z-
455	34	16	60	15.4	13.7	10.1

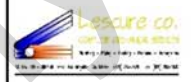
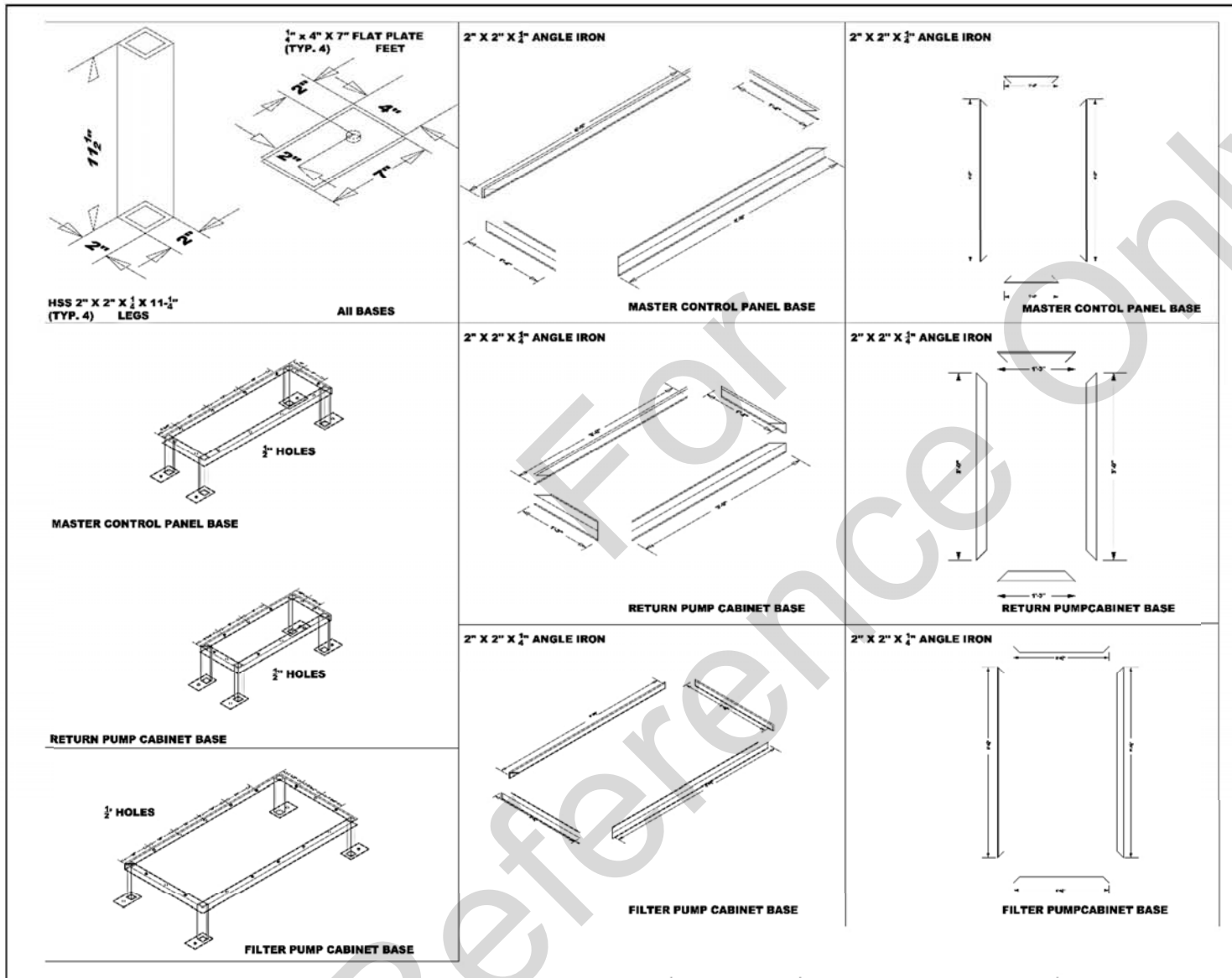
Highest Passed Seismic Certification Level for UUT										
Building Code	Test criteria	S_{Ds} , g	z/h	I_p	Horizontal			Vertical		
					A_{FLX} , g	A_{RIG} , g	A_{FLX} / A_{RIG}	A_{FLX} , g	A_{RIG} , g	A_{FLX} / A_{RIG}
CBC 2016	ICC-ES AC 156	2.50	1.0	1.5	4.00	3.00	1.33	1.67	0.67	2.5
UUT2 was full of content during the seismic tests. It maintained structural stability and was functional following the seismic tests.										

Test mounting detail for UUT2



Attached to support platform using ten (10) 1/2 in. A307 bolts. Support platform bolted to ground using four (4) 1/2 in. A307 bolts (one per support leg) B-line FW-1/2" 17/32 thick, Carbon steel Electro Galvanized Flat Washer. Base Plate B200-Square Washer 1-5/8 Sq. by 1/4" Thick

Support platform: Four 2x2x1/4 in. ASTM A500 square tube legs; 2x2x1/4 in. ASTM A536 angles for platform, Four 4x6 ASTM A36 support feet



REVISION	
NO.	DESCRIPTION
1	Fuel Oil Equipment Stands

PROJECT NAME:
 Precure Manufacturing
 3667 Mt. Diablo Blvd
 Lafayette, CA 94509
 JOB NUMBER: 0000

SCALE: AS SHOWN
 DATE: 01/22/2010
 DRAWN:
 CHECKED:
 TITLE: Prefab

Summary Sheet for Unit Under Test (UUT) 3: Filtration Pump Console

Product Description	
Manufacturer:	Lescure Manufacturing LLC
Product Name:	Filtration Pump Console (FPC)
Model Number:	248204-FPC001

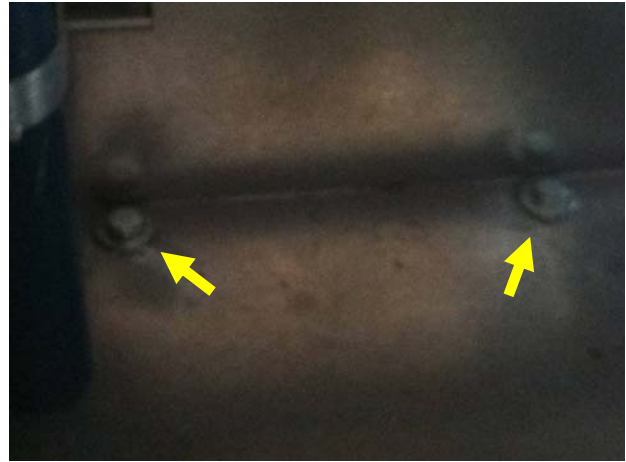
Construction
BOX607130: 60"x71"x30" GA12 Galv Enclosure (manufacturer Lescure Manufacturing LLC.)

Product Subcomponents		
Item	Description	Material
Square D	Manual Switch	Carbon steel/Plastic
Haight	Universal Relief Valve Pump	Cast Iron
Leeson	Electric Pump Motor	Carbon steel/Copper/Plastic
RCI Technologies	Fuel Purifier	Carbon steel
AZCO	N/C Solenoid Valve	Brass./Plastic/Carbon steel
Franklyn Fueling	Leak Sensor	Stainless steel/Plastic/Aluminum

Properties of UUT						
Weight and dimensions				Lowest natural frequencies		
Weigh, lbs	Width, in.	Depth, in.	Height, in.	X-	Y-	Z-
1,085	60	30	71	14.3	13.1	10.1

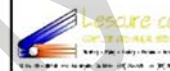
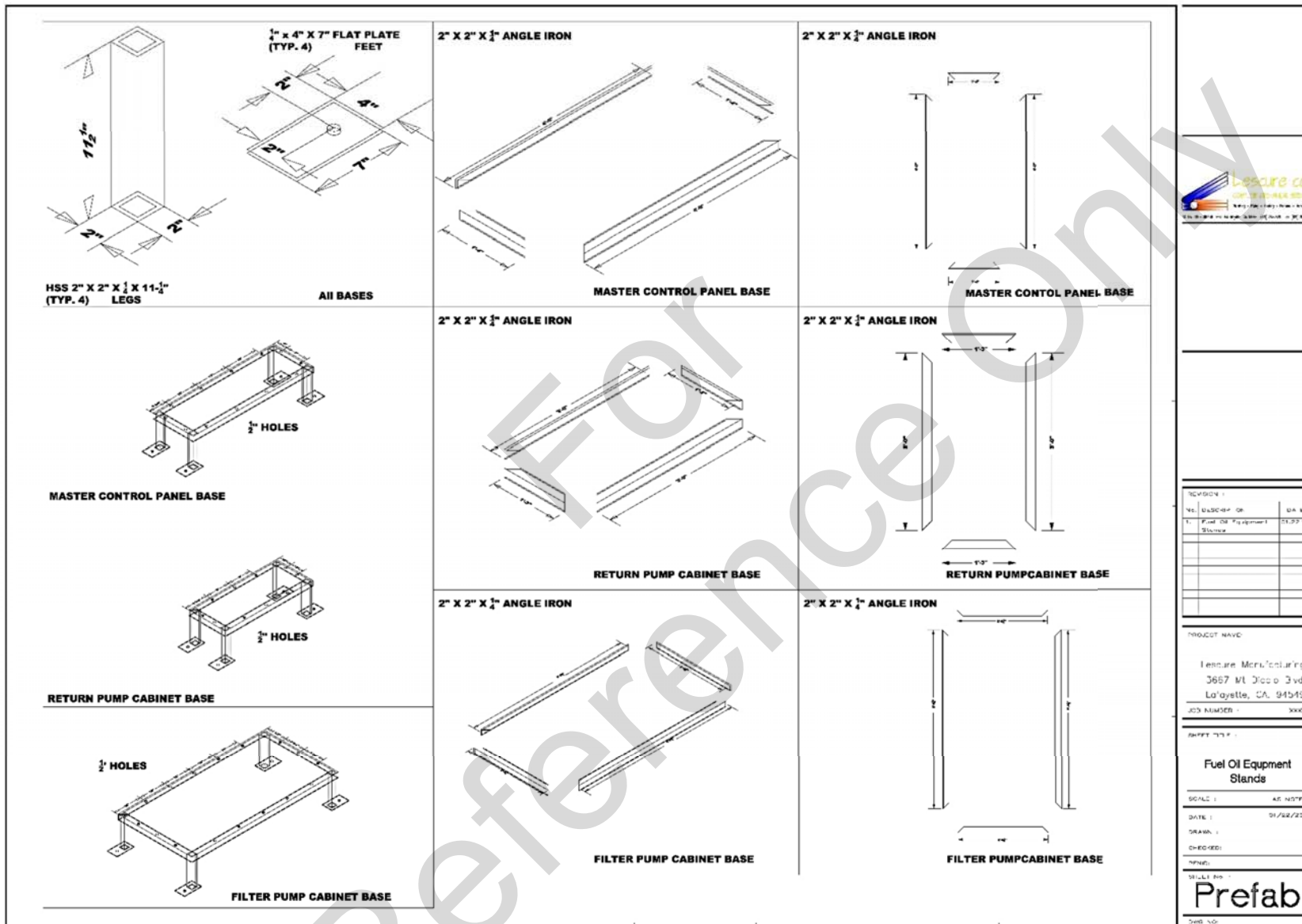
Highest Passed Seismic Certification Level for UUT										
Building Code	Test criteria	S_{ds} , g	z/h	I_p	Horizontal			Vertical		
					A_{FLX} , g	A_{RIG} , g	A_{FLX} / A_{RIG}	A_{FLX} , g	A_{RIG} , g	A_{FLX} / A_{RIG}
CBC 2016	ICC-ES AC 156	2.50	1.0	1.5	4.00	3.00	1.33	1.67	0.67	2.5
UUT3 was full of content during the seismic tests. It maintained structural stability and was functional following the seismic tests.										

Test mounting detail for UUT3



Attached to support platform using ten (10) 1/2 in. A307 bolts. Support platform bolted to ground using four (4) 1/2 in. A307 bolts (one per support leg) B-line FW-1/2" 17/32 thick, Steel Electro Galvanized Flat Washer. Base Plate B200-Square Washer 1-5/8 Sq. by 1/4" Thick

Support platform: Four 2x2x1/4 in. ASTM A500 square tube legs; 2x2x1/4 in ASTM A36 angles for platform, Four 4x6 ASTM A36 support feet



REVISION	
NO.	DESCRIPTION
1	Fuel Oil Equipment Stand

PROJECT NAME:

Precure Manufacturing
 3667 Mt. Diablo Blvd
 Lafayette, CA 94519

JOB NUMBER: 0000

DRAWN BY:

Fuel Oil Equipment Stand

SCALE: AS SHOWN

DATE: 01/22/2010

DRAWN:

CHECKED:

INCHES:

SCALE: 1/8" = 1'-0"

Prefab

Sheet No.: