

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

OFFICE USE ONLY APPLICATION FOR OSHPD SPECIAL SEISMIC **CERTIFICATION PREAPPROVAL (OSP) APPLICATION #:** OSP - 0508-10 **OSHPD Special Seismic Certification Preapproval (OSP)** New □ Renewal **Manufacturer Information** Bryan Steam, LLC Manufacturer: Manufacturer's Technical Representative: Gregory A. Minard, Manager of Engineering Mailing Address: 783 North Chili Ave., Peru, IN 46970 Telephone: 765.473.6651 Ext. 6029 Email: gminard@bryansteam.com **Product Information** Product Name: Control Panels Alarm and Pump Panels Product Type: Product Model Number: Alarm and Pump Panels (List all unique product identification numbers and/or part numbers) General Description: Galvanized carbon steel enclosures with internal components as listed in the attachments. Mounting Description: Rigidly Mounted to Wall **Applicant Information** Applicant Company Name: The VMC Group Contact Person: Mr. John Giuliano Mailing Address: 113 Main Street, Bloomingdale, NJ 07403 Email: john.giuliano@thevmcgroup.com Telephone: 973-838-1780 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: 2/21/17 Title: President Company Name: The VMC Group

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





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California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
Company Name: _The VMC Group
Name: Mr. Ken Tarlow California License Number: SE2851
Mailing Address: 113 Main St, Bloomingdale, NJ 07403
Telephone: 973-838-1780 Email: ken.tarlow@thevmcgroup.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: ☐ Other (Please Specify):
Testing Laboratory
Company Name: _Dynamic Certification Laboratories
Contact Name: Kelly Laplace, Project Manager and Laboratory Quality Manager
Mailing Address: 1315 Greg Street, Suite 109
Telephone: (775) 358-5085 Email: kelly@shaketest.com





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05/09/2017



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Seismic Parameters
Design in accordance with ASCE 7-10 Chapter 13: ⊠ Yes □ No
Design Basis of Equipment or Components $(F_p/W_p) = 1.50(S_{DS} = 2.0, z/h = 1); 1.3 (S_{DS} = 2.5, z/h=0)$
S _{DS} (Design spectral response acceleration at short period, g) = 2.00 (z/h = 1) & 2.50 (z/h = 0)
a _p (In-structure equipment or component amplification factor) = 2.5
R _p (Equipment or component response modification factor) = 6.0
Ω_0 (System overstrength factor) = 2.0
I _p (Importance factor) = 1.5
z/h (Height factor ratio) = 1.0 (Sps = 2.00) & 0.0 (Sps = 2.50)
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
Other(s) (Please Specify):
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2022
Signature: Date: 5/9/2017
Print Name: M. R. Karim Title: SHFR Special Seismic Certification Valid Up to : $S_{DS}(g) = See \ Above$ $z/h = See \ Above$
Condition of Approval (if applicable):
Condition of Approval (ii applicable).

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OSHPD

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Table 1: Certified Control Panels

Part #	Description	Phase	Input Voltage (VAC)	FLA (A)	NEMA type	Height (in)	Width (in)	Depth (in)	Maximum Weight (lbs)	Manufacturer	Enclosure Construction	Installation Method	UUT
299990.20	Alarm panel	1	120	0.3	12	14.75	13	8	26	Bryan Steam	14 gauge Carbon Steel	Wall Mounted	UUT 1
91362.4282	Pump Panel	3	460	9	12	30	24	11	105	Bryan Steam	14 gauge Carbon Steel	Wall Mounted	UUT 2

Table 2: Certified Alarm Control Panel Subcomponents

Table 2. Certified Alaif				
Component	Component part #	Manufacturer	Material	UUT
Terminal Stop End Anchor	1492-EAJ35	Allen Bradley	Plastic	1
Terminal	1492-J3	Allen Bradley	Plastic	1
Ground Terminal	1492-JG4	Allen Bradley	Plastic	1
Terminal Center Jumpers	1492-CJLJ5-50	Allen Bradley	Plastic	1
Din Rail	199-DR1	Allen Bradley	Carbon Steel	1
Red Pilot Lamp	800FP-P4PN5R	Allen Bradley	Plastic	1
Selector Switch	800FP-SM22PX10	Allen Bradley	Plastic	1
Alarm Silencing Switch	800FP-F2PX10	Allen Bradley	Plastic	1
Markers	1492-MS10X17	Allen Bradley	Plastic	1
Terminal Block Markers	1492-MS5X12	Allen Bradley	Plastic	1
DPDT Relay	700-HLT12U1	Allen Bradley	Plastic	1
Jumpers	700-TBJ20R	Allen Bradley	Plastic	1
Terminal Strip Fuse Holder	1492-H6	Allen Bradley	Plastic	1
Stepdown Transformer	1497B-A1-M13-3-N	Allen Bradley	Carbon Steel	1
Alarm Sounder	855P-B10LE22	Allen Bradley	Plastic	1
Terminal Strip End Barrier	1492-N37	Allen Bradley	Plastic	1
5 Amp 250 V Fuse	MDL-5-R	Bussmann	Copper	1
3-2/10 Amp 250 V Amp Fuse	FNM-3-2/10	Bussmann	Copper	1
2½ Amp Fuse	LP-CC-2½	Bussmann	Copper	1
Panel Insert	A14P12	Hoffman	Carbon Steel	1
1" Wide Wiring Duct	F1X2LG6	Panduit	Plastic	1
1" Wide Wiring Duct Cover	C1LG6	Panduit	Plastic	1
Grounding Bar Kit	ECGB20	Siemens	Copper	1
Controller	RWF55.5	Siemens	Plastic	1

Table 3: Certified Pump Control Panel Subcomponents

Component	Component part #	Manufacturer	Material	UUT
·				
Terminal Stop End Anchor	1492-EAJ35	Allen Bradley	Plastic	2
Terminal	1492-J3	Allen Bradley	Plastic	2
Ground Terminal	1492-JG4	Allen Bradley	Plastic	2
Terminal Center Jumpers	1492-CJLJ5-50	Allen Bradley	Plastic	2
Din Rail	199-DR1	Allen Bradley	Carbon Steel	2
Contactor	100-C09D10	Allen Bradley	Plastic	2
Overload	193-EECB E1	Allen Bradley	Plastic	2
Selector Switch	800FP-SM32PX20	Allen Bradley	Plastic	2
Selector Switch	800FP-SM22PX10	Allen Bradley	Plastic	2
Control Circuit Transformer	1497-G-BASX-3-N	Allen Bradley	Carbon Steel	2
Power Distribution Block	1492-PDM3141	Allen Bradley	Plastic	2
Power Distribution Block Cover	1492-PBC9	Allen Bradley	Plastic	2
Disconnect Switch	194R-J30-1753	Allen Bradley	Plastic	2
Disconnect Switch Handle	194R-PB	Allen Bradley	Plastic	2
Disconnect Switch Internal Operating Handle	194R-N1	Allen Bradley	Plastic	2
Green Pilot Lamp	800FP-P3PN5G	Allen Bradley	Plastic	2
SPDT Slim Line Relay	700-HK32A1	Allen Bradley	Plastic	2
8 Blade Based Minature Relay Socket	700-HN122	Allen Bradley	Plastic	2
On Delay Timing Relay	700-FEA1TU22	Allen Bradley	Plastic	2
Red Pilot Lamp	800FP-P4PN5R	Allen Bradley	Plastic	2
Terminal Block Markers	1492-MS5X12	Allen Bradley	Plastic	2
5 Amp Fuse	LP-CC-5	Bussmann	Copper	2
5 Amp Fuse	FNM-5	Bussmann	Copper	2
5 Amp Fuse	LPJ-5SP	Bussmann	Copper	2
Panel Insert	A30P24G	Hoffman	Carbon Steel	2
2¼" Wide Wiring Duct	F2X2LG6	Panduit	Plastic	2
2¼" Wide Wiring Duct Cover	C2LG6	Panduit	Plastic	2
Grounding Bar Kit	ECGB20	Siemens	Copper	2



UNIT UNDER TEST (UUT) Summary Sheet

UUT-01

VMA-50812-01

Model Line	Model Number	Manufacturer
Control Panel	Pump Control	Bryan Steam

Product Construction Summary

Options / Subcomponent Summary

Red Pilot Lamp, Selector Switch, Alarm Silencing Switch, DPDT Relay, Stepdown Transformer, Alarm Sounder: Allen Bradley Grounding Bar Kit, Controller: Siemens
Component was full of content during test

UUT Properties										
Weight		Lowest Nat. Freq. [Hz]								
[lbs]	Depth	Width I			Height		S-S	٧		
26	8	13		15		N/A	N/A	N/A		
	UUT Highest Passed Seismic Run Information									
Building Code	Test Criteria	riteria S _{DS} (g) z/h I _P A _{FLX-I}					A _{FLX-V} (g)	A _{RIG-V} (g)		
CBC 2016	ICC-ES AC156	2.00	1.00	1.50	3.20	2.40	1.67	0.67		

Test Mounting Details

UUT-01 was wall bolted directly to the wall mount fixture using (4) 1/4" Grade 5 bolts.



All units were filled with contents and maintained structural integrity and functionality after shake table test

¹⁴ gauge carbon steel enclosure



UNIT UNDER TEST (UUT) Summary Sheet

UUT-02

VMA-50812-01

Model Line	Model Number	Manufacturer
Control Panel	Alarm panel	Bryan Steam

Product Construction Summary

Options / Subcomponent Summary

Red Pilot Lamp, Selector Switch, Alarm Silencing Switch, DPDT Relay, Stepdown Transformer, Alarm Sounder: Allen Bradley Grounding Bar Kit, Controller: Siemens
Component was full of content during test

UUT Properties										
Weight		Dimensi	Lowest Nat. Freq. [Hz]							
[lbs]	Depth	Wie	dth	Height		F-B	S-S	٧		
105	11	2	4	;	30	N/A	N/A	N/A		
	UUT Highest Passed Seismic Run Information									
Building Code	Test Criteria	S _{DS} (g) z/h		l _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)		
CBC 2016	ICC-ES AC156	2.00	1.00	1.50	3.20	2.40	1.67	0.67		

Test Mounting Details

UUT-02 was wall bolted directly to the wall mount fixture using (4) 3/8" Grade 5 bolts.



All units were filled with contents and maintained structural integrity and functionality after shake table test

¹⁴ gauge carbon steel enclosure