os	Dpd	State of California – Health and Human Services Agency
Offi	ce of Statewide Health PI	anning and Development
Facil 400 R	ities Development Division Street. Suite 200, Sacramento, California 9	www.oshpd.ca.gov/fdd 95811-6213 Phone (916) 440-8300 Fax (916) 654-2973
		ION FOR PREAPPROVAL TIFICATION OF EQUIPMENT AND COMPONENTS
	For Office Use Only	
	APPLICATION NO. OSP-0221-10	Check whether application is: NEW X RENEWAL
1.0	Praxair, Incorporated	Greg Gorton, General Superintendent
1.0	Manufacturer 39 Old Ridgebury Road	Manufacturer's Technical Representative Danbury, CT 06810
		Mailing Address
	(909) 349-4053 Telephone	Greg_gorton@praxair.com <i>E-mail Address</i>
2.0	Medical Oxygen Supply	Oxygen Supply Regulator Module
2.0	Product Name	Product Type
		CPE-X-2635-EQ
	Product model No (List	all unique product identification numbers and/or serial numbers)
	General Description: The approval is The medical oxygen supply regulating pressure switches, pressure regulator	limited to rigid floor mounted units identical to tested unit only. g module contains various filter assemblies, pressure gages, rs, and valves.
3.0	DYNAMIC CERTIFICATION LABORATORIES, LLC	JOSEPH LA BRIE, S.E.
5.0	Applicant Company Name	Contact Person
	1315 GREG STREET, SUIT	E 109 SPARKS, NV 89431
	(775) 358-5085	Mailing Address LaBrie@makeitright.net
	Telephone	E-mail Address
	eby agree to reimburse the Offic s incurred by the department for	
	1110	October 18, 2011
	Signature of Applicant Managing Partner	Date Dynamic Certification Laboratories, LLC
	Title	Company Name

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Office of Statewide Health Planning and Development

"Equitable Healt. Are Accessibility for California"

0		Registered Design Professional Preparing the Report DYNAMIC CERTIFICATION LABORATORIES, LLC									
.0		Company Name									
-		JOSEPH LA BRIE, S.E.	Company Name	SE-3566							
		Contact Name		California License Number							
	1315 0	GREG STREET, SUITE 109, SPARKS, NV 894	31								
2		Mailing Address									
8		(626) 445-0366		LaBrie@MakeItRight.net							
		Telephone		E-mail Address							
5.0		California Licensed Structural Engineer Review and Acceptance of the Report DYNAMIC CERTIFICATION LABORATORIES, LLC									
		DR. AHMAD ITANI, SE	Company Name	9 SE-5220							
		Contact Name 1315 GREG STREET, SUITE 109, SPARKS, N	V 89431	Cali	fornia License Number						
		(775) 358-5085	Mailing Address	ss Itani@shaketest.com							
				2012/00/C	ail Address						
	Anal	Telephone horage Pre-Approval		E-m	all Address						
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	Cert	(Separate application for anchorage Anchorage is not Pre-approved <i>ification Method</i>	pre-approval is requ		🗌 Other (Plea	ase Specify)					
	Cert	(Separate application for anchorage Anchorage is not Pre-approved <i>ification Method</i> <i>Testing in accordance with:</i> <i>Analysis</i>	pre-approval is requ		□ Other (Plea	ase Specify)					
	Cert	(Separate application for anchorage Anchorage is not Pre-approved <i>ification Method</i> Testing in accordance with:	pre-approval is requ	-156		ase Specify)					
		(Separate application for anchorage Anchorage is not Pre-approved <i>ification Method</i> Testing in accordance with: Analysis Experience data	pre-approval is requ	-156		ase Specify)					
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D.		(Separate application for anchorage Anchorage is not Pre-approved <i>ification Method</i> Testing in accordance with: Analysis Experience data Combination of Testing, Analysis, and ting Laboratory (if applicable) DYNAMIC CERTIFICATION LABORATORIE Company Name	nd/or Experience Da	ta (Please Spe	ccify): Testing CE, PROJECT ENGIN Contact Name						
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Overall dimensions and weight (or range thereof) =SEE ATTACHMENT Equipment or Components @ grade designed in accordance with ASCE 7-05 Chapter 15: \Box Yes \boxtimes 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: \Box Yes \boxtimes No
Equipment or Components @ grade designed in accordance with ASCE 7-05 Chapter 15: \Box Yes \boxtimes 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 Components @ grade designed in accordance with ASCE 7-05 Chapter 15: \Box Yes \boxtimes 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
Equipment or Components @ grade designed in accordance with ASCE 7-05 Chapter 15: \Box Yes \boxtimes 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
Equipment or Components @ grade designed in accordance with ASCE 7-05 Chapter 15: \Box Yes \boxtimes 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
Equipment or Components @ grade designed in accordance with ASCE 7-05 Chapter 15: \Box Yes \boxtimes 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
Equipment or Components @ grade designed in accordance with ASCE 7-05 Chapter 15: \Box Yes \boxtimes No Design Basis of Equipment or Components (V/W) = S_{DS} (Spectral response acceleration at short period) =
Equipment or Components @ grade designed in accordance with ASCE 7-05 Chapter 15: Yes No Design Basis of Equipment or Components (V/W) =
Equipment or Components @ grade designed in accordance with ASCE 7-05 Chapter 15: 🗌 Yes 🛛 No
Overall dimensions and weight (or range thereof) =SEE ATTACHMENT
Building period limits (if any) =NONE
Equipment or Component fundamental period(s) =SEE ATTACHMENT
z/h (Height factor ratio)=0.0
I_p (Importance factor) = 1.5
R_p (Equipment or component response modification factor) =1.5
a_p (In-structure equipment or component amplification factor) =1.0
S_{DS} (Spectral response acceleration at short period) = 2.50g
Design Basis of Equipment or Components (F_p/W_p) = 1.0
Design in accordance with ASCE 7-05 Chapter 13: 🛛 Yes 🗌 No
Approval Parameters
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Table 1

Special Seismic Certification

((
)) DCL Dynamic Certification Laboratories

Approved Units

Manufacturer: Praxair Product Line: Medical Oxygen Supply

Certified Product Construction:

12 gage stainless steel panel enclosure (not NEMA rated).

Certified Options:

The approved unit contains various filter assemblies, pressure gages, pressure switches, pressure regulators and valves to make up a complete medical oxygen supply regulating system.

Certified Mounting Description:

All equipment is to be rigid-mounted

	Dimensions (inches)			Resonance Frequency (Hz)			Operating Weight* (lb)	Mounting	Sds Level Approved (g)
Model	Length Width Height		Front-Back Side-Side Vertical						
CPE-X-2635-EQ	10.3	37	49	13.5	18	>33	450	Rigid	2.5

*Note: operating weight includes manufacturer-provided mounting frame.

The Unit Under Test (UUT) listed in the above table was subjected to AC156 level Sds 2.5 g tests. Pre- and post-shake functionality requirements were performed on the UUT by DCL staff. It was verified that the UUT satisfied the post-shake functional requirements with equivalent results to those of the pre-test functional compliance testing. It was determined that the UUT was operational.

Special Seisr	ible 3 nic Certificatio Components	n	(()) DCL Dynamic Certification Laboratories				
Ianufacturer: Praxair							
roduct Line: Medical Oxygen							
Model Number: CPE-X-2635-E	Q						
Component Description	Manufacturer	P	art Number	1			
Filter Assembly	АМКО	В	AG-96-1615				
Pressure Gauge	Ashcroft	63-10084	-02B-XLJ-X6B-400#	E)			
Pressure Gauge	Ashcroft	5	02L XLJ6BZQ FW 100 psi				
Pressure Switch	Barksdale		01H-A150SS				
Pressure Regulator	Generant	20	GDR 750B V B				
Back Pressure Regulator	CASH Valve		10673				
Valve Ball	Watts	1" B-6801	I-VT-OC-VB-OVS-BB				
Valve Safety	Generant		B-9426N 75				
Valve Safety	Generant	CF	RV-250B-K-400				
	343						

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UU	T1 Unit Und	ler Test	t	(()) DCL Dynamic Certification Laboratories					
	Summary S	heet							
Manufacturer: Pr	axair						2		
Product Line: Med	lical Oxygen Suppl	y							
Model Number:	CPE-X-2635-EQ								
Product Construct	teel panel enclosu	re (not NEN	/A rated).				74	2	
Options / Compon The unit contained complete medical	l various filter asse		••••	ressure switc	hes, pressure r	egulators and v	alves to make	up a	
			UU	T Properties					
Operating		Din	nensions (inch	es)		Lowest N	latural Freque	ency (Hz)	
Weight* (lb) Depth Width				Height		Front-Back	Side-Side	Vertical	
450	49		13.5	17.8	>33				
	· · · · · · · · · · · · · · · · · · ·		Seismic	Test Parame	ters				
Building Code	Test Criteria	Sds	z/h	lp	Aflx-H	Arig-H	Aflx-V	Arig-V	
CBC 2010	2010 ICC-ES AC156	2.5	0.0	1.5	2.5	1	1.67	0.67	

*Note: Operating weight includes the weight of the manufacturer-provided mounting frame.

Unit Mounting Description:



UUT1 was attached to its manufacturer-provided mounting frame using 3/8-inch Grade 8 bolts, 8 total (4 per side). The frame was attached to the DCL shake table interface plate using 1/2-inch Grade 5 bolts, 8 total (4 per side).

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DCL No. 31109-1101