

# DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI SPECIAL SEISMIC	OFFICE USE ONLY
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP-0558
HCAI Special Seismic Certification Preapproval (OSP)	
Type: New X Renewal	
Manufacturer Information	
Manufacturer: Global Plasma Solutions, Inc. DBA GPS Air	
Manufacturer's Technical Representative: Paul Glowacki	
Mailing Address: 3101 Yorkmont Road, Suite 400, Charlotte, NC 28208	
Telephone: (980) 279-5622 Email: PGlowacki@gp	sair.com
FORCODECO	
Product Information	ND,
Product Name: Air Conditioning Units	1 to
Product Type: Air Filters	2
Product Model Number: See Attachment	
General Description: Modular ionization system consisting of 6-inch ion power cable with connectors, power supply, and c	nization bar sections, end cap, ion detector sensor,
Mounting Description: Units are wall mounted (rigid or flexible)	
Tested Seismic Enhancements: None	100
Applicant Information	
Applicant Company Name: Dynamic Certification Laboratories	01
Contact Person: Kelly Laplace	
Mailing Address: 1315 Greg Pkwy # 109, Sparks, NV 89431	
Telephone: (775) 385-5085 Email: kelly@shaketes	st.com
Title: Business Manager	

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

STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY

OSP-0558

HCA



# DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

California Licensed Structural Engineer Respo	onsible for the Engineering and Test Report(s)
Company Name: THE VMC GROUP	
Name: Kenneth Tarlow	California License Number: S2851
Mailing Address: 980 9th Street, 16th Floor, Sacrame	nto, CA 95814
Telephone: (832) 627-2214 Em	ail: ken.tarlow@thevmcgroup.com
Certification Method	
GR-63-Core X ICC-ES AC156	☐ IEEE 344
Other (Please Specify):	
EC	RCODECO
Testing Laboratory	MA
Company Name: DYNAMIC CERTIFICATION LABOR	ATORY (DCL)
Contact Person: Kelly Laplace	
Mailing Address: 1315 Greg St., Ste 109, Sparks NV	39431 m
Telephone: (775) 358-5085	ail: Kelly@shaketest.com
DAT	E: 09/14/2022
RITA	
DAT	BUILDING

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# DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

#### **Seismic Parameters**

Design Basis of Equipment or Components	$(F_p/W_p) = \frac{1.50 \text{ (Sds 2.0g, z/h=1); 1.13 (Sds)}}{1.13 \text{ (Sds)}}$	2.5g, z/h=0)						
SDS (Design spectral response accele	eration at short period, g) = $Sds 2.0g$ , z/h=1; So	ls 2.5g, z/h=0						
ap (Amplification factor) =	2.5							
Rp (Response modification factor) =	6.0							
$\Omega_0$ (System overstrength factor) =	2.0							
lp (Importance factor) =	1.5							
z/h (Height ratio factor) =	1 and 0							
Natural frequencies (Hz) =								
Overall dimensions and weight =	See Attachment							
HCAI Approval (For Office Use Only)	Approval Expires on 09/14/2028							
Date: <u>9/14/2022</u>	OSP-0558							
Name: Mohammad Karim	Title:	Supervisor, Health Facilities						
Special Seismic Certification Valid <mark>Up to</mark> : St	os (g) = <u>See Above</u> z/h =	See Above						
Condition of Approval (if applicable):	DATE: 09/14/2022							
	PRVIA BUILDING CODE							

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s, Inc. DBA GPS Air ( ount 2.5g, z/h=0.0 Max. Horizontal stance Between ttachments (in) 32 36	GPS) Ionization Bars Support Material Thickness (gage) 18 OSP-0 18	Max. Distance for Unsupported Mid- Coil Span (in) 65 63	Max. Weight <sup>1</sup> (lb) 3.5	Unit
ount 2.5g, z/h=0.0 Max. Horizontal stance Between ttachments (in) 32 36	Ionization Bars Support Material Thickness (gage) 18	Unsupported Mid- Coil Span (in) 65	(lb) 3.5	LABORATORIES,LLC
Aax. Horizontal stance Between ttachments (in) 32 36	Support Material Thickness (gage) 18	Unsupported Mid- Coil Span (in) 65	(lb) 3.5	
stance Between ttachments (in) 32 36	Support Material Thickness (gage) 18	Unsupported Mid- Coil Span (in) 65	(lb) 3.5	
36				UUT-01a,b, UUT-02a,b
	OSP-0558	63		
			3.2	UUT-05a,b, UUT-06a,b
	ohammad Karim Power Supplies	1 0		
	timensions (DxWxH) (in)	) 6	Weight (lb)	Unit
	5.0 x 3.5 x 8.0	0	5.0	UUT-03a,b
Contraction of the second	7.5 x 14.0 x 15.0	54.	15.0	UUT-04a,b
AR	5.0 x 4.3 x 9.0		4.6	UUT-07a,b
	6.3 x 13.5 x 15.5		16.4	UUT-08a,b
-	CORVA E	5.0 x 3.5 x 8.0 7.5 x 14.0 x 15.0 5.0 x 4.3 x 9.0 6.3 x 13.5 x 15.5	5.0 x 3.5 x 8.0 7.5 x 14.0 x 15.0 5.0 x 4.3 x 9.0	Dimensions (DxWxH) (in) (lb)   5.0 x 3.5 x 8.0 5.0   7.5 x 14.0 x 15.0 15.0   5.0 x 4.3 x 9.0 4.6   6.3 x 13.5 x 15.5 16.4

#### Special Seismic Certification Table 2 - Certified Subcomponents



DCL Project Number: 13122-2201 Certified Seismic Level: Sds=2.0, z/h=1.0; Sds=2.5, z/h=0

Model	Subcomponent	Manufacturer	Notes	Material of Construction	Weight (lb)	Unit
GPS-iMOD-6-Screw	6-Inch Ionization Bar Sections	GPS	6"L x 0.75"W x 0.75"H	UL94VO Composite	0.3	UUT-01a,b, UUT-02a,
GPS-iMOD-6-Snap	6-Inch Ionization Bar Sections	GPS	6"L x 0.75"W x 0.75"H	UL94VO Composite	0.3	UUT-05a,b, UUT-06a
GPS-iMOD-EC	End Cap	GPS	0.5" diameter	UL94VO Composite	<0.1	UUT-01a,b, UUT-02a UUT-05a,b, UUT-06a
GPS-iDetect-P	Ion Detector Sensor	GPS	1" diameter x 10" long	UL94VO Composite	0.2	UUT-01a,b, UUT-02a UUT-05a,b, UUT-06a
GPS-iMOD-PC-Screw	Power Cable with Connectors	GPS	5500VAC / 2mA	UL94VO Composite	0.3	UUT-01a,b, UUT-02a
GPS-iMOD-PC-Snap	Power Cable with Connectors	GPS	5500VAC / 2mA	UL94VO Composite	0.3	UUT-05a,b, UUT-06a
			24V/0.625A			UUT-03a,b
GPS-iMOD-Steel	Power Supply <sup>1</sup>	GPS	110V/0.14A	Carbon steel	5.0	Interpolated
		FORCOD	208-240V/0.07A			UUT-04a,b
			24V/0.625A			UUT-07a,b
GPS-iMOD-Nylon	Power Supply <sup>1</sup>	GPS	110V/0.14A	Nylon	4.6	Interpolated
	E	OSP-0	208-240V/0.07A	2		UUT-08a,b
AMU1426TF	NEMA Enclosure for Power Supply	Allied Moulded Products, INC.	7.5"D x 14.0"W x 15.0"H	Fiberglass / NEMA 4X	8.0	UUT-04a,b
J1412HPL	NEMA Enclosure for Power Supply		6.3"D x 13.5"W x 15.5"H	Fiberglass / NEMA 4X	9.9	UUT-08a,b

1. Power supplies with different ratings are physically identical; an internal voltage selector switch is employed to change between electrical ratings.



#### Special Seismic Certification Table 3 - Tested Units



DCL Project Number:	13122-2201
Manufacturer:	Global Plasma Solutions, Inc. DBA GPS Air (GPS)
Product Line:	GPS iMOD
Mounting Description:	Rigid / Isolated Wall Mount
Test Levels:	Sds=2.0g, z/h=1.0; Sds=2.5g, z/h=0.0

				Ionization Bars				
Manufacturer Model Number	Manufacturer	Ion Detector Sensor Attached	Support Material Thickness (gage)	Tested Distance Between Attachments (in)	Max. Distance for Unsupported Mid-Coil Span (in)	Tested Weight [ lb ]	Mounting	Unit
GPS-iMOD-6-Screw	GPS	Yes	18	16 and 32	N/A	3.0	Rigid wall	UUT-01a
GPS-iMOD-6-Screw	GPS	Yes	18	16 and 32	N/A	3.0	Isolated wall	UUT-01b
GPS-iMOD-6-Screw	GPS	Yes	18	65	65	3.5	Rigid wall	UUT-02a
GPS-iMOD-6-Screw	GPS	Yes	18	65	65	3.5	Isolated wall	UUT-02b
GPS-iMOD-6-Snap	GPS	Yes	18	18 and 36	N/A	2.4	Rigid wall	UUT-05a
GPS-iMOD-6-Snap	GPS	Yes	18	18 and 36	N/A	2.4	Isolated wall	UUT-05b
GPS-iMOD-6-Snap	GPS	Yes	18	63	63	3.2	Rigid wall	UUT-06a
GPS-iMOD-6-Snap	GPS	Yes	18	63	63	3.2	Isolated wall	UUT-06b
			50	RCODE		*		-

Power Supplies											
Manufacturer Model Number	Manufacturer Dimensions (DxWxH) (in)				Unit						
GPS-iMOD-Steel	GPS	5.0 x 3.5 x 8.0	5.0	Rigid wall	UUT-03a						
GPS-iMOD-Steel	GPS	5.0 x 3.5 x 8.0	5.0	Isolated wall	UUT-03b						
GPS-iMOD-Steel with NEMA enclosure	GPS	OSP <sub>7.5x14.0x15.0</sub>	15.0	Rigid wall	UUT-04a						
GPS-iMOD-Steel with NEMA enclosure	GPS	7.5 x 14.0 x 15.0	15.0	Isolated wall	UUT-04b						
GPS-iMOD-Nylon	GPS	BY: Moham 5.0 x 4.3 x 9.0 arim	4.6	Rigid wall	UUT-07a						
GPS-iMOD-Nylon	GPS	5.0 x 4.3 x 9.0	4.6	Isolated wall	UUT-07b						
GPS-iMOD-Nylon with NEMA enclosure	GPS	DATE: 0963x13.5x15.522	16.4	Rigid wall	UUT-08a						
GPS-iMOD-Nylon with NEMA enclosure	GPS	6.3 x 13.5 x 15.5	16.4	Isolated wall	UUT-08b						



	UNDER TES Summary Sh	•	Т)		((	))	DC	Ľ		
	UUT-01a,	b					DYNA CERTIFIC	ATION		
DCL Project Nu	mber: 13122-2201									
<b>Manufacturer:</b> Glo	obal Plasma Solutions (G	iPS)								
<b>Product Line:</b> GPS i	iMOD									
<b>Model Number:</b> G	PS-iMOD-6-Screw									
Mounting: Rigid /	Isolated Wall Mount									
Product Constructi	on Summary: UL94VO	Composite								
<b>Options / Compone</b> Power cable with co	ent Summary: onnectors, 6-inch ioniza	tion bar secti	ons, end cap,	and ion dete	ector sensor.					
vere mounted to t	olated shake (UUT-01b) he shake table interface o the DCL wall fixture.			r, grade 5 bo )558		•	-			
Operating		Dimension	ns (inches)	ad Kari	~	Lowest Natural Frequency (Hz)				
Weight (lb)	Depth 💛	DTW	dth	Height Front-Back Side-Side V				Vertical		
3.0	2.0		0.0	10000	3.0	N/A N/A		N/A		
I			Seismic Test I	Parameters			1	1		
Building Code	Test Criteria	Sds (g)	z/h		Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)		
CBC 2022	ICC-ES AC156	2.0	1.0 0.0	1.5	3.20	2.40	1.68	1.68		
Figur	e 1. Overall view of UUT	-01a		Figure	2. Overall vie	w of UUT-01b				
G										
		-	Close-up over							
	s operational before an attachment system and		-	-	-	ring the tests.	. The structu	ral integrity		

## UNIT UNDER TEST (UUT) Summary Sheet

### UUT-02a,b

#### DCL Project Number: 13122-2201

*Manufacturer:* Global Plasma Solutions (GPS)

Product Line: GPS iMOD

Model Number: GPS-iMOD-6-Screw

Mounting: Rigid / Isolated Wall Mount

Product Construction Summary: UL94VO Composite

#### **Options / Component Summary:**

Power cable with connectors, 6-inch ionization bar sections, end cap, and ion detector sensor.

#### Unit Mounting Description:

UUT-02a,b was mounted to the DCL wall fixture with (4) #8 self-tapping screws, one per connection, into 18 gage sheet metal. The span between the screws varied from left to right: 3", 65" and 3", respectively. 18 gage sheet metal backed the two 3" spans, but the 65" span was unsupported. For the isolated shake (UUT-02b), the DCL wall fixture was mounted on (4) VMC M2SSH-1E-530N spring isolators. Isolators were mounted to the shake table interface plate with (4) ½" diameter, grade 5 bolts each. Each isolator had a single ¾" diameter, grade 5 bolt to connect to the DCL wall fixture.

	4		UUT Prope	rties				
Operating		Dimensions	(inches)	d Karin		Lowest N	latural Frequ	ency (Hz)
Weight (lb)	Depth	Depth Width		Height		Front-Back	Side-Side	Vertical
3.5	2.0	73	73.0 3.0		N/A	N/A	N/A	
	C	DATSE	ismic Test Pa	rameters	5			
Building Code	Test Criteria	Sds (g)	z/h	Ip	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CDC 2022		2.0	1.0	BBBB		2.40	1.60	1.00
CBC 2022	ICC-ES AC156	2.5	0.0	1.5	1.5 3.20	2.40	1.68	1.68



Figure 1. Overall view of UUT-02a

Figure 2. Overall view of UUT-02b



Figure 3. Close-up overall view of UUT-02a,b

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

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# UNIT UNDER TEST (UUT) Summary Sheet

### UUT-03a,b

#### DCL Project Number: 13122-2201

Manufacturer: Global Plasma Solutions (GPS)

Product Line: GPS iMOD

Model Number: GPS-iMOD-Steel

Mounting: Rigid / Isolated Wall Mount

**Product Construction Summary:** Carbon steel power supply box

ICC-ES AC156

Options / Component Summary: Power Supply

Unit Mounting Description:

CBC 2022

UUT-03a,b was attached to the DCL wall fixture with (4) #8 self-tapping screws, one in each corner. For the isolated shake (UUT-03b), the DCL wall fixture was mounted on (4) VMC M2SSH-1E-530N spring isolators. Isolators were mounted to the shake table interface plate with (4)  $\frac{1}{2}$ " diameter, grade 5 bolts each. Each isolator had a single  $\frac{3}{2}$ " diameter, grade 5 bolt to connect to the DCL wall fixture.

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			UUT Proper	ties	422				
Operating	2	Dimensions (inches) - 0558					Lowest Natural Frequency (Hz		
Weight (lb)	Depth	Wid	th	Heig	ht	Front-Back	Side-Side	Vertical	
5.0	5.0	BY · M	BY Mohammad		d Karir <sup>8,0</sup>		N/A	N/A	
		Se	ismic Test Par	ameters					
Building Code	Test Criter <mark>ia</mark>	Sds (g)	z/h	lp	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)	
		20	- 48/14/	2022	<b>1</b>				

1.5

3.20

2.40

1.68

1.68



Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

# UNIT UNDER TEST (UUT) Summary Sheet

### UUT-04a,b

DCL Project Number: 13122-2201

Manufacturer: Global Plasma Solutions (GPS)

Product Line: GPS iMOD

Model Number: GPS-iMOD-Steel with NEMA enclosure

Mounting: Rigid / Isolated Wall Mount

Product Construction Summary: Carbon steel power supply box and fiberglass / NEMA 4x enclosure

Options / Component Summary: Power supply box and fiberglass / NEMA 4x enclosure

Unit Mounting Description:

UUT-04a,b was attached to the DCL wall fixture with (4) ¼" diameter, Grade 5, bolts with channel nuts, one per each corner, slotted into 12 gage unistrut. For the isolated shake (UUT-04b), the DCL wall fixture was mounted on (4) VMC M2SSH-1E-530N spring isolators. Isolators were mounted to the shake table interface plate with (4) ½" diameter, Grade 5, bolts each. Each isolator had a single ¾" diameter, Grade 5, bolts each. Each isolator had a single ¾" diameter, grade 5 bolts to connect to the DCL wall fixture. Isolators were mounted to the shake table interface plate with (4) ½" diameter, grade 5 bolts each. Each isolator had a single ¾" diameter, grade 5 bolts each. Each isolator had a single ¾" diameter, grade 5 bolts each. Each isolator had a single ¾" diameter, grade 5 bolts to connect to the DCL wall fixture.

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4		OSP-C	)558										
R R	Dimensions		perues		Lowest N	latural Frequ	ency (Hz)						
Depth			ad Karije	ight									
7.5					N/A	N/A	N/A						
Seismic Test Parameters													
Test Criteria	Sds (g)	z/h	Ip	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)						
	2.0	1.0			2.40	1.69	1.69						
ICC-ES ACIS6	2.5	0.0	1.5	3.20	2.40	1.68	1.68						
in the set litter of a							D18 14 42						
view of UUT-04a	Figure 2. Over	all view of U	JUT-04b	Figure 3	. Close up ove	rall view of U	UT-04a,b						
	0	DepthWid7.514.7.514.StateSds (g)ICC-ES AC1562.02.52.5	Dimensions (inches) Depth 7.5 14.0 Seismic Test ( Test Criteria ICC-ES AC156 2.0 2.5 0.0 COLES AC156 COLES AC15	DepthWidthA He7.514.01Seismic Test ParametersTest CriteriaSds (g)z/hIpICC-ES AC1562.01.01.52.50.01.50.0	Dimensions (inches)DepthWidth and Ka Height7.514.015.0Seismic Test ParametersTest CriteriaSds (g)z/hIpAflx-H (g)1CC-ES AC1562.01.01.53.202.50.01.53.20	Dimensions (inches)Lowest NDepthWidthFront-Back7.514.015.0N/ASeismic Test ParametersTest CriteriaSds (g)z/hIpAfix-H (g)Arig-H (g)ICC-ES AC1562.01.01.53.202.40ICC-ES AC1562.50.01.53.202.40	Dimensions (inches)Lowest Natural FrequDepthWidthHeightFront-BackSide-Side7.514.015.0N/AN/ASeismic Test ParametersTest CriteriaSds (g)Z/hIpAflx-H (g)Aflg-H (g)Aflx-V (g)ICC-ES AC1562.01.01.53.202.401.68ICC-ES AC1562.50.01.53.202.401.68						

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

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	UUT-05a	,b					DYNA CERTIFIC LABORATOR	ATION
DCL Project Nu	mber: 13122-2201							
<b>Manufacturer:</b> Gl	obal Plasma Solutions (	GPS)						
<b>Product Line:</b> GPS	iMOD							
Model Number: 🤆	SPS-iMOD-6-Snap							
Mounting: Rigid /	Isolated Wall Mount							
Product Constructi	ion Summary: UL94VO	Composite						
<b>Options / Compon</b> Power cable with c	ent Summary: connectors, 6-inch ioniza	ation bar sectio	ns, end cap, a	nd ion deteo	ctor sensor.			
o connect to the D	ake table interface plate		OSP-0 UUT Prop	558	n. Each Isolato			
Operating	Dimensions (inches)			ad Karir	n de c		Natural Frequ	1
Weight (lb)	Depth	<b>Wi</b>			eight	Front-Back	Side-Side	Vertical
2.4	1.0	61	5 Seismic Test P	1 10 0 0 0	3.0	N/A	N/A	N/A
Building Code	Test Criteria	Sds (g)	z/h	lp	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g
CBC 2022	ICC-ES AC156	2.0	1.0 0.0	1.5	3.20	2.40	1.68	1.68
	igure 1. Overall view of	UUT-05a		Figure	2. Overall view	w of UUT-05b		Io,
		Figure 3. C	lose-up overa	ll view of UL	JT-05a,b		Dimensio Test Date Mounting	
	as operational before an attachment system and	nd after shakin	g and was ful	l of operatir	ng content dur	ing the tests.	The structur	al integrity



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	IT UNDER TES	1 (UUI)				nr	
	Summary Sh	leet			))	しし	
	-					DYNA	
	UUT-07a,	b			_	ABORATOR	
DCL Project N	lumbor 12122 2201						
	lumber: 13122-2201 Global Plasma Solutions (Gl	DC)					
Product Line: GF		PS)					
	GPS-iMOD-Nylon						
	/ Isolated Wall Mount						
	ction Summary: Nylon						
	onent Summary: Power Su	nnly					
Unit Mounting D	•	рріу					
		102 90	)E				
	ittached to the DCL wall fixt			A			
	ure was mounted on (4) VN						
with (4) ½'' diam	eter, grade 5 bolts each. Ea	ch isolator had a single ¾"	diameter, gra	ade 5 bolt to c	onnect to the	DCL wall fixt	ure.
	<u>L</u>			Ý.			
		UUT Prop	erties				
Operating	A A	Dimensions (inches) -	558			latural Frequ	
Weight (lb)	Depth	Width		ight	Front-Back	Side-Side	Vertical
4.6	5.0	BY: Mohamm	au nann	.0	N/A	N/A	N/A
	Toot Critoria	Seismic Test P					
Building Code	Test Criteria	Sds (g) z/h 2.0 1.0	4/2022	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC 2022	ICC-ES AC156	1997 	1.5	3.20	2.40	1.68	1.68
		2.5 0.0		BY 22			
1A							
-long							
						олн — 2	35-
				110	G	DC.	
					Engineering Air	for a Cleaner World	
Hill Mark					MODEL#	GPS-IMOD	
					SN 2101	06 000588	- 1111
					Global Plasm 3101 Yorkmor Charlotte, NC	1t Rd, Suite 400	
					GlobalPlasma	ASolutions.com	
					HIGH VOLTAGE SI	HOCK HAZARDI O C HAUTE TENSIONI   D DE DESCARGADE	
					DISCONNECT BE	FORE SERVICING	
				1000	24VAC / .5A / 5 120VAC / .12A 208-240VAC / . Power: 15 Wat	0-60Hz / 50-60Hz .065A / 50-60Hz	
ALC N		a caller a	AT.T.		Power: 15 Wat		
Figure 1. Overall	view of UUT-07a	Figure 2. Overall view of U	UT-07b	Figure 3.	Close up ove	rall view of U	UT-07a.b
-	was operational before and	•		-	-		
		force-resisting systems wa	-	-			

## UNIT UNDER TEST (UUT) Summary Sheet

### UUT-08a,b

DCL Project Number: 13122-2201

Manufacturer: Global Plasma Solutions (GPS)

Product Line: GPS iMOD

Model Number: GPS-iMOD-Nylon with NEMA

Mounting: Rigid / Isolated Wall Mount

Product Construction Summary: Nylon power supply box and fiberglass / NEMA 4x enclosure

Options / Component Summary: Power supply box and fiberglass / NEMA 4x enclosure

Unit Mounting Description:

UUT-08a,b was attached to the DCL wall fixture with (4) ¼" diameter, grade 5 bolts with channel nuts, one on each corner, slotted into 12 gage unistruts. For the isolated shake (UUT-08b), the DCL wall fixture was mounted on (4) VMC M2SSH-1E-530N spring isolators. Isolators were mounted to the shake table interface plate with (4) ½" diameter, grade 5 bolts each. Each isolator had a single ¾" diameter, grade 5 bolt to connect to the DCL wall fixture.

DYNAMIC CERTIFICATION

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			UUT Prop	erties					
Operating Weight (lb)	Dimensions (inches) - 0558					Lowest Natural Frequency (Hz)			
	(lb) Depth V		lth	Height		Front-Back	Side-Side	Vertical	
16.4	6.3	BV · 13	BY 135 hammad Kari 15,5		.5	N/A	N/A	N/A	
		s s	eismic Test P	arameters					
Building Code	Test Criter <mark>ia</mark>	Sds (g)	z/h	lp	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)	

Building Code	rest citteria	Jus (g)		4/2022		Ang-n (g)	Ally-v (g)	Alig-V (g)
CBC 2022	ICC-ES AC156	2.0	1.0	4/2022	3.20	2.40	1.68	1.68
		2.5	0.0					



Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.