

# OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC	OFFICE USE ONLY				
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #: OSP-0702				
OSHPD Special Seismic Certification Preapproval (OSP)					
Type: X New Renewal					
Manufacturer Information					
Manufacturer: Philips Medical Systems DMC GmbH					
Manufacturer's Technical Representative: Ming Xiao					
Mailing Address: Roentgenstrasse 24, Hamburg, Ha 22335					
Telephone: (94034) 971-2306 Email: Ming.Xiao@Philip	s.com				
FORCODECON					
Product Information	D				
Product Name: Fluoroscopy and Radiography Systems	Z.				
Product Type: NA OSP-0702	1 CF				
Product Model Number: CombiDiagnost R90					
General Description: Multiple component digital radiography and fluorosc	opy medical diagnostic imaging system.				
Mounting Description: Rigid, See Certified Product Tables					
Tested Seismic Enhancements: Seismic enhancements made to the test anomalies during the tests shall be incorp	units and/or modifications required to address porated into the production units.				
Applicant Information	2				
Applicant Company Name: WE Gundy & Associates, Inc	DE				
Contact Person: Travis Soppe					
Mailing Address: PO Box 9121, Boise, ID 83707					
Telephone:   (208) 342-5989   Email:   tsoppe@wegai.co	bm				

Title: President

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

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

OSHPD



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

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
Company Name: W.E. GUNDY & ASOCIATES INC.
Name: Travis Soppe California License Number: S6115
Mailing Address: P.O. Box 9121, Boise, ID 83707
Telephone: (208) 342-5989 Email: tsoppe@wegai.com
Certification Method
GR-63-Core X ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3
Other (Please Specify):
EDR CODE CO.
Testing Laboratory
Company Name: IABG TEST LABORATORY
Contact Person: Florian Bösl
Mailing Address: Einsteinstrasse 20, Ottobrunn Barvaria 85521
Telephone: (4034) 971-1821Email: _boesl@iabg.de
DATE: 08/24/2021
C A A A A A A A A A A A A A A A A A A A
FILEORNIA BUILDING CODE 200
ABUILDING

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Seismic Parameters									
Design Basis of Equipment or Component	s (Fp/Wp) = See Attachments								
SDS (Design spectral response acce	leration at short period, g) = $2.0$ at z / l	h = 1.0 and	d 2.5 at z / h = 0						
ap (Amplification factor) =	ap (Amplification factor) = See attachments								
R <sub>P</sub> (Response modification factor) =	R <sub>P</sub> (Response modification factor) = See attachments								
$\Omega_0$ (System overstrength factor) =									
lp (Importance factor) =	1.5								
z/h (Height ratio factor) =	1 and 0								
Natural frequencies (Hz) =	See Attachment								
Overall dimensions and weight =	See Attachment CODE								
	ED FORTE COMS								
	UN OCHDO	12							
OSHPD Approval (For Office Use Onl	y) - Approval Expires on 12/31/20	252							
Date: 8/24/2021	OSP-0702	(m)							
Name: Mohammad Karim		Title:	Supervisor, Health Facilities						
Special Seismic Certification Valid Up to: S	SDS (g) = See Above	z/h =	See Above						
Condition of Approval (if applicable):	DATE: 08/24/2021								
		0							
	RIA BUILDING CODE	201							
	OP.								
	ORNIA BUILDING CODE								

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#### Table 1

#### PHILIPS MEDICAL SYSTEMS DMC GmbH SPECIAL SEISMIC CERTIFICATION **CERTIFIED SYSTEM AND COMPONENTS**



System: CombiDiagnost R90		ufacture	r: Philips	l Systems DMC GmbH							
Philips	Din	nensions	(in)	Weight	Mounting	UUT					
Part Number	Width	Depth	Height	(lb)	Withunting						
Geometry Stand											
9890-010-70151	93.9	80.4	109.2	2976 <sup>2</sup>	floor	UUT-6A					
9890-010-70151	153.3	80.4	140.7	2976	floor	UUT-6B					
Generator Cabinets											
4512-202-03621	21.7	20.5	77.0	420	floor/wall	UUT-11					
9890-000-70307	21.7	20.5	77.0	745	floor/wall	UUT-12					
4512-202-03591	0521.70	7020.5	77.0	485	floor/wall	UUT-13					
Touch Screen Console and M-Shield											
4512-134-69652	08/4294/2	2014.0	4.3	12	floor	UUT-10					
4512-133-65532	9.1	6.0	1.8	1	wall	UUT-3					
	Philips     Part Number     Ge     9890-010-70151     9890-010-70151     9890-010-70151     9890-010-70151     9890-010-70151     9890-010-70151     9890-010-70151     9890-010-70151     1     9890-010-70151     1     9890-000-70307     4512-202-03591     1	Philips Part Number     Din Width       9890-010-70151     93.9       9890-010-70151     93.9       9890-010-70151     153.3       9890-000-70307     21.7       4512-202-03621     21.7       4512-202-03591     21.7       4512-202-03591     21.7       4512-202-03591     21.7	Philips Part Number     Dimensions Width       9890-010-70151     93.9     80.4       9890-010-70151     153.3     80.4       9890-010-70151     153.3     80.4       9890-010-70151     153.3     80.4       9890-010-70151     153.3     80.4       9890-010-70151     153.3     80.4       4512-202-03621     21.7     20.5       4512-202-03591     21.7     20.5       4512-202-03591     21.7     20.5       4512-202-03591     21.7     20.5       4512-202-03591     21.7     20.5       4512-134-69652     14.04     14.0	Philips Part Number     Dimensions (in)       Width     Depth     Height       Geometry     Stand     109.2       9890-010-70151     93.9     80.4     109.2       9890-010-70151     153.3     80.4     140.7       9890-010-70151     153.3     80.4     140.7       9890-010-70151     21.7     20.5     77.0       4512-202-03621     21.7     20.5     77.0       4512-202-03591     21.7     20.5     77.0       4512-202-03591     21.7     20.5     77.0       4512-202-03591     21.7     20.5     77.0       4512-134-69652     14.0     4.3     4.3	Philips Part Number     Dimensions (in) Width     Weight Depth     Weight (lb)       9890-010-70151     93.9     80.4     109.2     2976 <sup>2</sup> 9890-010-70151     93.9     80.4     140.7     2976       9890-010-70151     153.3     80.4     140.7     2976       4512-202-03621     21.7     20.5     77.0     420       9890-000-70307     21.7     20.5     77.0     420       4512-202-03591     21.7     20.5     77.0     485       Touch Screen Console and Haus     4451     140.7     12	Philips Part Number     Dimensions (in) Width     Weight Depth     Mounting (lb)       9890-010-70151     93.9     80.4     109.2     2976 <sup>2</sup> floor       9890-010-70151     93.9     80.4     140.7     2976     floor       9890-010-70151     153.3     80.4     140.7     2976     floor       Generator Cabinets       4512-202-03621     21.7     20.5     77.0     420     floor/wall       9890-000-70307     21.7     20.5     77.0     485     floor/wall       4512-202-03591     21.7     20.5     77.0     485     floor/wall       4512-134-69652     014.04     014.0     4.3     12     floor					

Notes: <sup>1</sup> All components are manufactured by Philips Medical Systems DMC GmbH unless noted in ( ). The part numbers listed uniquely identify the type of component, manufacturer, and material of construction for each sub-component within the tested units. <sup>2</sup>Geometry stand weight does not include simulated patient weight used for test on UUT-6A. See UUT summary sheet for simulated patient weight.

SEISMIC CERTIFICATION LIMITS										
System Component	Code	S <sub>DS</sub> (g)	z / h	Ip	a <sub>P</sub>	R <sub>P</sub>	Ω <sub>0</sub>	$\mathbf{F}_{\mathbf{P}}$ / $\mathbf{W}_{\mathbf{P}}$		
Geometry Stand	CBC	2.0	1.0	1.50	1.0	1.5	1.5	2.40		
	2019	2.5	0	1.30				1.13		
Generator Cabinets	CBC	2.0	1.0	1.50	2.5	6.0	2.0	1.50		
	2019	2.5	0					1.13		
Geo Touch Screen Console	CBC	2.0	1.0	1.50	1.0	2.5	2.0	1.44		
	2019	2.5	0	1.50	0 1.0			1.13		
M-Shield	CBC	2.0	1.0	1.50	1.0	2.5	2.0	1.44		
	2019	2.5	0	1.30	1.0			1.13		

UUT-6A

## UNIT UNDER TEST (UUT) SUMMARY SHEET



#### **Mounting Details:** Floor mount with $8 - \frac{3}{4}$ inch grade 8 bolts with washers.

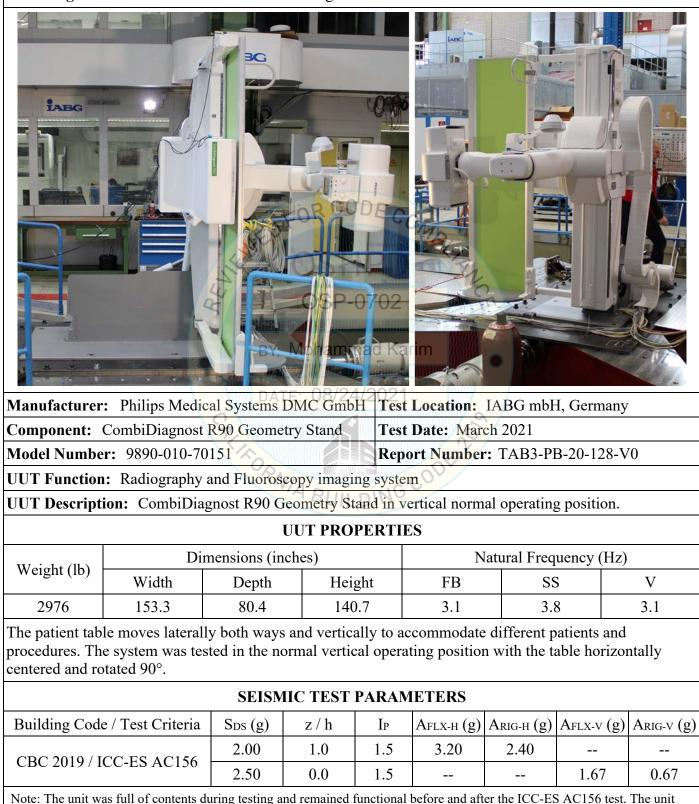
Mounting Det	ans: Floor moul	11  with  6 - 7	4 men grau		with washe	15.				
Manufacturer:   Philips Medical Systems DMC GmbH   Test Location:   LABG mbH, Germany										
	CombiDiagnost	0		1	Date: Sept		-			
-	er: 9890-010-70		iry Stallo		ort Number			<u></u>		
	Radiography		ima gi	-		• IAD3-F	D-20-126- v	0		
	ion: CombiDiag	4				rmal an area	ting position	-		
UUT Descript						mai opera	ling position	1.		
			UUT PRO	PERTI						
Weight (lb)		nensions (in					uency (Hz)			
_ 、 /	Width	Depth	Hei	-	FB	SS		V		
2976	93.9	80.4	109		3.2	3.		3.5		
procedures. Th	le moves laterall e system was tes t of 32.9", and a t	ted in the no	ormal opera	ating pos	sition with th			ntered, a		
		SEISM	IC TEST	PARAN	<b>IETERS</b>					
Building Code	e / Test Criteria	S <sub>DS</sub> (g)	z / h	IP	AFLX-H (g)	Arig-h (g)	AFLX-V (g)	Arig-v (g)		
CDC 2010 / I		2.00	1.0	1.5	3.20	2.40				
СВС 2019 / 1	CBC 2019 / ICC-ES AC156 2.50 0.0 1.5 1.67 0.67									
	as full of contents du ural integrity during				before and aft	er the ICC-ES	S AC156 test.	The unit		

UUT-6B

## UNIT UNDER TEST (UUT) SUMMARY SHEET



**Mounting Details:** Floor mount with  $8 - \frac{3}{4}$  inch grade 8 bolts with washers.

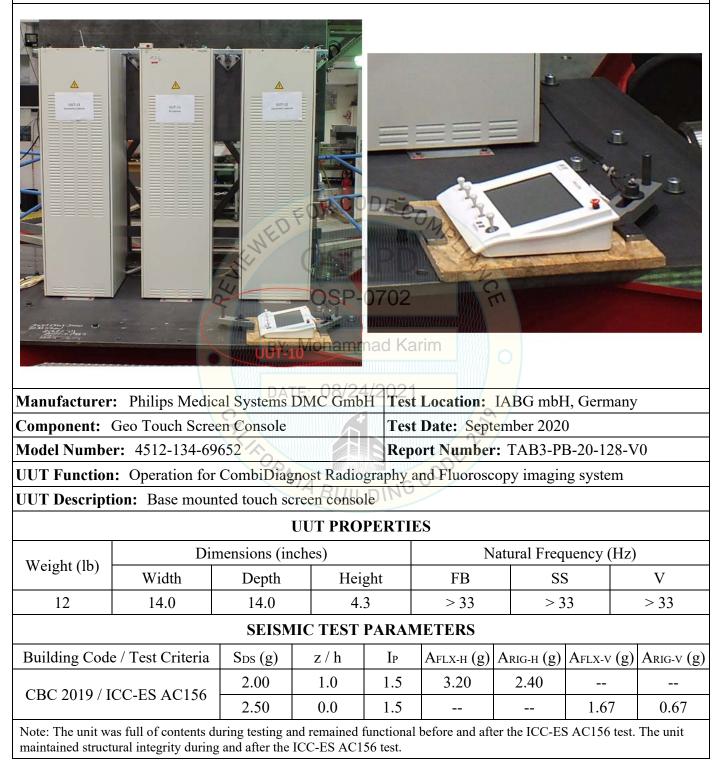


maintained structural integrity during and after the ICC-ES AC156 test.

### UNIT UNDER TEST (UUT) SUMMARY SHEET



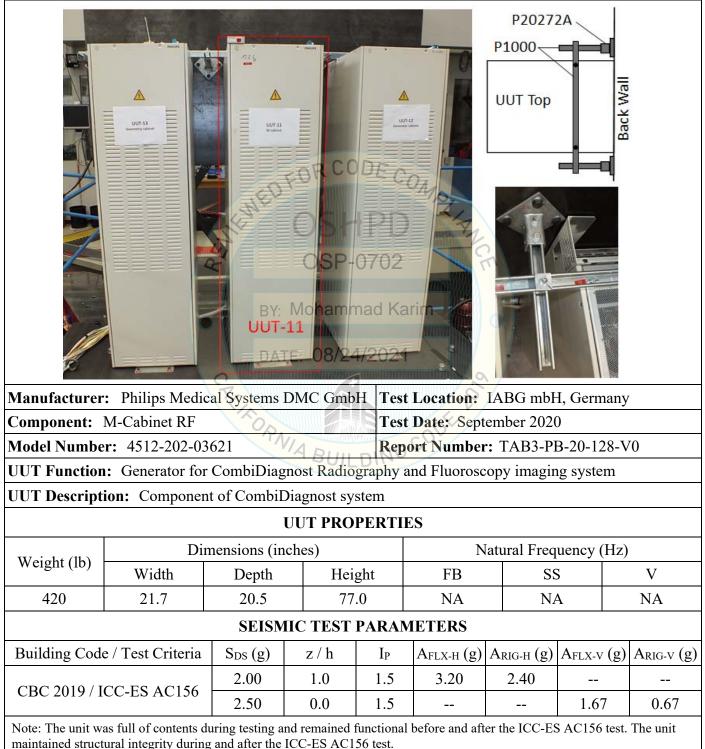
#### **Mounting Details:** Floor mount with 3 – M5 grade 8 bolts.



### UNIT UNDER TEST (UUT) SUMMARY SHEET



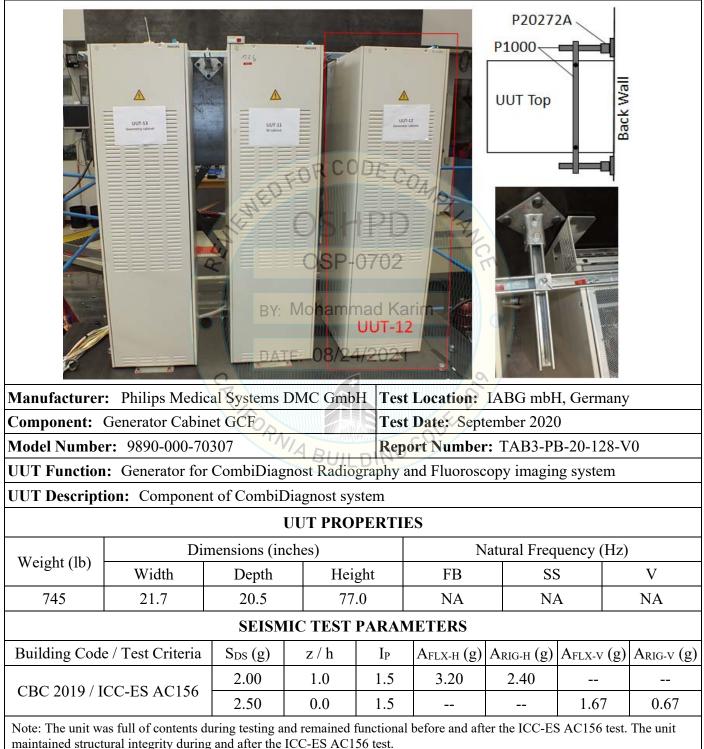
Combined floor, wall, top restraint. Floor restrained in the front with 2 - 3/8" grade 8 Mounting Details: bolts / washers, wall restrained in the rear with 4 - 1/4" grade 8 bolts / washers, and top restrained with 2 - M8 grade 8 bolts to a Unistrut top support (see detail below).



### UNIT UNDER TEST (UUT) SUMMARY SHEET



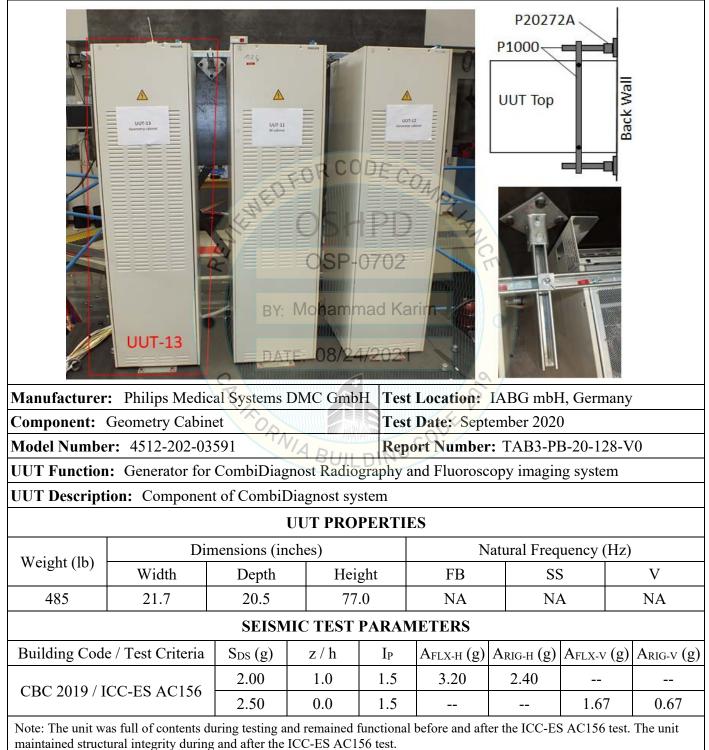
**Mounting Details:** Combined floor, wall, top restraint. Floor restrained in the front with 2 - 3/8" grade 8 bolts / washers, wall restrained in the rear with 4 - 1/4" grade 8 bolts / washers, and top restrained with 2 - M8 grade 8 bolts to a Unistrut top support (see detail below).



#### UNIT UNDER TEST (UUT) SUMMARY SHEET



Combined floor, wall, top restraint. Floor restrained in the front with 2 - 3/8" grade 8 Mounting Details: bolts / washers, wall restrained in the rear with 4 - 1/4" grade 8 bolts / washers, and top restrained with 2 - M8 grade 8 bolts to a Unistrut top support (see detail below).



## UNIT UNDER TEST (UUT) SUMMARY SHEET



#### **Mounting Details:** Wall mounted with 4 – M3 grade 5 screws.

Manufacturer:   AXIOMTEC									
Component: Model Numbe	M-Shield er: 4512-133-65:	532			t Date: Mar oort Number	1	B_20_128_	VO	
	<b>:</b> Firewall hardy	0					<u> </u>		
	ion: Component		Radiogra	phy and H	luoroscopy	imaging sys	stems		
				OPERTI					
<b></b>	Din	nensions (in	ches)		Natural Frequency (Hz)				
Weight (lb)	Width	Depth	-	eight	FB	SS		V	
1	9.1	6.0		1.8	NA	Nz	4	NA	
		SEISM	IIC TES	<b>F PARA</b>	METERS				
Building Code	e / Test Criteria	S <sub>DS</sub> (g)	z / h	Ip	Aflx-H (g)	Arig-H (g)	AFLX-V (g	) Arig-v (g)	
		2.00	1.0	1.5	3.20	2.40			
СВС 2019/1	CC-ES AC156	2.50	0.0	1.5			1.67	0.67	
	as full of contents du cural integrity during				l before and aft	ter the ICC-ES	S AC156 tes	t. The unit	