

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

OFFICE USE ONLY APPLICATION FOR HCAI SPECIAL SEISMIC **CERTIFICATION PREAPPROVAL (OSP) APPLICATION #: OSP-0359 HCAI Special Seismic Certification Preapproval (OSP)** Type: New Renewal **Manufacturer Information** Manufacturer: OTIS ELEVATOR COMPANY Manufacturer's Technical Representative: John Kleine Mailing Address: 1500 OTIS Way, Florence, SC 29501 Telephone: (843) 432-4134 Email: john.kleine@otis.com **Product Information** Product Name: Elevator Equipment Product Type: Elevator Controllers Product Model Number: HydroFit & HydroAccel GCS Hydraulic Control System General Description: Components for elevator cab control and propulsion. 3 Phase 208V to 600V, 18A to 121A. (See Attachment 1, Table 1) Mounting Description: Hydraulic Machine - Rigid Base Mounted., GCSHH Controllers - Equipment Wall Mounted & Rigid Wall Mounted. See Attachments 1 & 2. Tested Seismic Enhancements: None **Applicant Information** Applicant Company Name: EASE LLC Contact Person: Jonathan Roberson Mailing Address: 5877 Pine Ave Suite 210, Chino Hills, CA 91709 Telephone: (909) 606-7622 Email: j.roberson@easeco.com





Title: Principal Engineer

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California Licensed Structural Engineer Respon	sible for the Engineering and Test Report(s)						
Company Name: EASE LLC							
Name: Jonathan Roberson California License Number: S4197							
Mailing Address: 5877 Pine Ave., Suite 210, Chino Hills,	, CA 91709						
Telephone: (951) 295-1892							
Certification Method							
GR-63-Core X ICC-ES AC156	☐ IEEE 344 ☐ IEEE 693 ☐ NEBS 3						
Other (Please Specify):							
EOF	CODECO						
Testing Laboratory	Mp.						
Company Name: ENVIRONMENTAL TESTING LABORA	ATORIES, INC. (ETL)						
Contact Person: Brady Richard	7						
Mailing Address: 11034 Indian Trail, Dallas TX 75229-35	513 Table 1						
Telephone: (972) 247-9657	il:_brady@etldallas.com						
DATE:	: 10/06/2022						
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Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = 0.936 (Sds = 1.30 @ z/h = 1) & 1.125 (Sds = 2.50 @ z/h = 0)

SDS (Design spectral response acceleration at short period, g) = 1.30 (z/h = 1) & 2.50 (z/h = 0)

ap (Amplification factor) = 1

 R_p (Response modification factor) = 2.5

 Ω_0 (System overstrength factor) = 2.0

 I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 1 and 0

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

HCAI Approval (For Office Use Only) Approval Expires on 10/06/2028

Date: 10/6/2022 OSP-0359

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: Sps (g) = See Above z/h = See Above

Condition of Approval (if applicable): DATE 10/06/2022





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ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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TABLE 1: SEISMIC CERTIFIED SYSTEMS & COMPONENTS

MANUFACTURER	OTIS ELEVATOR COMPANY								
SYSTEM	HYDROFIT™/ HY	DROACCEL GCS	HYDRAULI	C CONTROL	SYSTEM				
			DI	MENSIONS (II	N.)	MAX WT			
SYSTEM COMPO	DNENT	MODEL NO.	W	D	Н	(LB.)		MOUNT	BASIS [1]
TANK & CONTRO	LLER ASSEMBLY (A	-A203390H)							
Hydraulic Machir – 80 Gallon Tank		AAA20390AF	42.25	19.12	40.50	403 (dry) / 993 (full)	[3]	Rigid Base	UUT1
Hydraulic Machir – 100 Gallon Ta		AAA20390AA	44	23.12	40.5	1445 (full)	[3]	Rigid Base	INT
Hydraulic Machir – 140 Gallon Ta		AAD20390Q	46	29.25	40.5	1768 (full)	[3]	Rigid Base	INT
Hydraulic Machine – 190 Gallon Tank Assembly		AAD20390P	R GOD	E 29.37	48.15	715 (dry) / 2086 (full)	[3]	Rigid Base	UUT2
GCSHH Controller		AAA21242E3	37.1	11.36	36	147		Tank	UUT1 UUT2
GCS CONTROLLE	R								
GCSHH Controller		AAA21242E3	OS _{7.1} -0	35Q _{1.36}	36 🖳	147		Wall	UUT1B UUT2B UUTA1 UUTA2
MOUNTING	RIGID BASE (FLOOI and no lateral support WALL: unit is mounte TANK: unit is mounte	t above the base. ed to and fully suppor	ted by a build	ng wall or part	ition.		ed to	a supporting	structure
NOTES	INT (Interp is establi Hydraulic Mach Hydraulic Mach Hydraulic Mach	cates that a specime olated or Extrapolate shed through evalua nine is also referred t nine weights exclude plies to components	ed): indicates a tion of testing o as Hydraulic weight of tank	model that wa of other, simila Power Unit -mounted GC	as not specifica ar models in the SHH controller.	illy tested, and be product line.	,		

TABLE 2: SEISMIC CERTIFIED SUBCOMPONENTS: HYDRAULIC MACHINE

SUBCOMPONENT MANUFACTURER		PART No.	DESCRIPTION/RATING	BASIS
TANKS		•	·	•
AA_20390AF				
Power Unit Tank	Otis	AAA148AQ5	80 Gallon HydroFit™/Hydro Accel Tank	UUT1
Power Unit Tank Lid	Otis	AAA285SK4	80 Gallon HydroFit™/Hydro Accel Tank	UUT1
AA_20390Q				
Power Unit Tank	Otis	AAA148AQ6	140 Gallon HydroFit™/Hydro Accel Tank	INT
Power Unit Tank Lid	Otis	AAA285SK5	140 Gallon HydroFit™/Hydro Accel Tank	INT
AA_20390AA				
Power Unit Tank	Otis	AAA148AQ8	100 Gallon HydroFit™/Hydro Accel Tank	INT
Power Unit Tank Lid	Otis	AAA285SK7	100 Gallon HydroFit™/Hydro Accel Tank	INT
AA_20390P				
Power Unit Tank	Otis	AAA148AQ7	190 Gallon HydroFit™/Hydro Accel Tank	UUT2
Power Unit Tank Lid	Otis	AAA285SK6	190 Gallon HydroFit™/Hydro Accel Tank	UUT2

Table continues next page



ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

ATTACHMENT PAGE | 2 OF 3

TABLE 2: SEISMIC CERTIFIED SUBCOMPONENTS: HYDRAULIC MACHINE

SUBCOMPONENT	MANUFACTURER	PART No.	DESCRIPTION/RATING	BASIS	
CONTROL VALVES		•		•	
Control Valve	MaXton MFG	271AP11	Pressure: 50 - 800 psi; Flow: 20-80gpm; 56gpm (factory set)	UUT1	
Control Valve	MaXton MFG	271AP12	Pressure: 50 - 800 psi; Flow: 20-185gpm; 75-94gpm (factory set)	INT	
Control Valve	MaXton MFG	271AP13	Pressure: 50 - 800 psi; Flow: 20-185gpm; 120-180gpm (factory set)	INT	
Control Valve	MaXton MFG	AAA271DL13	Pressure: 50 - 800 psi; Flow: 20-185gpm; 56gpm (factory set)	INT	
Control Valve	MaXton MFG	AAA271DL14	Pressure: 50 - 800 psi; Flow: 20-185gpm; 75-94gpm (factory set)	INT	
Control Valve	MaXton MFG	AAA271DL15	Pressure: 50 - 800 psi; Flow: 20-185gpm; 120-180gpm (factory set)	INT	
Control Valve	MaXton MFG	271AL2	Pressure: 50 - 595 psi; Flow: 85 - 360 gpm	UUT2	
SUBMERSIBLE MOTORS					
AC Submersible Motor	NIDEC (US Motor)	6333DD21	HP: 15HP; Volt: 230/460v	UUT1	
AC Submersible Motor	NIDEC (US Motor)	6333DD22	HP: 20HP; Volt: 230/460v	INT	
AC Submersible Motor	NIDEC (US Motor)	6333DD23	HP: 25HP; Volt: 230/460v	INT	
AC Submersible Motor	NIDEC (US Motor)	6333DD24 D_	HP; 30HP; Volt: 230/460v	INT	
AC Submersible Motor	NIDEC (US Motor)	6333DD25	HP: 40HP; Volt: 230/460v	INT	
AC Submersible Motor	NIDEC (US Motor)	6333DD27	HP: 50HP; Volt: 230/460v	INT	
AC Submersible Motor	NIDEC (US Motor)	AAA6333ER5	HP: 50HP; Volt: 230/460v	UUT2	
SUBMERSIBLE PUMP					
Pump	Allweiler	6962Y26 4 0 /O	Pressure: 450 psi; Flow Rate: 59	UUT1	
Pump	Allweiler	6962Y27	Pressure: 450 psi; Flow Rate: 76	INT	
Pump	Allweiler	6962Y21	Pressure: 450 psi; Flow Rate: 94	INT	
Pump	Allweiler	6962Y22	Pressure: 450 psi; Flow Rate: 117	INT	
Pump	Allweiler	6962Y23	Pressure: 450 psi; Flow Rate: 137	INT	
Pump	Allweiler	6962Y25	Pressure: 450 psi; Flow Rate: 177	INT	
Pump	Allweiler	6962AE3	Pressure: 250 psi; Flow Rate: 201	INT	
Pump	Allweiler	6962AE4	Pressure: 250 psi; Flow Rate: 256	UUT2	
MUFFLER	•			•	
Muffler	Otis	AAA726D1		UUT1 / UUT2	
PRESSURE SWITCH	•	•		•	
Low Pressure Switch	GEM Sensor & Controls	AAA20300L2	Pressure: Actuation: 75 psi, Working Pressure: 1000 psi, Electrical: 120V @ 6 Amps	UUT1 / UUT2	
Notes	 BASIS: UUT#: Indicates that a test specimen matching these characteristics was tested as part of this testing program. INT (Interpolate/Extrapolate): indicates a model that was not specifically tested, and by which seismic certification is established through evaluation of testing of other, similar models in the product line. Seismic qualification is limited subcomponents installed as part of a complete assembly of the equipment defined in Table 1. Table excludes all Electrical Controllers, Switches, Transformers, Circuit Breakers and Fuses up to 10 lbs. or 10 amperes, except as noted. 				

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ATTACHMENT 1: SEISMIC CERTIFIED COMPONENTS

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TABLE 3: SEISMIC CÉRTIFIED SUBCOMPONENTS: CONTROLLER

SUBCOMPONENT	MANUFACTURER	PART No.	DESCRIPTION/RATING	BASIS	
TRANSFORMER					
Controller Power Distribution Transformer	Grand Transformer (OTIS Design Part)	AAA225JT21	Volt: 440-480v; Front Only; AT400 Door Operator Winding: Copper, Core: Open, Rating: 152VA	UUT1 / UUT1B UUT2 / UUT2B	
Controller Power Distribution Transformer	Grand Transformer (OTIS Design Part)	AAA225JT20	Volt: 208-240v; Front Only; AT400 Door Operator Winding: Copper, Core: Open, Rating: 152VA	INT	
Controller Power Distribution Transformer	Grand Transformer (OTIS Design Part)	AAA225JT23	Volt: 208-240v; Front & Rear; AT400 Door Operator Winding: Copper, Core: Open, Rating: 250VA	INT	
Controller Power Distribution Transformer	Grand Transformer (OTIS Design Part)	AAA225JT24	Volt: 440-480v; Front & Rear; AT400 Door Operator Winding: Copper, Core: Open, Rating: 250VA	INT	
Controller Power Distribution Transformer	Grand Transformer (OTIS Design Part)	AAA225JT27	Volt: 440-480v; Front Only; NGAOK Door Operator Winding: Copper, Core: Open, Rating: 100VA	INT	
Controller Power Distribution Transformer	Grand Transformer (OTIS Design Part)	AAA225JT29	Volt: 208-240v; Front & Rear; NGAOK Door Operator Winding: Copper, Core: Open, Rating: 200VA	INT	
Controller Power Distribution Transformer	Grand Transformer (OTIS Design Part)	AAA225JT32	Volt: 208 -240v; Front & Rear; NGAOK Door Operator Winding: Copper, Core: Open, Rating: 918	INT	
Controller Power Distribution Transformer	Grand Transformer (OTIS Design Part)	AAA225JT33	Volt: 440-480v; Front & Rear; NGAOK Door Operator Winding: Copper, Core: Open, Rating: 918	INT	
Controller Power Distribution Transformer	Grand Transformer (OTIS Design Part)	AAA225JT35	Volt: 208-240 & 440-480v; Front & Rear; MOD Winding: Copper, Core: Open, Rating: 1302	INT	
Controller Power Distribution Transformer	Grand Transformer (OTIS Design Part)	AAA225JT30	Volt: 440-480v; Front & Rear; NGAOK Door Operator Winding: Copper, Core: Open, Rating: 200VA	UUTA1 / UUTA2	
MOTOR STARTER					
AC Semiconductor Motor Starter	Siemens	AAA21240AD5	Amps: 17-68 Amps; HP: 15-50HP; Volt: 208-480v	UUT1 / UUT1B UUT2 / UUT2B	
AC Semiconductor Motor Starter	Siemens	AAA21240AD7	Amps: 26 - 105 Amps; HP: 30-75HP; Volt: 208-480v	INT	
AC Semiconductor Motor Starter	Siemens	AAA21240AD8	Amps: 32 - 130 Amps; HP: 40-100HP; Volt: 208-480v	INT	
AC Semiconductor Motor Starter	Siemens	AAA21240AD9	Amps: 39 - 156 Amps; HP: 50 - 125HP; Volt: 208- 480v	UUTA1 / UUTA2	
Notes	 BASIS: UUT#: Indicates that a test specimen matching these characteristics was tested as part of this testing program. INT (Interpolate/Extrapolate): indicates a model that was not specifically tested, and by which seismic certification is established through evaluation of testing of other, similar models in the product line. Seismic qualification is limited subcomponents installed as part of a complete assembly of the equipment defined in Table 1. Table excludes all Electrical Controllers, Switches, Transformers, Circuit Breakers and Fuses up to 10 lbs. or 10 amperes, except as noted. 				

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ATTACHMENT 2: TEST SPECIMEN SUMMARY

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Unit was full of content during test.

UUT- 1	80 Gallon Tai	80 Gallon Tank & Controller Assembly						
MANUFACTURER:	Otis Elevator Comp	pany						
IDENTIFICATION:	Component:	Model No	0.					
	80-gal Tank	AAA2039	90AFI					
	GCS Controller	AAA2124	42E3			_== =		
DESCRIPTION:	Tank & Controller Assembly consisting of: • Hydraulic Machine (Power Unit) w/ 80-Gal Tank assembly, motor & pump: 15HP 480V • GCS Controller mounted to wall of tank Weight includes tank filled with oil and controller mounted to the side of the unit. Includes subcomponents listed in Tables 2 & 3 in a complete assembly.							
MOUNTING:	Rigid Base (Floor) I	Mounted using (4) -	½" Grade 8 bolts.					
PROPERTIES:		FO	K COPL O					
	DIMENSIONS (in.)			LOWES	ST RESONANT	FREQUENC'	Y (Hz.)	
Width	Depth	Height	Weight (lb.)	Front-Axis	Side-	Axis	Vert-Axis	
42.25	19.12 +11.36	40.50	1134	27.6	20	.8	18.7	
SHAKE TABLE T	EST PARAMETERS	4/11	OSP-0359					
TEST C	CRITERIA	S _{DS} (g)	z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
1.30		ohammad Karim	2.08 2.50	1.56 1.00	0.87 1.68	0.35 0.68		

UUT-1B	GCS Controller
MANUFACTURER:	Otis Elevator Company
IDENTIFICATION:	Model No.: AAA21242E3
	Serial No.: 3581303
DESCRIPTION:	Same controller test specimen as mounted to the 80 gallon tank test specimen. Includes subcomponents listed in Tables 2 & 3 in a complete assembly.
MOUNTING:	Rigid Wall Mount w/ $(4) - 3/8$ " dia Allen head cap screws through steel tubing with nuts and washers on rear side.

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Unit maintained structural integrity and functionality after the ICC-ES AC 156 test.



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PROPERTIES:								
	DIMENSIONS (in.)				LOWES	ST RESONANT	FREQUENCY	′ (Hz.)
Width	Depth	Height	Weight (lb.)		Front-Axis	ont-Axis Side-A		Vert-Axis
37.1	11.36	36	140.5 N/A		N/A	N/	A	N/A
SHAKE TABLE TE	SHAKE TABLE TEST PARAMETERS							
TEST C	TEST CRITERIA		z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
ICC-ES AC156		1.30 2.50	1 0	1.5	2.08 2.50	1.56 1.00	0.87 1.68	0.35 0.68
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test. Unit was full of content during test.								



ATTACHMENT 2: TEST SPECIMEN SUMMARY

ATTACHMENT PAGE | 2 OF 3

UUT- 2	190 Gallon Tar	nk & Controller	Assembly				
MANUFACTURER:	Otis Elevator Compa	any					
IDENTIFICATION:	Component	Model No.	Serial No.	THE REAL PROPERTY.			
	190 Gal Tank	AAD20390P1		2			
	GCS Controller	AAA21242E3	3591303				
DESCRIPTION:	Tank & Controller Assembly consisting of: • Hydraulic Machine (Power Unit) w/ 190-Gal Tank assembly, motor & pump: 50HP 480V • GCS Controller mounted to wall of tank Weight includes tank filled with oil and controller mounted to the side of the unit. Includes subcomponents listed in Tables 2 & 3 in a complete assembly.						
MOUNTING:	Rigid Base (Floor) Notes to aluminum interface		1/2" dia. Grade 8 bolts		AC ST		-
PROPERTIES:		FO	K CODE ()				
	DIMENSIONS (in.)			LOWEST RESONANT FREQUENCY (Hz.)			′ (Hz.)
Width	Depth	Height	Weight (lb.)	Front-Axis	Side-	Axis	Vert-Axis
51	29.37+11.36	48.15	2226	8.8	>5	50	32.2
SHAKE TABLE TE	EST PARAMETERS	7/1 (OSP-0359				
TEST CRITERIA S _{DS} (g)		z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
ICC-ES	ICC-ES AC156 1.30 2.50 VIO		ohammad Karim	2.08 2.50	1.56 1.00	0.87 1.68	0.35 0.68
Unit maintained st	tructural integrity and fu	unctionality after the	ICC-ES AC 156 test.		Unit	was full of cont	tent during test

UUT-2B	GCS Controller
MANUFACTURER:	Otis Elevator Company
IDENTIFICATION:	Model No.: AAA21242E3
	Serial No.: 3591303
DESCRIPTION:	Same controller test specimen as mounted to the 190 gallon tank test specimen. Includes subcomponents listed in Tables 2 & 3 in a complete assembly.
MOUNTING:	Rigid Wall Mount w/ $(4) - 3/8$ " dia Allen head cap screws through steel tubing with nuts and washers on rear side.

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PROPERTIES:								
DIMENSIONS (in.)					LOWES	ST RESONANT	FREQUENC	Y (Hz.)
Width	Depth	Height	Height Weight (lb.		Front-Axis	-Axis Side-Axis		Vert-Axis
37.1	11.36	36	137.5 N/A		N/A	N/	A	N/A
SHAKE TABLE TE	SHAKE TABLE TEST PARAMETERS							
TEST CRITERIA S _{DS} (g)		S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
ICC-ES AC156		1.30 2.50	1 0	1.5	2.08 2.50	1.56 1.00	0.87 1.68	0.35 0.68
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test. Unit was full of content during test.								

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ATTACHMENT 2: TEST SPECIMEN SUMMARY

ATTACHMENT PAGE | 3 OF 3

UUT- A1	GCS Controller on Rigid Wall Mount
MANUFACTURER:	Otis Elevator Company
IDENTIFICATION:	Model No.: AAA21242E3
	S/N: 50641715
DESCRIPTION:	Main component of elevator control system. UUT-A1 & UUT-A2 are the same test specimen with different mounting types. Includes subcomponents listed in Tables 2 & 3 in a complete assembly.
MOUNTING:	Wall mounted using (3) $-20 \times 1/4$ " diameter hex head threaded rolling screws (2 top, 1 bottom). Interface frame rigidly attached to shake table using (6) $-5/8$ " diameter grade 8 bolts.



PROPERTIES:											
DIMENSIONS (in.)					LOWEST RESONANT FREQUENCY (Hz.)						
Width	Depth	Height	v	Veight (lb.)	Front-Axis	Side	-Axis	Vert-Axis			
37.1	11.36	36		147	N/A	N	/A	N/A			
SHAKE TABLE TEST PARAMETERS OSP-0359											
TEST CRITERIA		S _{DS} (g)	z/h	Passass	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)			
ICC-ES AC156		1.30 2.50	; Moham	mad ^{.5} Kar	2.08 IM 2.50	1.56 1.00	0.87 1.68	0.35 0.68			
Unit maintained structural integrity and functionality after the ICC-ES AC 156 test											

UUT- A2	GCS Controller on Flexible Wall Mount						
MANUFACTURER:	Otis Elevator Company						
IDENTIFICATION:	Model No.: AAA21242E3						
	S/N: 50641715						
DESCRIPTION:	Main component of elevator control system UUT-A1 & UUT-A2 are the same test specimen with different mounting types. Includes subcomponents listed in Tables 2 & 3 in a complete assembly.						
MOUNTING:	Wall mounted using (3) – 20 x 1/4" diameter hex head threaded rolling screws (2 top, 1 bottom). Interface frame flexibly attached to (4) vibration spring isolators using 1" diameter bolt integral with isolator. The isolators were attached to 30"square x 1" interface plates using (4) – 5/8" diameter grade 8 bolts. The interface plates were attached to shake table using (4) – 5/8" diameter grade 8 bolts.						
PROPERTIES:							
	DIMENSIONS (in.)						

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PROPERTIES:												
	DIMENSIONS (in.)						LOWEST RESONANT FREQUENCY (Hz.)					
	Width	Depth	Height		Weight (lb.)		Front-Axis		Side-Axis		Vert-Axis	
	37.1	11.36	36			147	N/A	N		√A		N/A
SHAKE TABLE TEST PARAMETERS												
	TEST CRITERIA		S _{DS} (g)	z/ł	า	I_P	A _{FLX-H} (g)	A	_{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
	ICC-ES AC156		1.30 2.50	1		1.5	2.08 2.50		1.56 1.00	0.87 1.68		0.35 0.68
	Unit maintained structural integrity and functionality after the ICC-ES AC 156 test. Unit was full of content during test.											

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