



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION
OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0909

HCAI Special Seismic Certification Preapproval (OSP)

Type: ☒ New ☐ Renewal

Manufacturer Information

Manufacturer: Quinn Company

Manufacturer's Technical Representative: Juan Aragon

Mailing Address: 10006 Rose Hills Rd., City of Industry, CA 90601

Telephone: (805) 469-8622 Email: juan.aragon@quinnpower.com

Product Information

Product Name: Custom Generator Controls

Product Model Number(s): See Certified Product Tables

Product Category: Emergency and Standby Power Systems

Product Sub-Category: Generator Control Panels

General Description: Electronic controls for generator systems

Mounting Description: Base Mounted Rigid

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: WE Gundy & Associates, Inc

Contact Person: Travis Soppe

Mailing Address: PO Box 9121, Boise, ID 83707

Telephone: (208) 342-5989 Email: tsoppe@wegai.com

Title: President



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California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: W.E. GUNDY & ASSOCIATES 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

☒ ICC-ES AC156

☐ IEEE 344

☐ IEEE 693

☐ NEBS 3

☐ Other (Please Specify): _____

Testing Laboratory

Company Name: ENVIRONMENTAL TESTING LABORATORIES, INC. (ETL)

Contact Person: Jeremy Lange

Mailing Address: 11034 Indian Trail, Dallas TX 75229-3513

Telephone: (972) 247-9657

Email: jeremy@etldallas.com

BY: Mohammad Karim

DATE: 07/08/2026



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Seismic Parameters

Certified Response Spectral Acceleration Factors:(F_p/W_p)

Horizontal (A Flx-H), g= 3.20 (A Rig-H), g= 2.15

Vertical (A Flx-V), g= 1.68 (A Rig-V), g= 0.68

SDS (Design spectral response acceleration at short period, g) = 2.5 @ z/h = 0; 2.0 @ z/h = 1

H_f (Force amplification height factor) = 1 @ z/h = 0; 3.5 @ z/h = 1

R_u (Structure ductility reduction factor) = 1 @ z/h = 0; 1.3 @ z/h = 1

I_p (Importance factor) = 1.5

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

HCAI Approval (For Office Use Only) - Approval Expires on 07/08/2032

Date: 7/8/2026

Name: Mohammad Karim

Title: Supervisor, Health Facilities

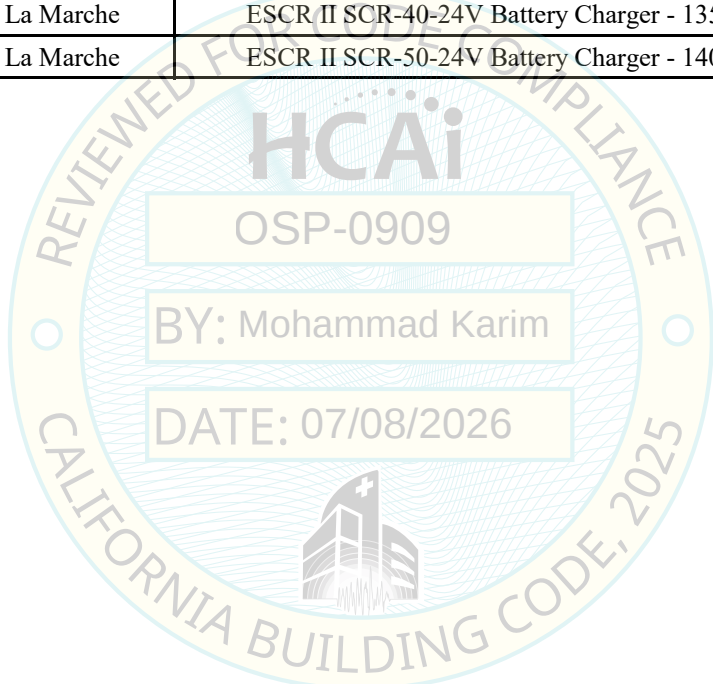
Condition of Approval (if applicable):

OSP-0909

BY: Mohammad Karim

DATE: 07/08/2026

TABLE 1		QUINN COMPANY CUSTOM GENERATOR CONTROL SYSTEMS SEISMICALLY CERTIFIED PRODUCT LINE MATRIX							
Identification #	NEMA Rating	Dimensions (in)			Weight (lb)	UUT			
		Width	Depth	Height					
Custom Generator Control Systems									
ECS-100	NEMA 1	28.0	31.7	69.3	478	UUT-4			
ECS-100 / ECS 200	NEMA 1	28.0	31.7	57.3-75.6	400 - 631	interpolated			
ECS 200	NEMA 1	28.0	31.7	75.6	631	UUT-3			
SCADA Cabinets									
GAP-SCADA	NEMA 1	31.7	32.5	88.4	864	UUT-1			
GEN-CPS-SCADA	NEMA 1	36.1	24.1	90.1	686	UUT-2			
Notes: ¹ Custom generator controls and SCADA cabinets include generator control panels, utility control panels, distribution control panels, and master control panels. ² All control enclosures are constructed of carbon steel									
REVIEWED FOR CODE COMPLIANCE OSP-0909 BY: Muhammad Karim DATE: 07/08/2026 CALIFORNIA BUILDING CODE, 2025									
SEISMIC CERTIFICATION LIMITS - ICC-ES AC 156-24									
CODE	Ip	S _{DS} (g)	z / h	H _f	R _μ	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
CBC 2025	1.5	2.0	1.0	3.5	1.3	3.20g	2.15g	-	-
		2.5	0	1.0	1.0	-	-	1.68g	0.68g

TABLE 2		QUINN COMPANY CUSTOM GENERATOR CONTROL SYSTEMS SEISMICALLY CERTIFIED SUBCOMPONENT MATRIX		
Identification #	Manufacturer	Description	UUT	
SCADA Cabinets - Subcomponents > 10lbs				
SEL-3355	Schweitzer	Automation Controller - Computing Platform - 18lb	UUT-2	
SEL-3350	Schweitzer	Real Time Automation Controller - 16lb	UUT-2	
ELO-22"	ELO Touch	ELO HMI Monitor - 12lb	UUT-2	
Custom Generator Control Systems- Subcomponents > 10lbs				
181828-Encl	Aeon Power	Enclosure Powder Coated CAT Yellow	UUT-3 / UUT-4	
5769IN-ADJST	Aeon Power	Adjustable Stand 57" to 69"	UUT-3 / UUT-4	
ESCR II SCR-30-24V	La Marche	ESCR II SCR-30-24V Battery Charger - 130lb	UUT-3	
ESCR II SCR-40-24V	La Marche	ESCR II SCR-40-24V Battery Charger - 135lb	interpolated	
ESCR II SCR-50-24V	La Marche	ESCR II SCR-50-24V Battery Charger - 140lb	UUT-4	
 HCAi OSP-0909 BY: Mohammad Karim DATE: 07/08/2026				

UUT-1**UNIT UNDER TEST (UUT)
SUMMARY SHEET**

Mounting Details: Rigid floor mounted with (4) 1/2" grade 5 bolts and 3x3x0.25 steel plate washers



Manufacturer: Quinn Company

Test Location: ETL, Dallas, TX

Identification: GAP-SCADA

Test Date: April 13, 2026

Report Number: 18021

UUT Function: Provides control and monitoring systems for engine-generators and circuit breakers

UUT Description: Floor mounted NEMA 1 carbon steel enclosure with internal control and monitoring components to cover varied options for generator operation. See the following page for a list of critical subcomponents within the UUT.

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
864	31.7	32.5	88.4	9.8	7.5	> 33

SEISMIC TEST PARAMETERS - CBC 2025 / ICC-ES AC 156-24

S _{DS} (g)	I _p	z / h	H _f	R _μ	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
2.00	1.5	1	3.5	1.30	3.20g	2.15g	-	-
2.50		0	1	1	-	-	1.68g	0.68g

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 test.

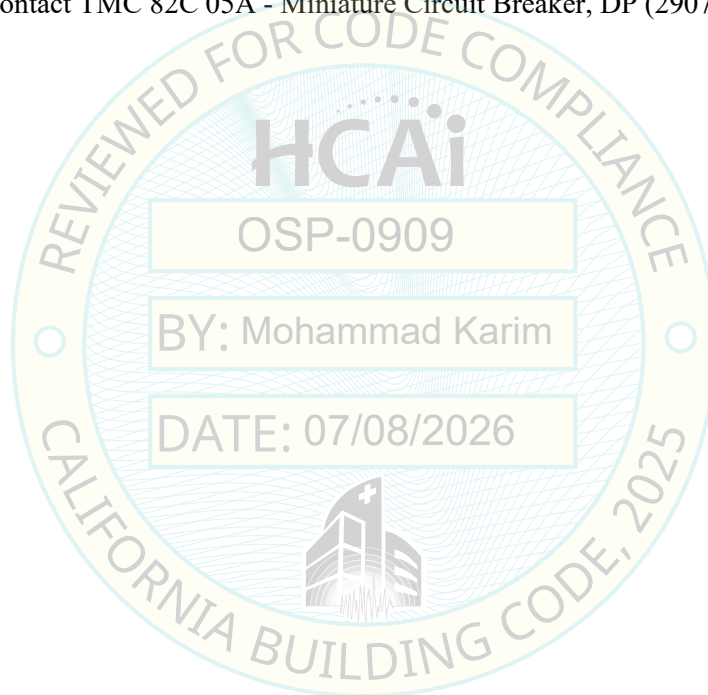
UUT-1

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



List of Subcomponents < 10lbs:

- Schweitzer SEL-3400 IRIG-B Distribution Module (3400A100D1)
- Schweitzer SEL-Managed Ethernet Switch (SEL-2730M)
- Hoffman Compact Cooling Fan (3240193)
- Eaton Receptacle GFCI (TRGF15W-50)
- Phoenix Contact RT 5-T - Test disconnect terminal block (3049039)
- Pfannenberg Thermostat, FLZ 530, 120 VAC (17121000010)
- Phoenix Contact TMC 81C 20A - Miniature Circuit Breaker, SP (2907573)
- Phoenix Contact TMC 81C 05A - Miniature Circuit Breaker, SP (2907562)
- Phoenix Contact UDK 4-MTK-P/P - Knife-disconnect terminal block (2775210)
- Phoenix Contact TMC 82C 20A - Miniature Circuit Breaker, DP (2907597)
- Phoenix Contact TMC 82C 05A - Miniature Circuit Breaker, DP (2907587)



UUT-2**UNIT UNDER TEST (UUT)
SUMMARY SHEET**

Mounting Details: Rigid floor mounted with (4) 1/2" grade 5 bolts and 1.5x1.5x0.25 steel plate washers



Manufacturer: Quinn Company

Test Location: ETL, Dallas, TX

Identification: GEN-CPS-SCADA

Test Date: April 13, 2026

Report Number: 18021

UUT Function: Provides control and monitoring systems for engine-generators and circuit breakers

UUT Description: Floor mounted NEMA 1 carbon steel enclosure with internal control and monitoring components to cover varied options for generator operation. See the following page for a list of critical subcomponents within the UUT.

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
686	36.1	24.1	90.1	11.4	7.0	> 33

SEISMIC TEST PARAMETERS - CBC 2025 / ICC-ES AC 156-24

S _{DS} (g)	I _p	z / h	H _f	R _μ	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
2.00	1.5	1	3.5	1.30	3.20g	2.15g	-	-
2.50		0	1	1	-	-	1.68g	0.68g

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 test.

UUT-2

UNIT UNDER TEST (UUT) SUMMARY SHEET

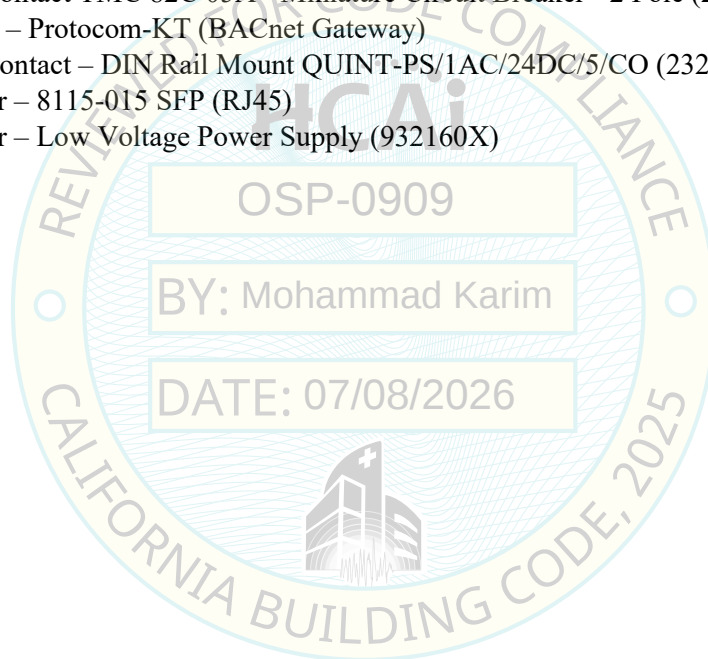


List of Subcomponents > 10lbs:

- Schweitzer Automation Controller - Computing Platform (SEL-3355)
- Schweitzer Real Time Automation Controller (SEL-3350)
- ELO Touch HMI Monitor (ELO-22")

List of Subcomponents < 10lbs:

- Schweitzer Ethernet Switch (SEL-2730M)
- Schweitzer Wide-Area-Networking Multiplexer (SEL - ICON)
- Cisco Catalyst IE3400 Rugged Series Switch (IE-3400-8T2-E)
- Phoenix Contact XT 2,5-QUATTRO-MT - Knife-Disconnect TB (1462725)
- Phoenix Contact RT 5-T - Test disconnect terminal block (3049039)
- Phoenix Contact TMC 82C 20A - Miniature Circuit Breaker - 2 Pole (2907597)
- Phoenix Contact TMC 82C 05A - Miniature Circuit Breaker - 2 Pole (2907587)
- Electroind – Protocom-KT (BACnet Gateway)
- Phoenix Contact – DIN Rail Mount QUINT-PS/1AC/24DC/5/CO (2320908)
- Schweitzer – 8115-015 SFP (RJ45)
- Schweitzer – Low Voltage Power Supply (932160X)



UUT-3**UNIT UNDER TEST (UUT)
SUMMARY SHEET**

Mounting Details: Rigid floor mounted with (4) 1/2" grade 5 bolts



Manufacturer: Quinn Company

Test Location: ETL, Dallas, TX

Identification: ECS-200

Test Date: April 13, 2026

Report Number: 18021

UUT Function: Provides master level logic, operates, and controls engine-generators and circuit breakers

UUT Description: Floor mounted NEMA 1 carbon steel control enclosure with internal control components to cover varied options within the custom generator controls offering. See the following page for a list of critical subcomponents within the UUT.

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
632	28.0	31.7	75.6	12.7	12.8	> 33

SEISMIC TEST PARAMETERS - CBC 2025 / ICC-ES AC 156-24

S _{DS} (g)	I _p	z / h	H _f	R _μ	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
2.00	1.5	1	3.5	1.30	3.20g	2.15g	-	-
2.50		0	1	1	-	-	1.68g	0.68g

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 test.

List of Subcomponents > 10lbs:

- Aeon Power Enclosure Powder Coated CAT Yellow (181828-Encl)
- Aeon Power Adjustable Stand 57" to 69" (5769IN-ADJST)
- La Marche ESCR II SCR-50-24V Battery Charger (ESCR II SCR-50-24V)

List of Subcomponents < 10lbs:

- Caterpillar CDL to J1939 Converter Kit (600-8813)
- Caterpillar Control Group E. A6L3 module (591-1839)
- Caterpillar Harness Assembly. ECS. (567-8238)
- Caterpillar Annunciator (573-5173)
- Caterpillar Discrete Input/Output module (605-1984)
- Caterpillar ECS mounting kit. (562-1934)
- Caterpillar Ethernet Cable (640-9575)
- Caterpillar Speed Brick (512-5720)
- Caterpillar Module Ethernet (350-3459)
- Caterpillar Film - Graphic (356-6633)
- Caterpillar Ethernet receptacle (640-7951)
- Caterpillar Switch A. Magnetic Pick Up. 24VDC (9X-8124)
- Caterpillar CDVR Voltage Regulator Kit (314-7755)
- Caterpillar 8" HMI Electronic Touchscreen Display (584-5631)
- Caterpillar E-Stop Operator Push Button (226-6446)
- Caterpillar Emergency Stop Switch Shroud (442-6219)
- Caterpillar E-Stop Contact NC-E1 (566-9854)
- Caterpillar E-Stop Contact NO-E1 (566-9853)
- Caterpillar Push Button Switch Collar (261-5503)
- Caterpillar 9 Pin Connector Receptacle -CAN One and CAN Two (9W-1951)
- Phoenix Contact PLC-RPT- 24DC/21AU/MS - Relay module. (2909672)
- Phoenix Contact RIF-4-RPT-LDP-24DC/3X21 - Relay module (2903278)
- Phoenix Contact XTV 6 - Feed-through terminal block (1329493)
- Phoenix Contact UK 10,3-CC HESILED N 600 3POL - Fuse holder (3048632)
- Phoenix Contact UK 10,3-CC HESILED N 72 - Fuse holder (3048690)
- Phoenix Contact XT 2,5-QUATTRO - Feed-through terminal block (1343129)
- Phoenix Contact XTVMEA 6 - Test disconnect terminal block (1446173)
- Aeon Power ECS HMI Mounting Bracket (ECS-HMI-MB)
- Aeon Power ECS-200 Extension Bracket (ECS-200 Extension)
- Schweitzer RTD Module (SEL-2600D)

UUT-4

UNIT UNDER TEST (UUT) SUMMARY SHEET



Mounting Details: Rigid floor mounted with (4) 1/2" grade 5 bolts



Manufacturer: Quin Company	Test Location: ETL, Dallas, TX
Identification: ECS-100	Test Date: April 13, 2026
	Report Number: 18021
UUT Function: Provides master level logic, operates, and controls engine-generators and circuit breakers	
UUT Description: Floor mounted NEMA 1 carbon steel control enclosure with internal control components to cover varied options within the custom generator controls offering. See the following page for a list of critical subcomponents within the UUT.	

UUT PROPERTIES

Weight (lb)	Dimensions (inches)			Natural Frequency (Hz)		
	Width	Depth	Height	FB	SS	V
478	28.0	31.7	69.3	13.3	13.0	12.9

SEISMIC TEST PARAMETERS - CBC 2025 / ICC-ES AC 156-24

S _{DS} (g)	I _p	z / h	H _f	R _μ	A _{FLEX-H}	A _{RIG-H}	A _{FLEX-V}	A _{RIG-V}
2.00	1.5	1	3.5	1.30	3.20g	2.15g	-	-
2.50		0	1	1	-	-	1.68g	0.68g

Note: The unit was full of contents during testing and remained functional before and after the ICC-ES AC156 test. The unit maintained structural integrity during and after the ICC-ES AC156 test.

List of Subcomponents > 10lbs:

- Aeon Power Enclosure Powder Coated CAT Yellow (181828-Encl)
- Aeon Power Adjustable Stand 57" to 69" (5769IN-ADJST)
- La Marche ESCR II SCR-30-24V Battery Charger (ESCR II SCR-30-24V)

List of Subcomponents < 10lbs:

- Caterpillar CDJ to J1939 Converter Kit (600-8813)
- Caterpillar Control Group E. A6L3 module (591-1839)
- Caterpillar Harness Assembly. ECS. (567-8238)
- Caterpillar Annunciator (573-5173)
- Caterpillar Discrete Input/Output module (605-1984)
- Caterpillar ECS mounting kit. (562-1934)
- Caterpillar Ethernet Cable (640-9575)
- Caterpillar Speed Brick (512-5720)
- Caterpillar Module Ethernet (350-3459)
- Caterpillar Film - Graphic (356-6633)
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- Phoenix Contact UK 10,3-CC HESILED N 600 3POL - Fuse holder (3048632)
- Phoenix Contact UK 10,3-CC HESILED N 72 - Fuse holder (3048690)
- Phoenix Contact XT 2,5-QUATTRO - Feed-through terminal block (1343129)
- Phoenix Contact XTVMEA 6 - Test disconnect terminal block (1446173)
- Aeon Power ECS HMI Mounting Bracket (ECS-HMI-MB)
- Schweitzer RTD Module (SEL-2600D)
- Quinn ECS-100 Kit (ECS-100-Kit)