

APPLICATION FOR OSHPD SPECIAL SEISMIC	OFFICE	USE ONLY
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #:	OSP – 0233-10
OSHPD Special Seismic Certification Preapproval (OSP)		
Type: 🗌 New 🛛 Renewal		
Manufacturer Information		
Manufacturer: Hochiki America Corporation		
Manufacturer's Technical Representative: Bill Denney		
Mailing Address: _ 7051 Village Drive, Suite 100, Buena Park, CA 9062	:1	
Telephone: <u>559.490.7972</u> Email: bdenn	ey@hochiki.com	
Product Information		
Product Name: FireNET Alarm Control Panels		
Product Type: Fire Alarm Control Panel		
Product Model Number: See Attachment 1		
(List all unique product identification numbers and/or part numbers)		
General Description: Analog addressable fire alarm control panels	and battery cabinets.	
Mounting Description: Rigid wall mounted.		
Applicant Information		
Applicant Company Name: <u>Manwill Engineering LLC</u>		
Contact Person: Derek Manwill, SE		
Mailing Address: PO Box 1194, Bend, OR 97709		
	@manwillSE.com	
I hereby agree to reimburse the Office of Statewide Health accordance with the California Administrative Code, 2016.		opment review fees in
Signature of Applicant:	Date	: 3/15/2017
Title: President Company Name: Manw	ill Engineering LLC	
	, hu	OSHPD
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs" STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY	<u></u>	05110
OSH-FD-759 (REV 12/16/15)	L ALL MALL	Page 1 of 3

STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY OSH-FD-759 (REV 12/16/15)



California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
Company Name: Manwill Engineering LLC
Name: Derek Manwill, SE California License Number: S6266
Mailing Address: PO Box 1194, Bend, OR 97709
Telephone: 541.241.2102 Email: derek@manwillSE.com
Supports and Attachments Preapproval
 Supports and attachments are preapproved under OPM- (Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required) Supports and attachments are not preapproved
Certification Method
 Testing in accordance with: ICC-ES AC156 Other (Please Specify):
Testing Laboratory
Company Name: National Technical Systems (NTS)
Contact Name: Ratish Rao
Mailing Address: 1536 East Valencia Drive, Fullerton, CA 92831

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

Email: ratish.rao@nts.com



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Telephone: 714.879.6110

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Seismic Parameters
Design in accordance with ASCE 7-10 Chapter 13: 🖂 Yes 🔲 No
Design Basis of Equipment or Components (Fp/Wp) = <u>1.88</u>
S_{DS} (Design spectral response acceleration at short period, g) = 2.5
a_p (In-structure equipment or component amplification factor) = 2.5
R_p (Equipment or component response modification factor) = <u>6.0</u>
Ω_0 (System overstrength factor) = 2.0
I_p (Importance factor) = 1.5
z/h (Height factor ratio) = _1
Equipment or Component Natural Frequencies (Hz) = <u>N/A (wall mounted)</u>
Overall dimensions and weight (or range thereof) = See Attachments 1 & 2
Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: 🗌 Yes 🛛 No
Design Basis of Equipment or Components (V/W) =
S _{DS} (Design spectral response acceleration at short period, g) =
S _{D1} (Design spectral response acceleration at 1 second period, g) =
R (Response modification coefficient) =
Ω_0 (System overstrength factor) =
C _d (Deflection amplification factor) =
I_p (Importance factor) = 1.5
Height to Center of Gravity above base =
Equipment or Component Natural Frequencies (Hz) =
Overall dimensions and weight (or range thereof) =
Tank(s) designed in accordance with ASME BPVC, 2015: 🗌 Yes 🖾 No
List of Attachments Supporting Special Seismic Certification
🛛 Test Report(s) 🗌 Drawings 🔲 Calculations 🖾 Manufacturer's Catalog
Other(s) (Please Specify): Attachments 1 & 2
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2022
Signature: Date: 3/15/2017
·
Special Seismic Certification Valid Up to : $S_{DS}(g) = 2.5$ $z/h = 1.0$
Condition of Approval (if applicable):
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"
STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-759 (REV 12/16/15) Page 3 of 3

HOCHIKI AMERICA CORPORATION

ATTACHMENT 1: CERTIFIED COMPONENTS

SEISMIC COMPLIANCE REPORT

TABLE 1

DOCUMENT NO.: 17021CR1.0

MANUFACTURER: HOCHIKI AMERICA CORPORATION											
PRODUCT	FAMILY:	FireNET	ALARM CO		NELS & BA	TTERY ENCL	OSURE				
MODEL NU			DII	MENSIONS	(in)	MAX. WT.	DESCRIPTION / NOTES	DACIC			
NODEL NU	JINIDER		DEPTH	WIDTH	HEIGHT	(lb)	DESCRIPTION / NOTES	BASIS			
FireNET Ana	log Addres	sable Fire	Alarm Cont	rol Panels							
FN-4127N			5.0	14.5	24.0	29		UUT 1			
FN-4127-DD	WN		5.0	14.5	24.0	28		UUT 2			
Plus-1127			3.5	14.5	19.0	20		UUT 3			
FN-ACC			5.8	17.8	14.9	62	UUT 4 weighed 27-lb	UUT 4,5			
MOUNTING:	Rigid wall	mounted.				SEISMIC LEVEL	S_{DS} = 2.5g for z/h = 1	I _P = 1.5			
NOTES:	Options/S				ely identifies s	subcomponents	except for FN-ACC. FN-ACC can ha	ve a range of			

TABLE 2 - SUBCOMPONENTS

MANUFAC	TURER: HOCHIKI AMERICA CORPORATION										
PRODUCT	ODUCT FAMILY: FireNET ALARM CONTROL PANELS & BATTERY ENCLOSURE										
MODEL NU			DI	MENSIONS	(in)	MAX. WT.	DESCRIPTION / NOTES	DACIC			
MODEL NO			DEPTH	WIDTH	HEIGHT	(lb)	DESCRIPTION / NOTES	BASIS			
MK Battery -	12V Batte	ries									
ES7-12			5.9	2.6	3.7	5.3		UUT 4			
ES9-12			5.9	2.6	3.7	5.9		INTERP			
ES10-12			5.9	2.6	4.4	7.3		INTERP			
ES12-12			5.9	3.9	3.7	9.0		INTERP			
ES14-12			5.9	3.9	3.7	9.4		INTERP			
ES17-12			7.1	3.0	6.6	13		INTERP			
ES20-12			7.1	3.0	6.6	13		INTERP			
ES26-12			6.5	6.9	4.9	21		INTERP			
ES33-12			7.8	5.2	6.3	23		UUT 5			
MOUNTING:	Mounted	within unit.				SEISMIC LEVEL(S)	$S_{DS} = 2.5g \text{ for } z/h = 1$	I _P = 1.5			
NOTES:	Product	Constructio	n/Options: Mo	odel number u	uniquely ident	ifies manufactu	irer, materials and configuration of sub	components.			



HOCHIKI AMERICA CORPORATION

ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SEISMIC COMPLIANCE REPORT

UUT 1

DOCUMENT NO.: 17021CR1.0

								-			
MANUFA	CTURER:	HOCHIKI	AMERICA CO	RPORAT	ION						
MODEL N	NUMBER:	FireNET F	N-4127N								
UNIT FUI	NCTION:	Alarm Con	trol Panel								
SERIAL I	NUMBER:	N/A									
DI	MENSIONS ((in)	WEIGHT	RES.	. FREQ	. (Hz)					
DEPTH	WIDTH	HEIGHT	(lb)	F-B	S-S	V					
5.0	14.5	24.0	29	N/A	N/A	N/A					
BUILDIN	G CODE	TEST C	RITERIA	LAB I	REPOR	T NO.					
2016	2016 CBC ICC-ES AC156				S 113-2	355					
S _{DS} (g)	z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V}	(g) A	_{RIG-V} (g)					
2.5	1	4.00	3.00	1.68		0.68		A ROSER			
Unit was fu	Ill of operating ntegrity and re	OR, I _P = 1.5 content durin mained functi	•				r				
MOUNTI	NG:	Rigid wall ı	Rigid wall mounted using (4) #10 screws.								
CONSTD	UCTION:	Carbon steel enclosure									
CONSTR			Model number uniquely identifies subcomponents.								
	PONENTS:	Model num	ber uniquely	dentifies :	subcom	oonents.					

UUT 2

MANUFA	CTURER:	HOCHIKI	AMERICA CO	RPORAT	TION								
MODEL N	NUMBER:	FireNET F	N-4127-DDWI	N									-
UNIT FUI	NCTION:	Alarm Con	trol Panel							-	-	-	
SERIAL I	NUMBER:	N/A					-		10	. 1	-		
DI	MENSIONS	(in)	WEIGHT	RES	6. FREQ	. (Hz)	1	22					
DEPTH	WIDTH	HEIGHT	(lb)	F-B				E			E row	5	-
5.0	14.5	24.0	28	N/A	N/A	N/A						-	
BUILDIN	G CODE	TEST C	RITERIA	LAB	REPOR	T NO.		10		1	Conception of the later		
2016	2016 CBC ICC-E		ICC-ES AC156 NT								0.47 10 100		60
S _{DS} (g)	z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V}	(g) A	_{RIG-V} (g)			1000	-		aj (12 5
2.5	1	4.00	3.00	1.68	3	0.68			-	R	1	Re	-0 D
Unit was fu	Ill of operating	OR, I_P = 1.5 content durin emained functi	•							b		2	o
MOUNTI	NG:	Rigid wall ı	Rigid wall mounted using (4) #10 screws.										
CONSTR	UCTION:	Carbon ste	Carbon steel enclosure										
SUBCON	IPONENTS:	Model num	iber uniquely i	dentifies	subcom	oonents.							
TESTING	NOTES:	N/A											



HOCHIKI AMERICA CORPORATION

ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SEISMIC COMPLIANCE REPORT

UUT 3

DOCUMENT NO.: 17021CR1.0

MANUFA	CTURER:	HOCHIKI AMERICA CORPORATION							
MODEL N	UMBER:	FireNET P	FireNET Plus-1127						
UNIT FUN	ICTION:	Alarm Con	trol Panel						
SERIAL N	NUMBER:	N/A	A						
DIN	IENSIONS	(in)	WEIGHT	RES. FREQ. (Hz)					
DEPTH	WIDTH	HEIGHT	(lb)	F-B S-S V					
3.5	14.5	19.0	20	N/A	N/A	N/A			
BUILDIN	G CODE	TEST C	RITERIA	LAB	REPO	rt no.			
2016	CBC	ICC-ES	AC156	NT	FS 113-:	2355			
S _{DS} (g)	z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V}	(g) A	A _{RIG-V} (g)			
2.5	1	4.00	3.00	1.68	3	0.68			
Unit was ful	Ill of operating	OR, I _P = 1.5 g content durin emained functi	-						
MOUNTIN	NG:	Rigid wall ı	Rigid wall mounted using (4) #10 screws.						
CONSTRU	UCTION:	Carbon ste	Carbon steel enclosure						
			Model number uniquely identifies subcomponent						
SUBCOM	PONENTS:	Model num	Model number uniquely identifies subcomponent						

UUT 4

MANUFA	CTURER:	HOCHIKI	AMERICA CO	RPORAT	TION			/									
MODEL I	ODEL NUMBER: FN-ACC									-	-						
UNIT FU	NCTION:	Alarm Batt	ery Panel										9				
SERIAL I	NUMBER:	N/A															
DII	MENSIONS	(in)	WEIGHT	RES	6. FRE	Q. (Hz)	. (
DEPTH	WIDTH	HEIGHT	(lb)	F-B			\smile	-				1	22				
5.8	17.8	14.9	27	N/A	N/A	N/A											
BUILDIN	IG CODE	TEST C	RITERIA	LAB	REPO	RT NO.							100				
2016	CBC	ICC-ES	AC156	N	TS 113-	2355				100							
S _{DS} (g)	z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V}	(g) /	A _{RIG-V} (g)											
2.5	1	4.00	3.00	1.68	3	0.68		4		- the	2	-	-				
Unit was fu	ull of operating ntegrity and re	OR, I_P = 1.5 g content durin emained functi						E					•				
MOUNTI	NG:	Rigid wall r	mounted using	g (4) #10	screws	•											
CONSTR	UCTION:	Carbon ste	el enclosure														
SUBCON	PONENTS:	MK Battery	/ - battery (two	5 ES7-12)			MK Battery - battery (two ES7-12)									
		N/A															



HOCHIKI AMERICA CORPORATION

ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SEISMIC COMPLIANCE REPORT

UUT 5

DOCUMENT NO.: 17021CR1.0

MANUFA	CTURER:	HOCHIKI	AMERICA CO	RPORAT	ION		
MODEL N	NUMBER:	FN-ACC					
UNIT FUN	NCTION:	Alarm Batt	ery Panel				
SERIAL N	NUMBER:	N/A					
DIN	MENSIONS	(in)	WEIGHT	RES	. FREC	Q. (Hz)	
DEPTH	WIDTH	HEIGHT	(lb)	F-B S-S V			
5.8	17.8	14.9	62	N/A	N/A	N/A	
BUILDIN	G CODE	TEST C	RITERIA	LAB	REPO	RT NO.	
2016	CBC	ICC-ES	AC156	NT	S 113-2	2355	
S _{DS} (g)	z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V}	(g) A	_{RIG-V} (g)	
2.5	1	4.00	3.00	1.68	;	0.68	
Unit was fu	Ill of operating ntegrity and re	OR, I _P = 1.5 g content durin emained functi	•				
MOUNTIN	NG:	Rigid wall ı	mounted using	g (4) #10 :			
CONSTR	UCTION:	Carbon ste	el enclosure				
SUBCOM	IPONENTS:	MK Battery	 battery (two) ES33-12	2)		
TESTING	NOTES:	N/A					