

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

OFFICE USE ONLY APPLICATION FOR HCAI SPECIAL SEISMIC **CERTIFICATION PREAPPROVAL (OSP)** APPLICATION #: OSP-0555 **HCAI Special Seismic Certification Preapproval (OSP)** Type: New Renewal **Manufacturer Information** Manufacturer: Cisco Systems, Inc. Manufacturer's Technical Representative: Marc Mantelli Mailing Address: 170 West Tasman Drive, San Jose, CA 95134 Telephone: (408) 526-7175 Email: mmantell@cisco.com **Product Information** Product Name: Networking Equipment Product Model Number(s): See Attachment Product Category: Internal Communication Servers and Routers Product Sub-Category: Servers & Routers Rack mounted networking equipment including switches, routers, and firewalls rigid mounted in four-General Description: post or two-post racks. Mounting Description: Base Mounted Rigid - \(\triangle \) None Tested Seismic Enhancements: **Applicant Information** Applicant Company Name: Manwill Engineering LLC Contact Person: Derek Manwill

Mailing Address: PO Box 1194, Bend, OR 97709

Telephone: (541) 241-2102 Email: derek@manwillSE.com

Title: President



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

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
Company Name: MANWILL ENGINEERING LLC
Name: Derek Manwill California License Number: S6266
Mailing Address: PO Box 1194, Bend, OR 97709
Telephone: (541) 241-2102 Email: derek@manwillse.com
Certification Method
☐ GR-63-Core
Other (Please Specify):
EOR CODE CO.
Testing Laboratory
Company Name: CISCO SYSTEMS, INC.
Contact Person: Rory Dougherty
Mailing Address: 170 W Tasman Drive, San Jose CA 95134
Telephone: (408) 424-2372 Email: rdougher@cisco.com
Company Name: ELEMENT (ELMT) - Newark
Contact Person: Rajnesh Nand PAIE: 02/05/2025
Mailing Address: 38995 Cherry Street, Newark CA 94560
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STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY



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

Seismic Parameters								
Design Basis of Equipment or Components	s (Fp/Wp) = 1.44 (SDS=2.00, z/h=1), 1.13 (SDS=2.50, z/h=0)							
SDS (Design spectral response acceleration at short period, g) = 2.00 (z/h=1), 2.50 (z/h=0)								
a _P (Amplification factor) =	1.0							
R _P (Response modification factor) =	2.5							
Ω0 (System overstrength factor) =	2.0							
Ip (Importance factor) =	1.5							
z/h (Height ratio factor) =	1 and 0							
Natural frequencies (Hz) =	See Attachment							
Overall dimensions and weight =	See Attachment Onc							

HCAI A	CAI Approval (For Office Use Only) - Approval Expires on 02/05/2031								
Date:	2/5/2025 OSP-0555	12							
Name:	Mohammad Karim	Title:	Supervisor, Health Facilities						
Special	Seismic Certification Valid Up to: Sps (g) = 2.0	z/h =	1						
Conditio	n of Approval (if applicable): DATE 02/05/2025								



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SPECIAL SEISMIC CERTIFICATION

CISCO SYSTEMS, INC. Networking Equipment

			TABLE 1			
Model Number		mensions (i	,	Max. Wt.	Description / Notes	Basis
Four-Post Rack Mounted Networking	Depth	Width	Height	(lb)		
Four-Post Rack Mounted Networking	j Equipinent					
Nexus 9504 Custom	36.0	24.0	84.0	944	Hcg=37.0-in, Telect 4-post	UUT 1
Catalyst 9000 Custom	36.0	24.0	84.0	791	Hcg=41.6-in, Telect 4-post	UUT 2
Catalyst 9600 Custom	36.0	24.0	84.0	789	Hcg=43.5-in, Telect 4-post	UUT 3
4-Post Custom 5	36.0	24.0	84.0	980	Hcg=46.4-in, Telect 4-post	UUT 5
Two-Post Rack Mounted Networking	Equipment					
2-Post Custom 4	15.0	24.0	84.0	776	Hcg=54.7-in, Chatsworth 2-post	UUT 4
Manualina Dana Manualad Divid		-OR	CODE	Seismic	$S_{DS} = 2.00g$ for $z/h = 1$	
Mounting: Base Mounted, Rigid.		FOIL	11444444444	Levels:	$S_{DS} = 2.50g$ for $z/h = 0$	$I_P = 1.5$

Product Construction: Welded carbon steel four-post rack (Telect DR1250-84436) or two-post rack (Chatsworth Seismic Frame 13855-703).

Options/Subcomponents: Four-post racks may contain any combination of subcomponents listed in Table 2. Two-post racks may contain any combination of components listed in Table 3. Total combination of weight and height to center of gravity (Hcg) must be less than or equal to the values listed above.

OSP-0555

BY: Mohammad Karim

DATE: 02/05/2025





SPECIAL SEISMIC CERTIFICATION

CISCO SYSTEMS, INC. Networking Equipment

	TABLE	2. SUBCO	MPONEN	TS - 4-Post	Racks	
Model Number		imensions (i		Max. Wt.	Description / Notes	Basis
	Depth	Width	Height	(lb)		
Type: Nexus 9504 - Mfr: Cisco S	-					
N9K-C9504	33.2	17.5	12.3	248	Main chassis, 4 linecard slots	UUT 1
Type: Nexus 9504 Parts - Mfr: Ci	isco Systems, Inc	•				
N9K-C9504-FM-E	P	art included in	n main chass	s.	Fabric module, 100G, ACI, NX-OS	UUT 1
N9K-C9504-FAN	P	art included in	n main chass	s.	Fan tray, port-side intake	UUT 1
N9K-SC-A	P	art included in	n main chass	s.	System controller	UUT 1
N9K-SUP-B	P	art included in	n main chass	S.	Supervisor B	UUT 1
N9K-PAC-3000W-B	F	art included in	n main chass	S.	3000W power supply	UUT 1
N9K-X9732C-EX	F	art included in	n main chass	s.	Agg/ACI linecard, 32 port 100G	UUT 1
QSFP-40G-SR-BD	F	<mark>art included ir</mark>	n main chass	s.	QSFP40G BiDi short transceiver	UUT 1
GLC-TE	/ N P	art included in	main chass	S.	1000BASE-T SFP transceiver	UUT 1
SFP-10G-SR	/\Y/P	art included in	main chass	s.	10GBASE-SR SFP module	UUT 1
Type: Catalyst 6807 - Mfr: Cisco	Systems, Inc.				5	
C6807-XL	18.1	17.4	P47.555	5 195	Main chassis, 7 slot, 10RU	UUT 1
Type: Catalyst 6807 Parts - Mfr:	Cis <mark>co Sys</mark> tems, Ir	ic.				
C6807-XL-FAN	VYX/X/VX/	art included in		17 1 20	Fa <mark>n tray</mark>	UUT 1
C6800-SUP6T		art included in	n main chass	karım 🛚	Sup6T, 440G/slot, 8x10GE, 2x40GE	UUT 1
SFP-10G-SR	V//////	art included in	n main chass	s.	10GBASE-SR SFP module	UUT 1
QSFP-40G-SR-BD	F	art included in	main chass	S.	QSFP40G BiDi short transceiver	UUT 1
C6800-32P10G		art included in	main chass	(J) 25	32 port 10GE with dual DFC4	UUT 1
C6800-XL-3KW-AC	Z	art included in	n main chass	s.	3000W power supply	UUT 1
Type: Catalyst 3650 - Mfr: Cisco	Systems, Inc.				~	
C1-WS3650-48TQ/K9	17.6	17.5	1.7	20	Switch, 48 Port Data 4x10G Uplink	UUT 1
Type: Catalyst 3650 Parts - Mfr:	Cisco Systems, Ir	ıc.			~ /	
S3650UK9-163	F	art included in	n main chass	s. O	UNIVERSAL	UUT 1
PWR-C2-1025WAC/2	P	art included in	n main chass	S.	1025W secondary power supply	UUT 1
PWR-C2-250WAC	P	art included in	n main chass	S.	250W power supply	UUT 1
C3650-STACK-KIT	P	art included in	n main chass	s.	Stack module	UUT 1
C3650-STACK	P	art included in	n main chassi	s.	Stack module	UUT 1
STACK-T2-1M	P	art included in	n main chassi	s.	Stacking cable	UUT 1
Type: Catalyst 9300 - Mfr: Cisco	Systems, Inc.					
C9300-24T	17.5	17.5	1.7	19	Switch 24-port data only	UUT 2
C9300-24P	17.5	17.5	1.7	19	Switch 24-port PoE+	INTERF
C9300-24U	17.5	17.5	1.7	19	Switch 24-port UPOE	INTERF
C9300-48T	17.5	17.5	1.7	21	Switch 48-port data only	INTERF
C9300-48P	17.5	17.5	1.7	21	Switch 48-port PoE+	INTERF
C9300-48U	17.5	17.5	1.7	21	Switch 48-port UPOE	UUT 2
Type: Catalyst 9300 Parts - Mfr:					•	
C9300-NM-4G	-	art included in	n main chassi	s.	4 x 1GE network module	UUT 2
C9300-NM-2Q		art included in			2 x 40GE network module	INTERF
C9300-NM-4M		art included in			4 x MGig network module	INTERF
C9300-NM-8X		art included in			8 x 10GE network module	UUT 2
GLC-SX-MM-RGD		art included in			1G SFP optical module	UUT 2
SFP-10G-SR		art included in			10G SFP optical module	UUT 2

Notes: Table continues on the next page. Additional notes, information, and seismic parameters are shown at the end of the table.





SPECIAL SEISMIC CERTIFICATION

CISCO SYSTEMS, INC. Networking Equipment

	TABLE 2. SUE	BCOMPON	ENTS - 4-	Post Racks	s (continued)	
Model Number	Di Depth	mensions (in Width) Height	Max. Wt. (lb)	Description / Notes	Basis
Гуре: Catalyst 9300 Parts - Mfr: С			-	(ID)		
PWR-C1-350WAC	-	art included in		9	350WAC power supply	UUT :
PWR-C1-715WAC		art included in			715WAC power supply	INTER
PWR-C1-1100WAC		art included in			1100WAC power supply	UUT
FAN-T2		art included in			Fan module	UUT
Гуре: Catalyst 9400 - Mfr: Cisco S		art iriciaded iri	main chassi	3.	i ali module	001
C9407R	16.3	17.3	17.4	146	7 slot chassis	UUT
C9410R	16.3	17.3R	22.6 F	174	10 slot chassis	UUT
Гуре: Catalyst 9400 Parts - Mfr: С		12171	AVAVAVA CAVA		10 3101 01183313	001
C9400-LC-12QC		art included in	main chassi	1/10	12-Port 40GE/4-port 100GE	EXTRA
C9400-LC-24XS		art included in			24-Port 10G ethernet SFP+	UUT
C9400-LC-24XY		art included in			20-Port 25GE and 4-Port 10GE	INTER
C9400-LC-24S		art included in	//	$\overline{f v}$ $f v$ $f v$ $f v}{f v}$ $f v$ $f v$ $f v}{f v}$ $f v$ $f v$ $f v$ $f v}{f v}$ $f v$ } f v $f v$ $f v}$ {f v}{f v} $f v$ }{f v}{f v}{f v}{f v} $f v$ }{f v} $f v$ }{f v} $f v$ }{f v}{f v}{f v}{f v}{f v}{f v}{f v} $f v$ }{f v}{f v} $f v$ $f v$ }{f v}{f v}{f v} $f v$ $f v$ $f v$ }{f v}{f v}{f v} $f v$ $f v$ }{f v} $f v$ $f v$ }{f v} $f v$ $f v$ $f v$ }{f v} $f v$ }{f v}{f v} $f v}$ {	24-Port Gigabit Ethernet(SFP)	INTER
C9400-LC-48T	///////////////////////////////////////	art included in			48-Port 10/100/1000 RJ-45	INTER
C9400-LC-48UX		art included in			48Port UPOE 24p mGig 24p RJ-45	INTER
C9400-LC-48HX		art included in			48-Port UPOE+ 10G mGig	INTER
C9400-LC-48HN		art included in		[/! W	48-Port UPOE+ 5G (RJ-45)	INTER
C9400-LC-48H		art included in			48-Port UPOE+ 10/100/1000 (RJ-45)	INTER
C9400-LC-48TX		art included in			48-Port 10 Gigabit Ethernet Data	INTER
C9400-LC-48XS		art included in	10/0E/0		48-Port 10 Gigabit Ethernet(SFP+)	INTER
C9400-LC-48P		art included in			48-Port POE+ 10/100/1000 (RJ-45)	INTER
C9400-LC-48S		art included in	D. 7 (2000)		48-Port Gigabit Ethernet(SFP)	INTER
C9400-LC-48U	P	art included in	main chassi	s.	48-Port UPOE 10/100/1000 RJ-45	UUT
C9400-SUP-1		art included in			Supervisor 1 module	UUT
C9400X-SUP-2XL	1.1	art included in			Supervisor 2XL module	INTER
SFP-10G-SR		art included in			10G SFP optical module	UUT
SFP-10G-SR-X		art included in	11 1 11 1 1 1 1 1 1		10G SFP optical module	UUT
QSFP-40G-SR4		art included in			40G QSFP optical module	UUT
C9410-FAN		art included in			10 slot chassis fan tray	UUT
C9407-FAN		art included in			7 slot chassis fan tray	UUT
C9410-ACC-KIT	Pa	art included in	main chassi	S.	10 slot chassis accessory kit	UUT
C9407-ACC-KIT		art included in			7 slot chassis accessory kit	UUT
C9410-RACK-KIT		art included in			10 slot chassis rack mount	UUT
C9407-RACK-KIT	Pa	art included in	main chassi	S.	7 slot chassis rack mount	UUT
C9400-S-BLANK		art included in			Slot blank cover	UUT
C9400-PWR-3200AC		art included in			3200W power supply	UUT
Гуре: Catalyst 9500 - Mfr: Cisco S						
C9500-12Q	21.5	17.5	1.7	28	Switch 12-port 40G QSFP+	EXTRA
C9500-24Q	21.5	17.5	1.7	29	Switch 24-port 40G QSFP+	UUT
C9500-40X	21.5	17.5	1.7	28	Switch 40-port 10G SFP/SFP+	UUT
Гуре: Catalyst 9500 Parts - Mfr: С					·	
C9500-NM-8X		art included in	main chassi	S.	Network module 8-port 10G SFP+	UUT
C9500-NM-2Q	Pa	art included in	main chassi	S.	Network module 2-port 40G QSFP+	UUT
QSFP-H40G-AOC3M	Pa	art included in	main chassi	S.	40G QSFP optical module	UUT





SPECIAL SEISMIC CERTIFICATION

CISCO SYSTEMS, INC. Networking Equipment

	TABLE 2. S	UBCOMPON	ENTS - 4-	Post Rack	s (continued)	
Model Number	Depth	Dimensions (ir Width) Height	Max. Wt. (lb)	Description / Notes	Basis
Type: Catalyst 9500 Parts - Mfr:	•		•	,		
QSFP-40G-SR4		Part included in	main chassi	s.	40G QSFP optical module	UUT 2
SFP-10G-SR		Part included in	main chassi	s.	10G SFP optical module	UUT 2
FAN-T4-R		Part included in	main chassi	S.	Fan	UUT 2
PWR-C4-950WAC-R		Part included in			950W power supply	UUT 2
C9500-ACC-KIT-19I		Part included in	main chassi	S.	Accessory kit 19" rack mount	UUT 2
C9500-4PT-KIT		Part included in	main chassi	S.	Extension rails/brackets four-point	UUT 2
Type: ASR 1002 - Mfr: Cisco Sys	stems, Inc.	-OR	LUDE	Ca	·	
ASR1002-HX	19.3	17.3	3.5	34/	Router 4x10GE+4x1GE, 2xP/S	UUT 1
Type: ASR 1002 Parts - Mfr: Cisc	co Systems, Inc					
SFP-10G-SR	(L)	Part included in	main chassi	s	10GBASE-SR SFP module	UUT 1
GLC-TE	/4/	Part included in			1000BASE-T SFP transceiver	UUT [^]
ASR1002HX-IPSECHW	(3)	Part included in	V V XXXX V V V X XXX ($\overline{f v}$ $f v$ $f v$ $f v}{f v}$ $f v$ $f v$ $f v$ $f v}{f v}$ $f v$ $f v}$ {f v}{f v} $f v$ }{f v} $f v$ }{f v}{f v}{f v} $f v$ }{f v} $f v$ $f v$ $f v$ $f v$ }{f v} $f v$ $f v$ $f v$ $f v$ $f v$ }{f v} $f v$ $f v$ }{f v} $f v$ $f v$ }{f v} $f v$ $f v$ $f v$ $f v$ }{f v} $f v$ }{f v} $f v$ $f v$ $f v$ $f v$ $f v$ }{f v}{f v}{f v}{f v}{f v} $f v$ }{f v} $f v$ $f v$ }{f v}{f v}{f v} $f v$	Crypto module	UUT [^]
ASR1000X-AC-750W	14/	Part included in	DOCE		750W power supply	UUT [^]
EPA-10X10GE		Part included in	main chassi	S.	10X10GE ethernet port adapter	UUT ²
Type: Firepower 4120/4140 - Mfr	: C <mark>isco S</mark> ystems	s, Inc.				
FPR4120-NGFW-K9	29.7		ammad	Karim (NGFW appliance, 1U, 2 x NetMod	UUT ²
FPR4140-NGFW-K9	29.7	16.9	1.8	41	NGFW Appliance, 1U, 2 x NetMod	UUT 1
Type: Firepower 4120/4140 Parts	s - <mark>Mfr: C</mark> isco Sy	stems, Inc.				
FPR4K-PWR-AC-1100		Part included in	main chassi	025	1100W power supply	UUT [^]
SFP-10G-SR	\F\	Part included in	main chassi	s. Harris	10GBASE-SR SFP module	UUT [^]
FPR4K-SSD200		Part included in	main chassi	S.	SSD for FPR-4110/4120	UUT [^]
FPR4K-SSD-BBLKD		Part included in	main chassi	s.	SSD slot carrier	UUT 1
GLC-TE		Part included in	main chassi	S.	1000BASE-T SFP transceiver	UUT 1
FPR4K-FAN		Part included in	main chassi	s.	Fan	UUT 1
FPR4K-NM-8X10G		Part included in	main chassi	S. 1	8 port SFP+ network module	UUT 1
SFP-10G-SR		Part included in	/ / / / / / / / / /		10GBASE-SR SFP module	UUT 1
FPR4K-PWR-AC-1100		Part included in	main chassi	S.	1100W power supply	UUT 1
SFP-10G-SR		Part included in	main chassi	S.	10GBASE-SR SFP module	UUT ²
FPR4K-SSD400		Part included in	main chassi	S.	SSD for FPR-4140/4150	UUT ²
FPR4K-SSD-BBLKD		Part included in	main chassi	S.	SSD slot carrier	UUT ²
GLC-TE		Part included in	main chassi	S.	1000BASE-T SFP transceiver	UUT 1
FPR4K-FAN		Part included in	main chassi	S.	Fan	UUT [^]
FPR4K-PWR-AC-1100		Part included in	main chassi	S.	1100W power supply	UUT 1
FPR4K-NM-4X40G		Part included in	main chassi	S.	4 port QSFP+ network module	UUT 1
QSFP-40G-SR4		Part included in			QSFP transceiver module w/ MPO	UUT 1
Type: Catalyst 9600 - Mfr: Cisco	Systems, Inc.					
C9606R	16.1	17.4	14.0	135	6 slot chassis	UUT 3
Type: Catalyst 9600 Parts - Mfr:	Cisco Systems,	Inc.				
C9600-LC-24C	-	Part included in	main chassi	S.	24-Port 40GE/12-Port 100GE	UUT :
C9600X-LC-32CD		Part included in	main chassi	S.	30-Port 100G, 2-Port 400G	INTER
C9600X-LC-56YL4C		Part included in	main chassi	S.	56-Port 10G/25G/50G, 4-Port 100G	INTER
C9600-LC-40YL4CD		Part included in	main chassi	S.	40-Port 1/10/25/50G,2x200G,2x400	INTER
C9600-LC-48S		Part included in	main chassi	S.	48-Port 1Gig Fiber	INTER

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SPECIAL SEISMIC CERTIFICATION

CISCO SYSTEMS, INC. Networking Equipment

	TABLE 2. S	UBCOMPO	NENTS - 4	-Post Rack	s (continued)	
Model Number		Dimensions	(in)	Max. Wt.	Description / Notes	Basis
	Depth	Width	Height	(lb)	Description, Notes	Daoio
Type: Catalyst 9600 Parts - Mfr:	Cisco Systems	, Inc. (continu	ıed)			
C9600-LC-48TX		Part included	I in main chass	is.	48-Port Copper	UUT 3
C9600-LC-48YL		Part included	I in main chass	is.	48-Port 25GE/10GE/1GE	UUT 3
C9606-FAN		Part included	I in main chass	is.	C9606 chassis fan tray	UUT 3
C9600-SUP-1		Part included	I in main chass	sis.	Supervisor 1 module	UUT 3
C9600X-SUP-2		Part included	I in main chass	sis.	Supervisor 2 module (identical to 1)	INTERP
SFP-10G-SR		Part included	I in main chass	is.	10GBASE-SR SFP optical module	UUT 3
SFP-25G-SR-S		Part included	l in main chass	sis.	25GBASE-SR SFP optical module	UUT 3
QSFP-H40G-AOC3M		Part included	l in main chass	is.	QSFP active optical cable	UUT 3
QSFP-100G-SR4-S		Part included	I in main chass	is.	QSFP transceiver module w/ MPO	UUT 3
QSFP-40/100-SRBD	1.19	Part included	I in main chass	is.	QSFP transceiver module w/ LC	UUT 3
C9606-SLOT-BLANK		Part included	I in main chass	is.	Slot blank cover	UUT 3
C9600-PWR-2KWDC		Part included	l in main chass	is.	2000W DC power supply	UUT 3
C9600-PWR-2KWAC		Part included	I in main chass	is.	2000W AC power supply	UUT 3
Type: Catalyst 8500 - Mfr: Cisco	Sy <mark>stems,</mark> Inc.					
C8500-20X6C	26.9	17.3	5.2	77	20 <mark>X6C E</mark> dge Platform	UUT 5
Type: Catalyst 8500 Parts - Mfr:	Ci <mark>sco Sy</mark> stems	ncY Mo	hammad	Karim		
PWR-CH1-950WDC		Part included	I in main chass	sis.	950W DC power supply, sim.to ASR	INTERP
PWR-CH1-1100WAC		Part included	I in main chass	sis.	1100W AC power supply	UUT 5
C8500-FAN-3R		Part included	I in main chass	3025	Fan Tray, 3RU	UUT 5
Type: Secure Firewall 3100/420	0 - Mfr: Cisco S	stems, Inc.				
FPR-3105	31.0	16.9	1.7	23	Firewall 3105	UUT 5
FPR-3110	31.0	16.9	1.7	23	Firewall 3110	INTERP
FPR-3120	31.0	16.9	1.7	23	Firewall 3120	INTERP
FPR-3130	31.0	// 16.9	1.7	25	Firewall 3130	INTERP
FPR-3140	31.0	16.9	ITI 1.7TN	25	Firewall 3140	UUT 5
FPR-4215	32.0	16.9	717471	43	Firewall 4215	UUT 5
FPR-4225	32.0	16.9	1.7	43	Firewall 4225	INTERP
FPR-4245	32.0	16.9	1.7	46	Firewall 4245	UUT 5
Type: Secure Firewall 3100/420	0 Parts - Mfr: Ci	sco Systems,	Inc.			
FPR3K-PWR-AC-400		Part included	I in main chass	sis.	400W AC power supply	UUT 5
PWR-CC1-400WDC		Part included	I in main chass	is.	400W DC power supply	UUT 5
FPR4200-PWR-AC		Part included	I in main chass	is.	AC power supply	UUT 5
FPR3K-SSD900			I in main chass		900GB SSD	UUT 5
FPR4200-SSD1800		Part included	I in main chass	is.	1.8TB SSD	UUT 5
FPR3K-XNM-8X10G			I in main chass		8X10G SFP+ Netmod	UUT 5
FPR3K-XNM-6X1SXF			I in main chass		6X1G FTW Netmod, SX-Multimode	INTERP
FPR3K-XNM-6X10LRF			I in main chass		6X10G FTW Netmod, LR-Single	INTERP
FPR3K-XNM-6X10SRF			I in main chass		6X10G FTW Netmod, SR-Multimode	INTERP
FPR3K-XNM-8X1GF			I in main chass		8X1G Copper FTW Netmod, RJ45	INTERP
FPR4K-XNM-6X25LRF			I in main chass		6X25G FTW Netmod, LR-Single	UUT 5
FPR4K-XNM-8X1GF			I in main chass		8X1G Copper FTW Netmod, RJ45	UUT 5
FPR4K-XNM-4X200G			l in main chass		4X200G Netmod	UUT 5
FPR4K-XNM-8X25G			I in main chass		8X25G ZSFP Netmod	UUT 5

Notes: Table continues on the next page. Additional notes, information, and seismic parameters are shown at the end of the table.





SPECIAL SEISMIC CERTIFICATION

CISCO SYSTEMS, INC. Networking Equipment

T	ABLE 2. S	ВИВСОМРО	NENTS - 4-	Post Racks	(continued)	
Model Number	D 4	Dimensions		Max. Wt.	Description / Notes	Basis
Times Coours Financell 2400/4200 Po	Depth		Height	(lb)		
Type: Secure Firewall 3100/4200 Pa	rts - IVIII: CI	-	-	-	074000 0050 N /	INTERR
FPR4K-XNM-2X100G			in main chassi		2X100G QSFP+ Netmod	INTERP
FPR4K-XNM-4X40G			in main chassi		4X40G QSFP+ Netmod	INTERP
FPR4K-XNM-6X10LRF			in main chassi		6X10G FTW Netmod, LR-Single	INTERP
FPR4K-XNM-6X10SRF			in main chassi		6X10G FTW Netmod, SR-Multimode	INTERP
FPR4K-XNM-6X25SRF			in main chassi		6X25G FTW Netmod, SR-Multimode	INTERP
FPR4K-XNM-8X10G		Part included	in main chassi	S.	8X10G SFP+ Netmod	INTERP
FPR3K-FAN		Part included	in main chassi	S.	Fan Tray	UUT 5
FPR4200-FAN		Part included	in main chassi	s. Ol	Fan	UUT 5
FPR3K-SLIDE-RAILS		Part included	in main chassi	s.	Slide Rail Kit	UUT 5
FPR4200-SLD-RAILS	1.5	Part included	in main chassi	s	Slide Rail Kit	UUT 5
Type: UCS C220 - Mfr: Cisco System	ns, Inc.				Z ₁	
UCSC-C220-M5	29.8	16.9	1.7	44	M5	UUT 5
SNS-3615-K9	29.8	16.9	SP- 10 55	5 44	Rebrand, Small for ISE app.	INTERP
SNS-3655-K9	29.8	16.9	1.7	44	Rebrand, Medium for ISE app.	INTERP
SNS-3695-K9	29.8	16.9	1.7	44	Rebrand, Large for ISE app.	INTERP
UCSC-C220-M6N	30.0	BY:16.901	namm , ad	Karian 📉	M6N	INTERP
SNS-3715-K9	30.0	16.9	1.7	43	Rebrand, Small for ISE app.	INTERP
SNS-3755-K9	30.0	16.9	1.7	43	Rebrand, Medium for ISE app.	INTERP
SNS-3795-K9	30.0	DA _{16.9}	02/05/2	20243	Rebrand, Large for ISE app.	INTERP
UCSC-C220-M6	30.0	16.9	1.7	43	M6	UUT 5
Type: UCS C220 Parts - Mfr: Cisco S	Systems, In		1 + 1111		0	
UCSC-PSU1-770W		Part included	in main chassi	s.	770W AC power supply	UUT 5
UCSC-PSU1-1050W		Part included	in main chassi	s.	1050W AC power supply	UUT 5
UCSC-RAILB-M4			in main chassi		Rail kit	UUT 5
UCSC-RAIL-M6			in main chassi		Rail kit	UUT 5
Mounting: Mounted within a 4-post	t rack.	90	ALLUIN	Seismic Levels:	$S_{DS} = 2.00g$ for $z/h = 1$ $S_{DS} = 2.50g$ for $z/h = 0$	I _P = 1.5

Construction/Options: Model number uniquely identifies manufacturer, materials, and configuration of subcomponents.

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SPECIAL SEISMIC CERTIFICATION

CISCO SYSTEMS, INC. Networking Equipment

	TABL	E 3. SUBCO	OMPONEN	ITS - 2-Post	Racks	
Model Number	Depth	Dimensions (Width	in) Height	Max. Wt. (lb)	Description / Notes	Basis
Type: Catalyst 8500/8530 - Mfr	-		rioigni	()		
C8530L-8S2X2Y	12.0	17.5	1.7	13		EXTRAP
C8455-G2	12.0	17.5	1.7	13	Rebrand of C8530L-8S2X2Y	EXTRAP
C8530L-8S8X4Y	18.0	17.5	1.7	16		UUT 4
C8475-G2	18.0	17.5	1.7	16	Rebrand of C8530L-8S8X4Y	INTERP
C8500-12X	16.3	17.5	1.7	17		INTERP
C8500L-8S4X	16.3	17.5	c d.7	17		UUT 4
C8530-12X	18.5	17.5R	CQDA	20		INTERP
C8550-G2	18.5	17.5	11/1////1.7	20/	Rebrand o fC8530-12X	INTERP
C8500-12X4QC	18.5	17.5	1.7	21		INTERP
C8570-G2	18.5	17.5	1.7	21	Rebrand of C8530-12X4QC	INTERP
C8530-12X4QC	18.5	17.5	1.7	21	7	UUT 4
Type: Catalyst 8500/8530 Parts		INDIA AMAY I A M AYA X		<u> </u>	12	
PWR-CH1-400WAC	14/11	Part included i	n main chass	sis	400W AC power supply	UUT 4
PWR-CH1-400WDC		Part included i			400W DC power supply	INTERP
PWR-CC1-400WHV		Part included i			400W HVDC power supply	INTERP
PWR-CH1-750WACR		Part included i			750W AC power supply	UUT 4
PWR-CH1-950WDCR		Part included i			950W DC power supply, sim. to 8300	INTERP
C8500L-FAN-1R		Part included i			Fan tray	UUT 4
C8300-RM-19-1R		Part included i	00/0E/		Rack mount kit	UUT 4
C8500L-RM-19-1R		Part included i			Rack mount kit	UUT 4
C8500-ACCKIT-19		Part included i			Accessory kit	UUT 4
Type: Catalyst 9800 - Mfr: Cisc	co Systems, Inc.	T dit illoidded i	in main onasc		Accessory Kit	
CW9800H1	18.4	17.3	1.7	21	\ `\	UUT 4
CW9800H2	18.4	17.3	1.7	21		INTERP
CW9800M	18.4	17.3	1.7	21		INTERP
C9800-40-K9	19.5	17.3		23		UUT 4
C9800-80-K9	20.5	17.3	3.5	32		UUT 4
Type: Catalyst 9800 Parts - Mf			0.0	32		
C9800-AC-750W-R	. i Globb Gyblollio	Part included i	in main chass	eie		UUT 4
C9800-DC-950W		Part included i				UUT 4
C9800-AC-1100W		Part included i				UUT 4
Type: Catalyst 8200/8300/8330	- Mfr: Cisco Syst		iii iiiaiii onasc	313.		
C8200L-1N-4T	11.8		1.7	10		UUT 4
C8200L-1N-41	11.8	17.3	1.7	10		INTERP
C8330-1N1S-4M2X	16.3	17.5	1.7	16		UUT 4
C8375-E-G2	16.3	17.5	1.7	16		INTERP
C8300-1N1S-4T2X	16.3	17.5	1.7	18		UUT 4
C8300-1N1S-4T2X	16.3	17.5	1.7	18		INTERP
C8300-1N13-61 C8300-2N2S-6T	18.5	17.3	3.5	33		INTERP
C8330-2N1S-4M2S	18.5	17.3 17.3	3.5 3.5	33		INTERP
C8355-E-G2	18.5	17.3	3.5	33		INTERP
C8300-2N2S-4T2X	18.5	17.3 17.3	3.5 3.5	33		UUT 4

Notes: Table continues on the next page. Additional notes, information, and seismic parameters are shown at the end of the table.

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SPECIAL SEISMIC CERTIFICATION

CISCO SYSTEMS, INC. Networking Equipment

ד	TABLE 3. SI	JBCOMPONEN	TS - 2	-Post Racks	s (continued)	
Model Number		Dimensions (in)		Max. Wt.	Description / Notes	Basis
Woder Number	Depth	Width F	leight	(lb)	Description / Notes	Dasis
Type: Catalyst 8200/8300/8330 Par	ts - Mfr: Cisco	Systems, Inc.				
C-NIM-8T		Part included in ma	in chass	sis.	8-port 1G RJ45	UUT 4
C-NIM-4X					4-port 1G/10G LAN/WAN	INTERP
C-NIM-8T					8-port 10M/100M/1G LAN/WAN	INTERP
C-NIM-8M					8-port 100M/1G/2.5G LAN/WAN PoE	INTERP
C-NIM-1X					1-port 10-Gbps/1-Gbps WAN	INTERP
C-NIM-2T		200			2-port 100-Mbps/1-Gbps WAN	INTERP
C-NIM-1M		FORCE	JUL	CO	1-port 2.5-Gbps/1-Gbps WAN	INTERP
C8200-RM-19-1R		Part included in ma			Rack mount kit	UUT 4
PWR-CC1-250WAC		Part included in ma			250W AC power supply	UUT 4
PWR-CC1-400WAC	4	Part included in ma		\	400W AC power supply	UUT 4
PWR-CC1-400WHV		Part included in ma	74 A7V V Y X X 7	\ \\\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	400W HVDC power supply	INTERP
C-NIM-1X		Part included in ma	$\cap \Gamma \Gamma$	- —	1-port 10G SFP/SFP+ with MACSec	UUT 4
C8300-RM-19-1R		Part included in ma			Rack mount kit	INTERP UUT 4
PWR-CC1-500WAC		Part included in ma			500W AC power supply	UUT 4
PWR-CC1-400WDC C-NIM-8M		Part included in ma Part included in ma			400W DC power supply	UUT 4
PWR-CC1-650WAC		Part included in ma			8-port 2.5mGig RJ45 650W AC power supply	UUT 4
PWR-CC1-030WAC		Part included in ma			1000W AC power supply	UUT 4
PWR-CC1-650WDC		Part included in ma	INEIG		650W DC power supply	INTERP
PWR-CC1-650WDCR		Part included in ma			650W DC power supply	INTERP
C-SM-40P8M2X		Part included in ma			40-port 1G, 8-port 2.5 mGig Ethernet	UUT 4
C8300-RM-19-2R	150	Part included in ma			Rack mount kit	UUT 4
Type: Catalyst 9300/X/L/LM - Mfr: 0	Cisco Systems				<u> </u>	
C9300LM-48T-4Y	11.9	17.5	1.7	11	Mini 48p Data	EXTRAP
C9300LM-24U-4Y	13.0	17,5	1.7	12	Mini 24p UPoE	EXTRAP
C9300LM-48U-4Y	13.0	17.5	1.7	12	Mini 48p UPoE	EXTRAP
C9300LM-48UX-4Y	13.0	17.5	1.7	12	Mini 48p 8mGig	UUT 4
C9300X-24HX	20.6	17.5	1.7	14	24-port mGig UPoE+	INTERP
C9300X-48HXN	20.6	17.5	1.7	14	48-port, 8xmGig+40x5G 90W UPOE-	INTERP
C9300X-48TX	22.0	17.5	1.7	15	48-port mGig data only	INTERP
C9300X-48HX	22.0	17.5	1.7	15	48-port mGig UPoE+	UUT 4
C9300X-12Y	19.2	17.5	1.7	15	12x25G Fiber Ports	INTERP
C9300X-24Y	20.7	17.5	1.7	16	24x25G Fiber Ports	INTERP
C9300L-24T-4G	19.2	17.5	1.7	15	24p data ,4x1G Uplink	INTERP
C9300L-24T-4X	19.2	17.5	1.7	15	24p data ,4x10G Uplink	INTERP
C9300L-24P-4G	19.2	17.5	1.7	15	24p PoE ,4x1G Uplink	INTERP
C9300L-24P-4X	19.2	17.5	1.7	15	24p PoE ,4x10G Uplink	INTERP
C9300L-48T-4G	19.2	17.5	1.7	15	48p data ,4x1G Uplink	INTERP
C9300L-48T-4X	19.2	17.5	1.7	15	48p data ,4x10G Uplink	INTERP
C9300L-48PF-4G	19.2	17.5	1.7	16	48p Full PoE+ ,4x1G Uplink	UUT 4
C9300L-48PF-4X	19.2	17.5	1.7	16 16	48p Full PoE+ ,4x10G Uplink	INTERP
C9300L-48P-4G	19.2	17.5	1.7	16	48p PoE ,4x1G Uplink	INTERP

Notes: Table continues on the next page. Additional notes, information, and seismic parameters are shown at the end of the table.





SPECIAL SEISMIC CERTIFICATION

CISCO SYSTEMS, INC. Networking Equipment

Model Number						
	Depth	Dimensions (Width	in) Height	Max. Wt. (lb)	Description / Notes	Basis
Type: Catalyst 9300/X/L/LM - Mfr:			_	(ID)		
C9300L-48P-4X	19.2	17.5	1.7	16	48p PoE ,4x10G Uplink	INTERP
						INTERP
C9300L-24UXG-4X	19.2	17.5	1.7	16	24p, 8mGig ,4x10G Uplink	
C9300L-24UXG-2Q	19.2	17.5	1.7	16	24p, 8mGig ,2x40G Uplink	INTERP INTERP
C9300L-48UXG-4X	19.2	17.5	1.7	17	48p, 12mGig ,4x10G Uplink	INTERP
C9300L-48UXG-2Q	19.2	17.5	1.7	17	48p, 12mGig ,2x40G Uplink	
C9300-24UB	19.2	17.5	CQDE	17	24-port UPOE	INTERP
C9300-24H	19.2	17.5	CUDE	17	24-port UPOE+	INTERP
C9300-24S	20.7	17.5	1.7	17	24-port Fiber	INTERP
C9300-48UB	19.2	17.5	1.7	17	48-port UPOE Deep Buffer	INTERP
C9300-48H	19.2	17.5	1.7	17	48-port UPoE+	INTERP
C9300-48S	20.7	17.5	1.7	17	48-port Fiber	INTERP
C9300-24UXB	20.2	17.5	1.7	18	24p mGig, UPOE	INTERP
C9300-24UX	20.2	17.5	SP-1955	5 18	24 <mark>-port</mark> mGig and UPOE	INTERP
C9300-48UXM	22.2	17.5	1.7	20	48-port(12 mGig&36 2.5Gbps)	INTERP
C9300-48UN	22.2	17.5	1.7	20	48-port of 5Gbps	UUT 4
Type: Catalyst 9300/X/L/LM Parts	- Mfr: Cisco Sy	stems, Inc.	ammad	Karım		
C9300-NM-8X	V///////	Part included i	n main chass	is.	8x 10G/1G Network Module	UUT 4
C9300X-NM-8M		Part included i	n main chass	is.	8x 10G/1G Multigigabit Network Mod	INTERP
C9300X-NM-2C		Part included i	n main chass	is)/25	2x 100G/40G Network Module	INTERP
C9300X-NM-4C	/Z/Whi	Part included i	n main chass	is.	4x 100G/40G Network Module	INTERP
C9300-NM-4G		Part included i	n main chass	is.	4x 1G Network Module	INTERP
C9300-NM-4M		Part included i	n main chass	is.	4x Multigigabit Network Module	INTERP
C9300-NM-2Q		Part included i	n main chass	is.	2x 40G Network Module	INTERP
C9300-NM-2Y	4	Part included i	n main chass	is.	2x 25G/10G/1G Network Module	INTERP
C9300X-NM-8Y	I	Part included i	n main chass	is.	8x 10G/25G Network Module SFP+	UUT 4
FAN-T2	ı	Part included i	n main chass	is.	Fan module	UUT 4
ACC-KIT-T1	ſ	Part included i	n main chass	is.	Accessory kit	UUT 4
PWR-C1-350WAC-P	ſ	Part included i	n main chass	is.	350W AC power supply	INTERP
PWR-C6-600WAC		Part included i			600W AC power supply	UUT 4
PWR-C1-715WDC	ı	Part included i	n main chass	is.	715W DC power supply	INTERP
PWR-C6-715WDC		Part included i			715W DC power supply	INTERP
PWR-C1-715WAC-P		Part included i			715W AC power supply	UUT 4
PWR-C6-1KWAC	_	Part included i			1000W AC power supply	UUT 4
PWR-C1-1100WAC-P		Part included i			1100W AC power supply	UUT 4
PWR-C1-1900WAC-P		Part included i			1900W AC power supply	UUT 4
Type: Catalyst 9500/X - Mfr: Cisco		art irioidaca i	ii iiiaiii ciiass	13.	1300W AO power supply	
C9500-24Y4C	18.0	17.5	1.7	21		EXTRAP
C9500-32QC	18.0	17.5	1.7	22		EXTRAP
						UUT 4
C9500-48Y4C	18.0	17.5	1.7	22		INTERP
C9500-16X	21.5	17.5	1.7	24		UUT 4
C9500-32C	21.2	17.5	1.7	26		UUT 4
C9500X-60L4D C9500X-28C8D	21.8 21.8	17.5 17.5	1.7 1.7	28 29		UUT 4

Notes: Table continues on the next page. Additional notes, information, and seismic parameters are shown at the end of the table.





SPECIAL SEISMIC CERTIFICATION

CISCO SYSTEMS, INC. Networking Equipment

TABLE 3. SUBCOMPONENTS - 2-Post Racks (continued)									
Model Number	Di Depth	mensions (i Width	n) Height	Max. Wt. (lb)	Description / Notes	Basis			
Type: Catalyst 9500/X Parts - Mfr: Cis	co Systems,	Inc.							
C9K-PWR-650WACL-R	P	art included ir	n main chass	is.	650W AC power supply	UUT 4			
C9K-PWR-650WAC-R	P	art included ir	n main chass	is.	650W AC power supply	INTERP			
C9K-PWR-930WDC-R	P	Part included in main chassis.			930W DC power supply	UUT 4			
C9K-PWR-1500WAC-F	P	Part included in main chassis.			1500W AC power supply	UUT 4			
C9K-PWR-1500WDC-F	P	Part included in main chassis.			1500W DC power supply	UUT 4			
C9K-PWR-1500WAC	P	Part included in main chassis.			1500W AC power supply	UUT 4			
C9K-PWR-1500WDC	P	art included in	n main chass	is	1500W DC power supply	INTERP			
C9K-PWR-1600WDC-R	P	art included in	n main chass	is. O/	1600W DC power supply	UUT 4			
C9K-PWR-1600WAC-R	P	art included ir	n main chass	is.	1600W AC power supply	UUT 4			
C9500X-FAN-1U-F	P	art included in	n main chass	is.	Fan module	UUT 4			
C9500X-FAN-1U-R	/ P	art included in	n main chass	is.	Fan module	UUT 4			
C9K-T2-FANTRAY	P	art included in	n main chass	is.	Fan tray	UUT 4			
C9K-T1-FANTRAY	2/ P	art included in	n main chass	is.	Fan tray	UUT 4			
Mounting: Mounted within a 2-post	rack.			Seismic Levels:	$S_{DS} = 2.00g$ for z/h = 1 $S_{DS} = 2.50g$ for z/h = 0	I _P = 1.5			

Construction/Options: Model number uniquely identifies manufacturer, materials, and configuration of subcomponents.



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SPECIAL SEISMIC CERTIFICATION

UUT 1

Manufacturer: Cisco Systems, Inc. Model number: Nexus 9504 Custom Unit function: Networking Equipment

Serial number: N/A

Dimensions (in)			Weight	Res	. Freq.	(Hz)
Depth	Width	Height	(lb)	F-B	S-S	V
36.0	24.0	84.0	944	14.0	4.9	21.4

Code & criteria: 2022 CBC, ICC-ES AC156 Test laboratory: Element Newark (NTS)

Report: 18012TR1.1 (dated 4-11-18), tested on 3-14-18

$S_{DS}(g)$	z/h	$A_{FLX-H}(g)$	$A_{RIG-H}(g)$	$A_{FLX-V}(g)$	A _{RIG-V} (g)
2.00	1.00	3.20	2.40	1.68	0.68
2.50	0.00	3.20	2.40	1.00	0.00

Importance Factor, I_P = 1.5: Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Mounting: Rigid base mounted with (4) total 1/2-in A574 bolts through 1/4-in thick plate washers. Networking equipment is rigid

mounted to the four-post rack.

Construction: Welded carbon steel four post rack (Telect DR1250-84436).

Subcomponents: Cisco Systems, Inc. - Nexus 9504 (N9K-C9504), Cisco Systems, Inc. - Nexus 9504 Parts (N9K-C9504-FM-E, N9K-C9504-FM-E), N9K-C9504-FM-E, N9K-C950

FAN, N9K-SC-A, N9K-SUP-B, N9K-PAC-3000W-B, N9K-X9732C-EX, QSFP-40G-SR-BD, GLC-TE, SFP-10G-SR), Cisco Systems, Inc. - Catalyst 6807 (C6807-XL-), Cisco Systems, Inc. - Catalyst 6807 Parts (C6807-XL-FAN, C6800-SUP6T, SFP-10G-SR, QSFP-40G-SR-BD, C6800-32P10G, C6800-XL-3KW-AC), Cisco Systems, Inc. - Catalyst 3650 (C1-WS3650-48TQ/K9), Cisco Systems, Inc. - Catalyst 3650 Parts (S3650UK9-163, PWR-C2-1025WAC/2, PWR-C2-250WAC, C3650-STACK-KIT, C3650-STACK, STACK-T2-1M), Cisco Systems, Inc. - ASR 1002 (ASR1002-HX), Cisco Systems, Inc. - ASR 1002 Parts (SFP-10G-SR, GLC-TE, ASR1002HX-IPSECHW, ASR1000X-AC-750W, EPA-10X10GE), Cisco Systems, Inc. - Firepower 4120/4140 (FPR4120-NGFW-K9, FPR4140-NGFW-K9), Cisco Systems, Inc. - Firepower 4120/4140 Parts (FPR4K-PWR-AC-1100, SFP-10G-SR, FPR4K-SSD200, FPR4K-SSD-BBLKD, GLC-TE, FPR4K-FAN, FPR4K-FAN, SFP-10G-SR, FPR4K-PWR-AC-1100, SFP-10G-SR, FPR4K-SSD400, FPR4K-SSD-BBLKD, GLC-TE, FPR4K-FAN,

FPR4K-PWR-AC-1100, FPR4K-NM-4X40G, QSFP-40G-SR4).

Testing notes: Height to center of gravity (Hcg) = 37.0-in.



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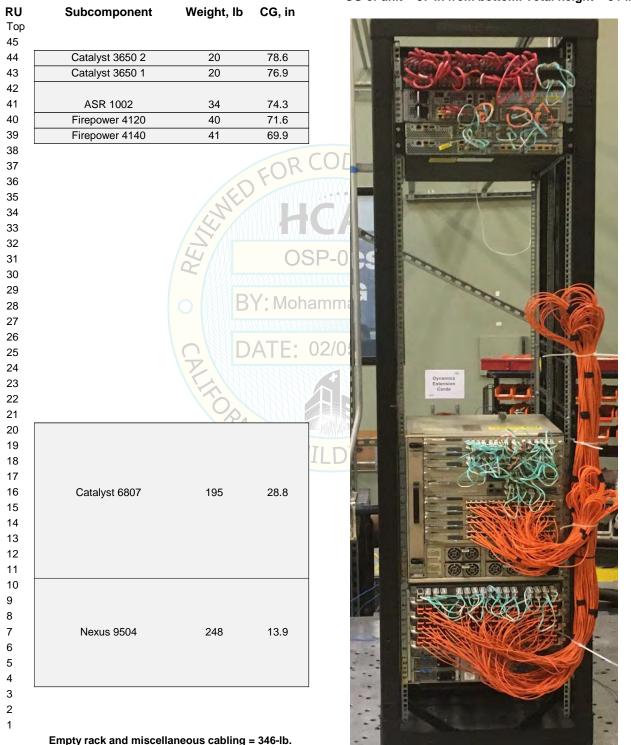




SPECIAL SEISMIC CERTIFICATION

UUT 1 - RACK CONFIGURATION

CG of unit = 37-in from bottom. Total height = 84-in.







SPECIAL SEISMIC CERTIFICATION

UUT 2

Manufacturer: Cisco Systems, Inc. Model number: Catalyst 9000 Custom Unit function: Networking Equipment

Serial number: N/A

Dimensions (in)			Weight	Res	. Freq.	(Hz)
Depth	Width	Height	(lb)	F-B	S-S	V
36.0	24.0	84.0	791	12.7	4.9	24.2

Code & criteria: 2022 CBC, ICC-ES AC156 Test laboratory: Element Newark (NTS)

Report: 18012TR1.1 (dated 4-11-18), tested on 3-14-18

$S_{DS}(g)$	z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	$A_{FLX-V}(g)$	$A_{RIG-V}(g)$
2.00	1.00	3.20	2.40	1.68	0.68
2.50	0.00	3.20	2.40	1.00	0.00

Importance Factor, I_P = 1.5: Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Mounting: Rigid base mounted with (4) total 1/2-in A574 bolts through 1/4-in thick plate washers. Networking equipment is rigid

mounted to the four-post rack.

Construction: Welded carbon steel four post rack (Telect DR1250-84436).

Subcomponents: Cisco Systems, Inc. - Catalyst 9300 (C9300-24T, C9300-48U), Cisco Systems, Inc. - Catalyst 9300 Parts (C9300-NM-4G,

C9300-NM-8X, GLC-SX-MM-RGD, SFP-10G-SR), Cisco Systems, Inc. (continued) - Catalyst 9300 Parts (PWR-C1-350WAC, PWR-C1-1100WAC, FAN-T2), Cisco Systems, Inc. - Catalyst 9400 (C9407R, C9410R), Cisco Systems, Inc. - Catalyst 9400 Parts (C9400-LC-24XS, C9400-LC-48U, C9400-SUP-1, SFP-10G-SR, SFP-10G-SR-X, QSFP-40G-SR4, C9410-FAN, C9407-FAN, C9410-ACC-KIT, C9407-ACC-KIT, C9410-RACK-KIT, C9407-RACK-KIT, C9407-S-BLANK, C9400-PWR-3200AC), Cisco Systems, Inc. - Catalyst 9500 (C9500-24Q, C9500-40X), Cisco Systems, Inc. - Catalyst 9500 Parts (C9500-NM-8X, C9500-NM-2Q, QSFP-H40G-AOC3M), Cisco Systems, Inc. (continued) - Catalyst 9500 Parts (QSFP-H40G-AOC3M), Cisco Systems, Inc. (continued) - Catalyst 9500 Parts (QSFP-H40G-AOC3M), Cisco Systems, Inc. (continued) - Catalyst 9500 Parts (QSFP-H40G-AOC3M), Cisco Systems, Inc. (continued) - Catalyst 9500 Parts (QSFP-H40G-AOC3M), Cisco Systems, Inc. (continued) - Catalyst 9500 Parts (QSFP-H40G-AOC3M), Cisco Systems, Inc. (continued) - Catalyst 9500 Parts (QSFP-H40G-AOC3M), Cisco Systems, Inc. (continued) - Catalyst 9500 Parts (QSFP-H40G-AOC3M), Cisco Systems, Inc. (continued) - Catalyst 9500 Parts (QSFP-H40G-AOC3M), Cisco Systems, Inc. (continued) - Catalyst 9500 Parts (QSFP-H40G-AOC3M), Cisco Systems, Inc. (continued) - Catalyst 9500 Parts (QSFP-H40G-AOC3M), Cisco Systems, Inc. (continued) - Catalyst 9500 Parts (QSFP-H40G-AOC3M), Cisco Systems, Inc. (continued) - Catalyst 9500 Parts (QSFP-H40G-AOC3M), Cisco Systems, Inc. (continued) - Catalyst 9500 Parts (QSFP-H40G-AOC3M), Cisco Systems, Inc. (continued) - Catalyst 9500 Parts (QSFP-H40G-AOC3M), Cisco Systems, Inc. (continued) - Catalyst 9500 Parts (QSFP-H40G-AOC3M), Cisco Systems, Inc. (continued) - Catalyst 9500 Parts (QSFP-H40G-AOC3M), Cisco Systems, Inc. (continued) - Catalyst 9500 Parts (QSFP-H40G-AOC3M), Cisco Systems, Inc. (continued) - Catalyst 9500 Parts (QSFP-H40G-AOC3M), Cisco Systems, Inc. (continued) - Catalyst 9500 Parts (QSFP-H40G-AOC3M), Cisco Systems, Inc. (continued) - Catalyst 9500 Parts (QSFP-H40G-AOC3M), Cisco

40G-SR4, SFP-10G-SR, FAN-T4-R, PWR-C4-950WAC-R, C9500-ACC-KIT-19I, C9500-4PT-KIT).

PNIA BUILDING CODY

Testing notes: Height to center of gravity (Hcg) = 41.6-in.



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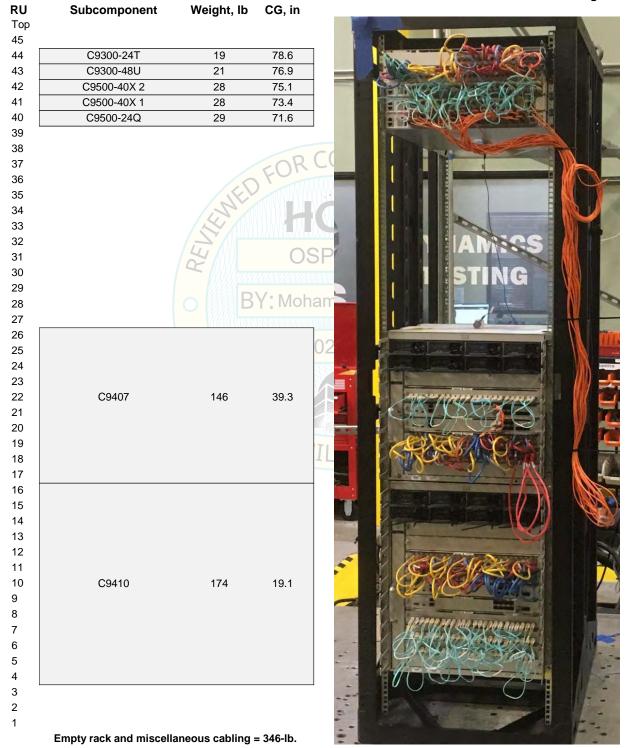




SPECIAL SEISMIC CERTIFICATION

UUT 2 - RACK CONFIGURATION

CG of unit = 41.6-in from bottom. Total height = 84-in.



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SPECIAL SEISMIC CERTIFICATION

UUT 3

Manufacturer: Cisco Systems, Inc. Model number: Catalyst 9600 Custom Unit function: Networking Equipment

Serial number: N/A

Dimensions (in)			Weight	Res	s. Freq.	(Hz)
Depth	Width	Height	(lb)	F-B	S-S	V
36.0	24.0	84.0	789	15.6	5.8	22.0

Code & criteria: 2022 CBC, ICC-ES AC156 Test laboratory: Element Newark (NTS)

Report: 20122TR1.0 (dated 7-2-21), tested on 6-30-21

S _{DS} (g)	z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	$A_{FLX-V}(g)$	A _{RIG-V} (g)
2.00	1.00	3.20	2.40	1.68	0.68
2.50	0.00	3.20	2.40	1.00	0.00

Importance Factor, $I_P = 1.5$: Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Mounting: Rigid base mounted with (4) total 1/2-in A574 bolts through 1/4-in thick plate washers. Networking equipment is rigid

mounted to the four-post rack.

Construction: Welded carbon steel four post rack (Telect DR1250-84436).

Subcomponents: Cisco Systems, Inc. - Catalyst 9600 (C9606R), Cisco Systems, Inc. - Catalyst 9600 Parts (C9600-LC-24C), Cisco Systems,

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Inc. (continued) - Catalyst 9600 Parts (C9600-LC-48TX, C9600-LC-48YL, C9606-FAN, C9600-SUP-1, SFP-10G-SR, SFP-25G-SR-S, QSFP-H40G-AOC3M, QSFP-100G-SR4-S, QSFP-40/100-SRBD, C9606-SLOT-BLANK, C9600-PWR-2KWDC,

C9600-PWR-2KWAC).

Testing notes: Height to center of gravity (Hcg) = 43.5-in.



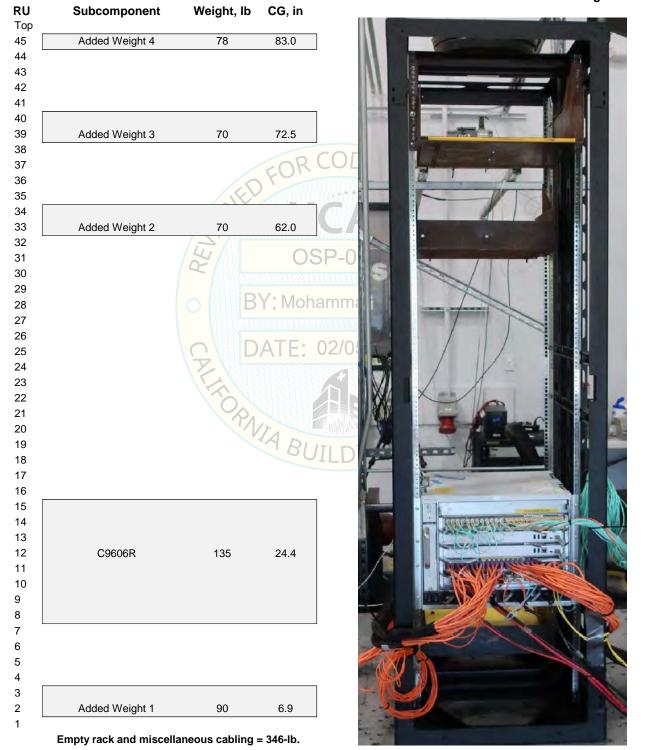




SPECIAL SEISMIC CERTIFICATION

UUT 3 - RACK CONFIGURATION

CG of unit = 43.5-in from bottom. Total height = 84-in.







SPECIAL SEISMIC CERTIFICATION

UUT 4

Manufacturer: Cisco Systems, Inc.

Model number: 2-Post Custom 4

Unit function: Networking Equipment

Serial number: N/A

Dimensions (in)			Weight	Res	. Freq.	(Hz)
Depth	Width	Height	(lb)	F-B	S-S	V
15.0	24.0	84.0	776	10.3	5.9	>33

Code & criteria: 2022 CBC, ICC-ES AC156 Test laboratory: Cisco Systems, Inc.

Report: 24103TR1.1 (dated 2-4-25), tested on 12-17-24

S _{DS} (g)	z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	$A_{FLX-V}(g)$	A _{RIG-V} (g)
2.00	1.00	3.20	2.40	1.68	0.68
2.50	0.00	3.20	2.40	1.00	0.00

Importance Factor, $I_P = 1.5$: Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Mounting: Rigid base mounted with (4) total 1/2-in A574 bolts through 1/4-in thick plate washers. Networking equipment is rigid

mounted to the two-post rack.

Construction: Welded carbon steel two-post rack (Chatsworth SeismicFrame 13855-703).

Subcomponents: Cisco Systems, Inc. - Catalyst 8500/8530 (C8530L-8S8X4Y, C8500L-8S4X, C8530-12X4QC), Cisco Systems, Inc. -

Catalyst 8500/8530 Parts (PWR-CH1-400WAC, PWR-CH1-750WACR, C8500L-FAN-1R, C8300-RM-19-1R, C8500L-RM-19-1R, C8500-ACCKIT-19), Cisco Systems, Inc. - Catalyst 9800 (GW9800H1, C9800-40-K9, C9800-80-K9), Cisco Systems, Inc. - Catalyst 9800 Parts (C9800-AC-750W-R, C9800-DC-950W, C9800-AC-1100W), Cisco Systems, Inc. - Catalyst 8200/8300/8330 (C8200L-1N-4T, C8330-1N1S-4M2X, C8300-1N1S-4T2X, C8300-2N2S-4T2X), Cisco Systems, Inc. - Catalyst 8200/8300/8330 Parts (C-NIM-8T, C8200-RM-19-1R, PWR-CC1-250WAC, PWR-CC1-400WAC, C-NIM-1X, PWR-CC1-500WAC, PWR-CC1-400WDC, C-NIM-8M, PWR-CC1-650WAC, PWR-CC1-1000WAC, C-SM-40P8M2X, C8300-RM-19-2R), Cisco Systems, Inc. - Catalyst 9300/X/L/LM (C9300LM-48UX-4Y, C9300X-48HX, C9300L-48PF-4G), Cisco Systems, Inc. (continued) - Catalyst 9300/X/L/LM (C9300-48UN), Cisco Systems, Inc. - Catalyst 9300/X/L/LM Parts (C9300-NM-8X, C9300X-NM-8Y, FAN-T2, ACC-KIT-T1, PWR-C6-600WAC, PWR-C1-715WAC-P, PWR-C6-1KWAC, PWR-C1-1100WAC-P, PWR-C1-1900WAC-P), Cisco Systems, Inc. - Catalyst 9500/X (C9500-48Y4C, C9500-32C, C9500X-60L4D, C9500X-28C8D), Cisco Systems, Inc. - Catalyst 9500/X Parts (C9K-PWR-650WACL-R, C9K-PWR-930WDC-R, C9K-PWR-1500WDC-F, C9K-PWR-1500WDC-F, C9K-PWR-1500WDC-R, C9K-PWR-1600WDC-R, C9K-PWR-

C9500X-FAN-1U-F, C9500X-FAN-1U-R, C9K-T2-FANTRAY, C9K-T1-FANTRAY).

Testing notes: Height to center of gravity (Hcg) = 54.7-in.

Testing at the manufacturer's lab meets the requirements of PIN 58 Item #21. See test report.



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SPECIAL SEISMIC CERTIFICATION

UUT 4 - RACK CONFIGURATION

				С
RU	Subcomponent	Weight, Ib	CG, in	
Top	Added Weight 2	100	87.7	
45				
44				,
43	C9500X-60L4D	32	79.8	
42	C8500L-8S4X	17	78.0	
41	C8200L-1N-4T	10	76.3	
40	C8530-12X4QC	22	74.5	
39				1
38	CW9800H1	21	71.0	COL
37	C9300-48UN	25	69.3	COL
36				XXXXXXX
35	C9800-80-K9	34	66.7	
34	C9500X-28C8D	32	64.0	
33	C9800-40-K9	23	62.3	
32				
31	C8300-1N1S-4T2X	18	58.8	5P-0
30			XXXXXXXXXXX	
29	C8330-1N1S-4M2X	17	55.3	
28	C9500-32C	30	53.5	amma
27				
26	C8300-2N2S-4T2X	35	50.9	00/05
25			AIE.	02/03
24	C9300LM-48UX-4Y	15	46.5	
23				
22	C9300L-48PF-4G	19	43.0	
21		PA		
20			7	
19	C9500-48Y4C	25	37.8	TIDI
18	C9300X-48HX	24	36.0	1101
17	C8530L-8S8X4Y	17	34.3	
16				
15				
14				
13				
12				
11				1
10	Added Weight 1	100	22.0	
9				
8				
7				
6				

Empty rack and miscellaneous cabling = 160-lb.

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SPECIAL SEISMIC CERTIFICATION

UUT 5

Manufacturer: Cisco Systems, Inc. Model number: 4-Post Custom 5 Unit function: Networking Equipment

Serial number: N/A

Dimensions (in)			Weight	Res	. Freq.	(Hz)
Depth	Width	Height	(lb)	F-B	S-S	V
36.0	24.0	84.0	980	11.8	4.6	>33

Code & criteria: 2022 CBC, ICC-ES AC156 Test laboratory: Cisco Systems, Inc.

Report: 24103TR1.1 (dated 2-4-25), tested on 12-17-24

S _{DS} (g)	z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	$A_{FLX-V}(g)$	A _{RIG-V} (g)
2.00	1.00	3.20	2.40	1.68	0.68
2.50	0.00				

Importance Factor, I_P = 1.5: Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Mounting: Rigid base mounted with (4) total 1/2-in A574 bolts through 1/4-in thick plate washers. Networking equipment is rigid

mounted to the four-post rack.

Construction: Welded carbon steel four-post rack (Telect DR1250-84436).

Subcomponents: Cisco Systems, Inc. - Catalyst 8500 (C8500-20X6C), Cisco Systems, Inc. - Catalyst 8500 Parts (PWR-CH1-1100WAC,

C8500-FAN-3R), Cisco Systems, Inc. - Secure Firewall 3100/4200 (FPR-3105, FPR-3140, FPR-4215, FPR-4245), Cisco Systems, Inc. - Secure Firewall 3100/4200 Parts (FPR3K-PWR-AC-400, PWR-CC1-400WDC, FPR4200-PWR-AC, FPR3K-SSD900, FPR4200-SSD1800, FPR3K-XNM-8X10G, FPR4K-XNM-6X25LRF, FPR4K-XNM-8X1GF, FPR4K-XNM-4X200G, FPR4K-XNM-8X25G), Cisco Systems, Inc. (continued) - Secure Firewall 3100/4200 Parts (FPR3K-FAN, FPR4200-FAN, FPR3K-SLIDE-RAILS, FPR4200-SLD-RAILS), Cisco Systems, Inc. - UCS C220 (UCSC-C220-M5, UCSC-C220-M6), Cisco

Systems, Inc. - UCS C220 Parts (UCSC-PSU1-770W, UCSC-PSU1-1050W, UCSC-RAILB-M4, UCSC-RAIL-M6).

Testing notes: Height to center of gravity (Hcg) = 46.4-in.

Testing at the manufacturer's lab meets the requirements of PIN 58 Item #21. See test report.

PNIA BUILDING CO



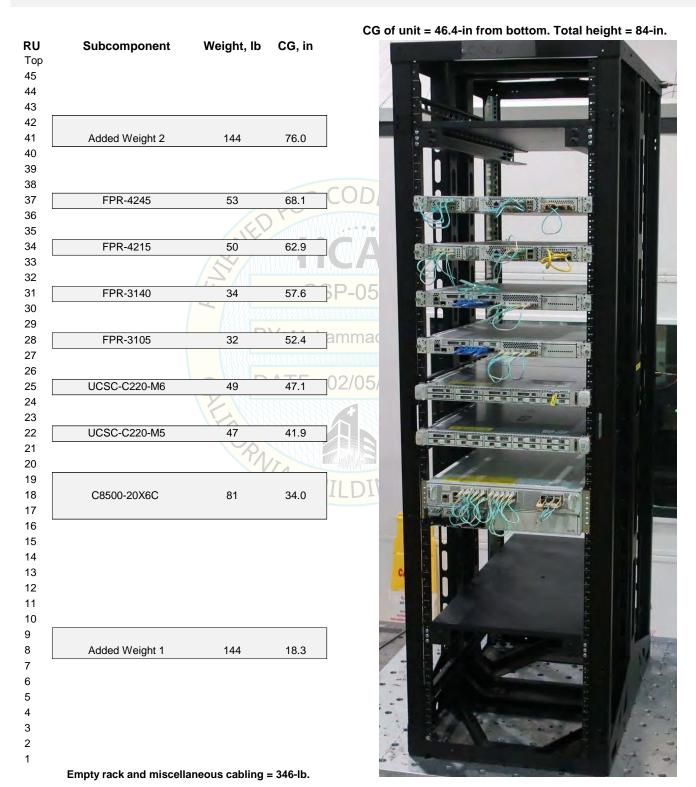
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SPECIAL SEISMIC CERTIFICATION

UUT 5 - RACK CONFIGURATION



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