



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION  
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI SPECIAL SEISMIC  
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0552

HCAI Special Seismic Certification Preapproval (OSP)

Type:  New  Renewal

Manufacturer Information

Manufacturer: Distech Controls

Manufacturer's Technical Representative: Davish Adjodhya

Mailing Address: 4205 Place de Java, Brossard, QC J4Y0C4 Canada

Telephone: (450) 444-9898

Email: dadjodhya@distech-controls.com

Product Information

Product Name: Industrial Control Panels

Product Type: HVAC Control Panels

Product Model Number: Temperature Control Panels

General Description: Wall mounted temperature control panels in a carbon steel enclosure consisting of controllers, transformers, power supply, relays, and network connectivity parts.

Mounting Description: Rigid, Wall Mounted

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: Manwill Engineering LLC

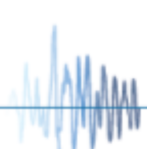
Contact Person: Derek Manwill

Mailing Address: PO Box 1194, Bend, OR 97709

Telephone: (541) 241-2102

Email: derek@manwillse.com

Title: President





**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION  
FACILITIES DEVELOPMENT DIVISION**

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

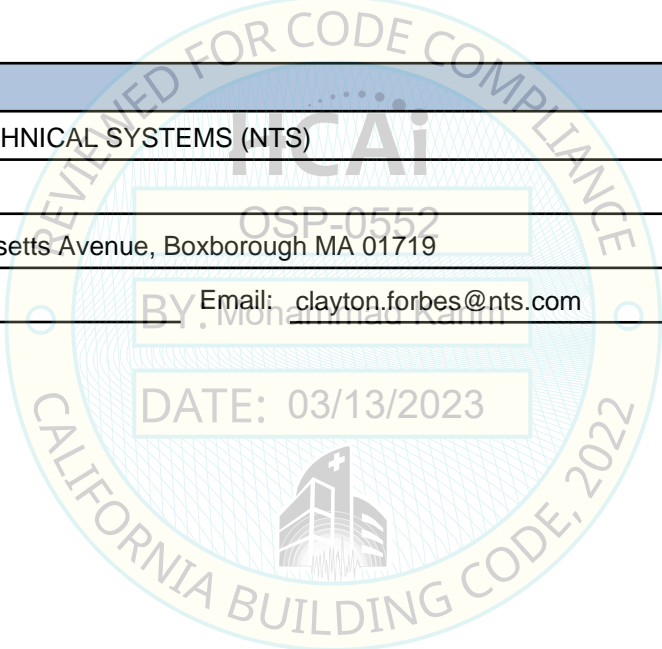
Company Name: MANWILL ENGINEERING LLC  
Name: Derek Manwill California License Number: S6266  
Mailing Address: PO Box 1194, Bend, OR 97709  
Telephone: (541) 241-2102 Email: derek@manwillse.com

**Certification Method**

GR-63-Core       ICC-ES AC156       IEEE 344       IEEE 693       NEBS 3  
 Other (Please Specify): \_\_\_\_\_

**Testing Laboratory**

Company Name: NATIONAL TECHNICAL SYSTEMS (NTS)  
Contact Person: Clayton Forbes  
Mailing Address: 1146 Massachusetts Avenue, Boxborough MA 01719  
Telephone: (978) 266-1001 Email: clayton.forbes@nts.com





**DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION  
FACILITIES DEVELOPMENT DIVISION**

**Seismic Parameters**

Design Basis of Equipment or Components ( $F_p/W_p$ ) = 1.56

SDS (Design spectral response acceleration at short period, g) = 2.08

$a_p$  (Amplification factor) = 2.5

$R_p$  (Response modification factor) = 6.0

$\Omega_0$  (System overstrength factor) = 2.0

$I_p$  (Importance factor) = 1.5

$z/h$  (Height ratio factor) = 1

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

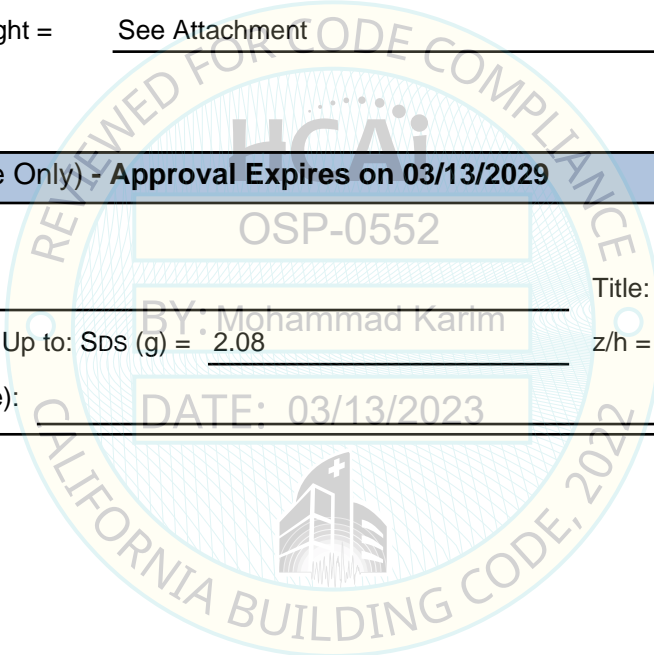
**HCAI Approval (For Office Use Only) - Approval Expires on 03/13/2029**

Date: 3/13/2023

Name: Mohammad Karim Title: Supervisor, Health Facilities

Special Seismic Certification Valid Up to: SDS (g) = 2.08 z/h = 1

Condition of Approval (if applicable): DATE: 03/13/2023



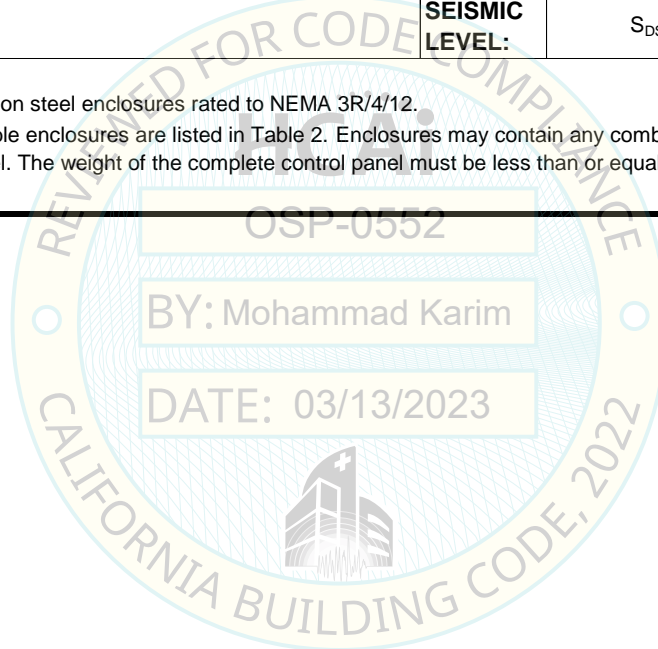
## ATTACHMENT 1: CERTIFIED COMPONENTS

## SPECIAL SEISMIC CERTIFICATION

**TABLE 1**

DOCUMENT NO.: 23022CR1.0

MANUFACTURER: DISTECH CONTROLS						
PRODUCT FAMILY: TEMPERATURE CONTROL PANELS						
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS
	DEPTH	WIDTH	HEIGHT			
<b>Temperature Control Panels (custom)</b>						
CUSTOM-1418N4B6	6	12	16	27		EXTRAP
...					Extrapolated sizes	EXTRAP
CUSTOM-1418N4M8	8	30	36	121		UUT 1
...					Interpolated sizes	INTERP
CUSTOM-1418N4S8	8	36	48	207		UUT 2
<b>MOUNTING:</b> Rigid wall mounted.				<b>SEISMIC LEVEL:</b>	$S_{DS} = 2.08g$ for $z/h = 1$ $I_p = 1.5$	
<b>NOTES:</b>						
<b>Product Construction:</b> 14GA carbon steel enclosures rated to NEMA 3R/4/12.						
<b>Options/Subcomponents:</b> Available enclosures are listed in Table 2. Enclosures may contain any combination of subcomponents listed in Table 3 to create a complete control panel. The weight of the complete control panel must be less than or equal to the maximum weight listed for the selected enclosure in Table 2.						



## ATTACHMENT 1: CERTIFIED SUBCOMPONENTS

## SPECIAL SEISMIC CERTIFICATION

### TABLE 2 - ENCLOSURES

DOCUMENT NO.: 23022CR1.0

MANUFACTURER: DISTECH CONTROLS						
PRODUCT FAMILY: TEMPERATURE CONTROL PANELS						
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS
	DEPTH	WIDTH	HEIGHT			
<b>Subcomponent: Enclosure - Manufacturer: Hammond Manufacturing - Material: Carbon Steel</b>						
1418N4B6	6	12	16	27		EXTRAP
1418N4G6	6	16	16	34		EXTRAP
1418N4CR6	6	20	16	41		EXTRAP
1418N4C6	6	16	20	40		EXTRAP
1418N4D6	6	20	20	40		EXTRAP
1418N4AR6	6	12	24	41		EXTRAP
1418N4H6	6	16	24	42		EXTRAP
1418N4E6	6	20	24	56		EXTRAP
1418N4J6	6	24	24	65		EXTRAP
1418N4F6	6	20	30	70		EXTRAP
1418N4K6	6	24	30	80		EXTRAP
1418N4L6	6	24	36	91		EXTRAP
1418N4B8	8	12	16	29		EXTRAP
1418N4C8	8	16	20	44		EXTRAP
1418N4D8	8	20	20	51		EXTRAP
1418N4ER8	8	24	20	55		EXTRAP
1418N4E8	8	20	24	60		EXTRAP
1418N4J8	8	24	24	70		EXTRAP
1418N4KR8	8	30	24	74		EXTRAP
1418N4F8	8	20	30	79		EXTRAP
1418N4K8	8	24	30	88		EXTRAP
1418N4KK8	8	30	30	106		EXTRAP
1418N4L8	8	24	36	101		EXTRAP
1418N4M8	8	30	36	121		UUT 1
1418N4O8	8	30	42	132		INTERP
1418N4P8	8	36	42	177		INTERP
1418N4S8	8	36	48	207		UUT 2
<b>MOUNTING:</b> Rigid wall mounted.				<b>SEISMIC LEVEL:</b>	$S_{DS} = 2.08g$ for $z/h = 1$	$I_p = 1.5$
<b>NOTES: Construction/Options:</b> Model number uniquely identifies manufacturer, materials, and configuration of subcomponents.						

## ATTACHMENT 1: CERTIFIED SUBCOMPONENTS

## SPECIAL SEISMIC CERTIFICATION

### TABLE 3 - SUBCOMPONENTS

DOCUMENT NO.: 23022CR1.0

MANUFACTURER: DISTECH CONTROLS						
PRODUCT FAMILY: TEMPERATURE CONTROL PANELS						
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS
	DEPTH	WIDTH	HEIGHT			
<b>Subcomponent: Transformers - Manufacturer: Functional Devices</b>						
TR20VA001	2.2	1.9	2.6	1.3	20VA, 120-24V	EXTRAP
TR20VA002	2.3	1.9	2.6	1.4	20VA, 208-24V	EXTRAP
TR20VA003	2.3	1.9	2.6	1.4	20VA, 24-24V	EXTRAP
TR20VA004	2.3	1.9	2.6	1.4	20VA, 277/240/208/120-24V	EXTRAP
TR20VA007	2.3	1.9	2.6	1.3	20VA, 277-24V	EXTRAP
TR40VA001	2.6	2.2	2.9	2.0	40VA, 120-24V	EXTRAP
TR40VA001US	2.4	2.2	2.9	1.8	40VA, 120-24V	EXTRAP
TR40VA002	2.6	2.2	2.9	2.0	40VA, 120-24V	EXTRAP
TR40VA002US	2.4	2.2	2.9	1.8	40VA, 120-24V	EXTRAP
TR40VA003	2.7	2.2	2.9	2.0	40VA, 24-24V	EXTRAP
TR40VA004	2.6	2.2	2.9	2.1	40VA, 277/240/208/120-24V	EXTRAP
TR40VA013	3.3	2.5	3.0	2.6	40VA, 208/240/277/480-120Vac	EXTRAP
TR40VA015	2.6	2.2	2.9	2.3	40VA, 120/208/240-24V	EXTRAP
TR40VA022	2.7	2.2	2.9	2.1	40VA, 120-24V	EXTRAP
TR40VA040	2.7	2.2	2.9	2.3	40VA, 120/208/240-24V	EXTRAP
TR50VA001	2.7	2.2	2.9	2.1	50VA, 120-24V	EXTRAP
TR50VA001US	2.8	2.2	2.9	2.2	50VA, 120-24V	EXTRAP
TR50VA002	2.7	2.2	2.9	2.2	50VA, 120-24V	EXTRAP
TR50VA003	2.7	2.2	2.9	2.2	50VA, 208/240-24V	EXTRAP
TR50VA004	3.5	2.5	3.0	2.8	50VA, 480/277/240/120-24V	EXTRAP
TR50VA005	3.5	2.5	3.0	2.7	50VA, 120-24V	EXTRAP
TR50VA006	2.8	2.2	2.9	2.2	50VA, 277-24V	EXTRAP
TR50VA007	2.7	2.2	2.9	2.2	50VA, 277-24V	EXTRAP
TR50VA008	3.4	2.5	3.0	2.9	50VA, 208/240/277/480-120Vac	EXTRAP
TR50VA009	3.4	2.5	3.0	2.8	50VA, 120/208/240-24Vac	UUT 2
TR50VA014	3.5	2.5	3.0	2.7	50VA, 277V-24V	INTERP
TR50VA015	3.4	2.5	3.0	2.8	50VA, 480/277/240/208/120-24V	INTERP
TR50VA016	3.3	2.5	3.0	2.8	50VA, 240/208/120-24V	INTERP
TR50VA017	3.5	2.5	3.0	2.8	50VA, 480/277/208-24V	INTERP
TR50VA018	3.5	4.1	4.1	3.3	50VA, 480/277/240/208-120V	INTERP
TR50VA019	2.5	2.2	2.9	2.0	50VA, 277/120V-24	INTERP
TR75VA001	3.7	2.5	3.0	3.6	75VA, 120-24V	INTERP
TR75VA002	3.9	2.5	3.0	3.6	75VA, 120-24V	INTERP
TR75VA003	3.9	2.5	3.0	3.6	75VA, 277-24V	INTERP
TR75VA004	3.8	2.5	3.1	3.7	75VA, 120/208/240/480-24V	INTERP
TR75VA005	3.9	2.5	3.0	3.7	75VA, 120/208/240/480-24V	INTERP
TR75VA007	3.9	2.5	3.0	3.7	75VA, 120/208/240/480-24V	INTERP
TR100VA001	4.1	2.5	3.0	4.0	100VA, 120-24V	INTERP
TR100VA002	4.1	2.5	3.0	4.0	100VA, 120-24V	INTERP
TR100VA002-20	4.0	2.5	3.0	4.1	100VA, 120-24V	INTERP
TR100VA004	4.2	2.5	3.0	4.5	100VA, 120/240/277/480-24V	INTERP
TR100VA005	4.3	2.5	3.0	4.5	100VA, 120/240/277/480-24V	INTERP

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



## ATTACHMENT 1: CERTIFIED SUBCOMPONENTS

## SPECIAL SEISMIC CERTIFICATION

### TABLE 3 - SUBCOMPONENTS (continued)

DOCUMENT NO.: 23022CR1.0

MANUFACTURER: DISTECH CONTROLS						
PRODUCT FAMILY: TEMPERATURE CONTROL PANELS						
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS
	DEPTH	WIDTH	HEIGHT			
<b>Subcomponent: Transformers - Manufacturer: Functional Devices (continued)</b>						
TR100VA008	4.2	2.5	3.0	4.3	100VA, 480/277/240/208-120V	INTERP
TR100VA009	4.3	2.5	4.1	4.5	100VA, 120/208/240/277/480-24V	INTERP
TR100VA015	4.3	2.5	4.1	4.5	100VA, 120/208/240/277/480-24V	INTERP
TR150VA001	3.7	3.8	3.2	5.1	150VA, 120-24V	INTERP
TR150VA002	3.6	3.8	3.2	5.2	150VA, 120-24V	UUT 1
<b>Subcomponent: Power Supply - Manufacturer: Functional Devices</b>						
PSB40AB10	3.8	5.3	5.2	3.3	Open Bracket Single 40VA	UUT 1
PSH40A	4.5	5.4	4.5	4.0	Enclosed Single 40VA	INTERP
PSH40AW	4.5	5.4	4.5	4.0	Enclosed Single 40VA	INTERP
PSH40AWB10	4.5	5.4	4.5	4.1	Enc Single 40VA	INTERP
PSH40AB10	4.5	5.4	4.5	4.2	Enclosed Single 40VA	INTERP
PSH40AB10-EXT2	4.5	5.4	4.5	4.5	Enclosed Single 40VA	INTERP
PSB100AB10	3.8	5.3	5.2	4.7	Open Bracket Single 100VA	UUT 2
PSH24DWB10	4.5	5.4	4.5	5.0	Enclosed 120Vac - 24Vdc/2.5A PS	INTERP
PSH100AW	4.5	5.4	4.5	5.1	Enclosed Single 100VA	INTERP
PSH75AW	4.5	5.4	4.5	5.2	Enclosed Single 75VA multi-tap	INTERP
PSH100AB10-EXT2	4.5	5.4	4.5	5.2	Enclosed Single 100VA	INTERP
PSH100A	4.5	5.4	4.5	5.4	Enclosed Single 100VA	INTERP
PSH75A	4.5	5.4	4.5	5.4	Enclosed Single 75VA	INTERP
PSH75AB10	4.5	5.4	4.5	5.4	Enclosed Single 75VA multi-tap	INTERP
PSH75AWB10	4.5	5.4	4.5	5.5	Enc. Single 75VA multi-tap	INTERP
PSH100AB10	4.5	5.4	4.5	5.5	Enclosed Single 100VA	INTERP
PSH100AWB10	4.5	5.4	4.5	5.5	Enc Single 100VA	INTERP
PSC40AB10	4.3	5.6	6.3	5.7	Covered Single 40VA	UUT 2
PSC100AB10	4.3	5.6	6.3	7.1	Covered Single 100VA	UUT 2
<b>Subcomponent: Controllers - Manufacturer: Distech Controls</b>						
CDIY-RS485-00	2.3	3.2	4.7	0.6	(2) RS-485 ports	UUT 2
CDIY-8DOR-00	2.3	5.2	4.7	0.8	8 point output extension module	UUT 2
CDIY-8DORHOA-00	2.3	5.2	4.7	0.8	8 point output extension module	UUT 2
CDIY-PS24-00	2.3	2.9	4.7	0.8	24VAC/VDC power supply module	UUT 2
CDIY-16DI-00	2.3	3.2	4.7	0.9	16 point input extension module	INTERP
CDIY-4UI4UO-00	2.3	3.2	4.7	0.9	8 point I/O extension module	INTERP
CDIY-4UI4UOHOA-00	2.3	3.2	4.7	0.9	8 point I/O extension module	INTERP
CDIY-6UO-00	2.3	3.2	4.7	0.9	6 point I/O extension module	INTERP
CDIY-6UOHOA-00	2.3	3.2	4.7	0.9	6 point I/O extension module	INTERP
CDIY-8UI-00	2.3	3.2	4.7	0.9	8 point I/O extension module	INTERP
CDIY-8UI6DOT-00	2.3	3.2	4.7	0.9	14 point I/O extension module	INTERP
CDIY-8UI6DOTHOA-00	2.3	3.2	4.7	0.9	14 point I/O extension module	UUT 2
CDIY-8UI6UO-00	2.3	3.2	4.7	0.9	14 point I/O extension module	UUT 2
CDIY-8UI6UOHOA-00	2.3	3.2	4.7	0.9	14 point I/O extension module	INTERP
CDIY-S1000-00	2.3	3.6	4.7	0.9	320 I/O points & 96 Modbus devices	INTERP
CDIY-S1000ENVY-00	2.3	3.6	4.7	0.9	320 I/O points & 96 Modbus devices	UUT 2
<b>NOTES:</b> Table continues on the next page. Additional notes, information, and seismic parameters are shown at the end of the table.						

## ATTACHMENT 1: CERTIFIED SUBCOMPONENTS

## SPECIAL SEISMIC CERTIFICATION

### TABLE 3 - SUBCOMPONENTS (continued)

DOCUMENT NO.: 23022CR1.0

MANUFACTURER: DISTECH CONTROLS						
PRODUCT FAMILY: TEMPERATURE CONTROL PANELS						
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS
	DEPTH	WIDTH	HEIGHT			
<b>Subcomponent: Controllers - Manufacturer: Distech Controls (continued)</b>						
CDIY-S1028-00	2.3	3.6	4.7	0.9	28 I/O points and 3 Modbus devices.	UUT 2
CDIY-S1028ENVY-00	2.3	3.6	4.7	0.9	28 I/O points and 3 Modbus devices	INTERP
CDIY-S1028ENVY-MS-00	2.3	3.6	4.7	0.9	28 I/O points and 3 Modbus devices	INTERP
CDIY-S1028-MS-00	2.3	3.6	4.7	0.9	28 I/O points and 3 Modbus devices	INTERP
CDIY-S1048-00	2.3	3.6	4.7	0.9	48 I/O points and 10 Modbus devices	INTERP
CDIY-S1048ENVY-00	2.3	3.6	4.7	0.9	48 I/O points and 10 Modbus devices	INTERP
CDIY-S1048ENVY-MS-00	2.3	3.6	4.7	0.9	48 I/O points and 10 Modbus devices	INTERP
CDIY-S1048-MS-00	2.3	3.6	4.7	0.9	48 I/O points and 10 Modbus devices	INTERP
CDIY-303-IMP-01	2.3	6.8	4.7	1.2	8 UI, 2 UO, 4 DO and 2 DUO	UUT 1
CDIY-303M3-IMP-01	2.3	6.8	4.7	1.2	8 UI, 2 UO, 4 DO and 2 DUO	INTERP
CDIY-303M3-SI-01	2.3	6.8	4.7	1.2	8 UI, 2 UO, 4 DO and 2 DUO	UUT 2
CDIY-303-SI-01	2.3	6.8	4.7	1.2	8 UI, 2 UO, 4 DO and 2 DUO	INTERP
CDIY-PTU203SI-00	2.2	5.7	5.6	1.3	3 UI, 2 DI, 1 sensor input	INTERP
CDIY-PTU203IMP-00	2.2	5.7	5.6	1.3	3 UI, 2 DI, 1 sensor input	UUT 1
<b>Subcomponent: Controllers - Manufacturer: Acuity Brands</b>						
CACY-NLKIT24-00	2.4	14.8	4.7	2.6		UUT 2
CACY-NLKIT24BAC-00	2.4	14.8	4.7	2.6	Identical to NLKIT24 (diff. software)	SAME
CACY-NLKIT24ENBAC-00	2.4	14.8	4.7	2.6	Identical to NLKIT24 (diff. software)	SAME
<b>Subcomponent: Controllers - Manufacturer: Tridium</b>						
CDIDI-BOS8USWIFI	2.3	6.8	4.7	<1	EC-BOS-8 with US WiFi	UUT 1
<b>Subcomponent: Network Connectivity - Manufacturer: Contemporary Controls</b>						
EISK5-GT	1.0	2.7	3.9	1.0	PnP Unmanaged Gig Switch, 5 Port	UUT 2
EISK5-100T	1.0	2.7	3.9	1.0	PnP Unmanaged Switch, 5 Port	INTERP
EISK5-100T/H	1.0	2.7	3.9	1.0	Diagnostic Switch, 5 Port	UUT 2
EISK5-GT/H	1.0	2.7	3.9	1.0	Diagnostic Gig Switch, 5 Port	INTERP
EIBA5-100T/R	1.0	3.5	3.3	1.0	BAS Switch, 5 Port, DIN	INTERP
EIBA5-100T	1.3	4.1	3.5	1.0	BAS Switch, 5 Port, Panel	UUT 1
EISK8-GT	1.6	3.7	3.9	1.0	PnP Unmanaged Gig Switch, 8 Port	INTERP
EISK8-100T	1.6	3.7	3.9	1.0	PnP Unmanaged Switch, 8 Port	INTERP
EISK8-GT/H	1.6	3.7	3.9	1.0	Diagnostic Gig Switch, 8 Port	UUT 2
EISK8P-GT	1.6	3.8	5.2	1.0	PnP Unmanaged Gig Switch, 8 Port	INTERP
EISK16-100T	1.6	3.8	6.0	1.0	PnP Unmanaged Switch, 16 Port	UUT 2
<b>Subcomponent: Relays - Manufacturer: Distech Controls</b>						
RE-12DC-SPDT					Relay	UUT 2
<b>Subcomponent: Relays - Manufacturer: Functional Devices</b>						
RIBMU2C				<1	Panel Mount Pilot Relay	UUT 2
<b>NOTES:</b> Table continues on the next page. Additional notes, information, and seismic parameters are shown at the end of the table.						



## ATTACHMENT 1: CERTIFIED SUBCOMPONENTS

## SPECIAL SEISMIC CERTIFICATION

### TABLE 3 - SUBCOMPONENTS (continued)

DOCUMENT NO.: 23022CR1.0

MANUFACTURER: DISTECH CONTROLS						
PRODUCT FAMILY: TEMPERATURE CONTROL PANELS						
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS
	DEPTH	WIDTH	HEIGHT			
<b>Subcomponent: Relays - Manufacturer: IDEC</b>						
RH1B-UAC24V	1.4	0.6	1.1	<1	SPDT 24VAC coil	EXTRAP
RH1B-UDC24V	1.4	0.6	1.1	<1	SPDT 24VDC coil	EXTRAP
RH1B-UAC120V	1.4	0.6	1.1	<1	SPDT 120VAC coil	EXTRAP
RH2B-UAC24V	1.4	0.8	1.1	<1	DPDT 24VAC coil	EXTRAP
RH2B-UDC24V	1.4	0.8	1.1	<1	DPDT 24VDC coil	EXTRAP
RH2B-ULAC24V	1.4	0.8	1.1	<1	DPDT 24VAC coil, w/ indicator	UUT 2
RH2B-ULDC24V	1.4	0.8	1.1	<1	DPDT 24VDC coil, w/ indicator	INTERP
RH3B-UAC24V	1.4	1.2	1.1	<1	3PDT 24VAC coil	UUT 2
RH3B-UDC24V	1.4	1.2	1.1	<1	3PDT 24VDC coil	INTERP
RH3B-UAC120V	1.4	1.2	1.1	<1	3PDT 120VAC coil	INTERP
RH3B-ULAC24V	1.4	1.2	1.1	<1	3PDT 24VAC coil, w/ indicator	INTERP
RH3B-ULAC120V	1.4	1.2	1.1	<1	3PDT 120VAC coil, w/ indicator	INTERP
RH3B-ULCAC120V	1.4	1.2	1.1	<1	3PDT 120VAC coil, w/ indicator +CH	INTERP
RH4B-UAC24V	1.4	1.6	1.1	<1	4PDT 24VAC coil	INTERP
RH4B-UAC120V	1.4	1.6	1.1	<1	4PDT 120VAC coil	INTERP
RH4B-ULAC24V	1.4	1.6	1.1	<1	4PDT 24VAC coil, w/ indicator	UUT 2
<b>MOUNTING:</b> Mounted within unit.				<b>SEISMIC LEVEL:</b>	S <sub>DS</sub> = 2.08g for z/h = 1 I <sub>p</sub> = 1.5	
<b>NOTES: Construction/Options:</b> Model number uniquely identifies manufacturer, materials, and configuration of subcomponents.						

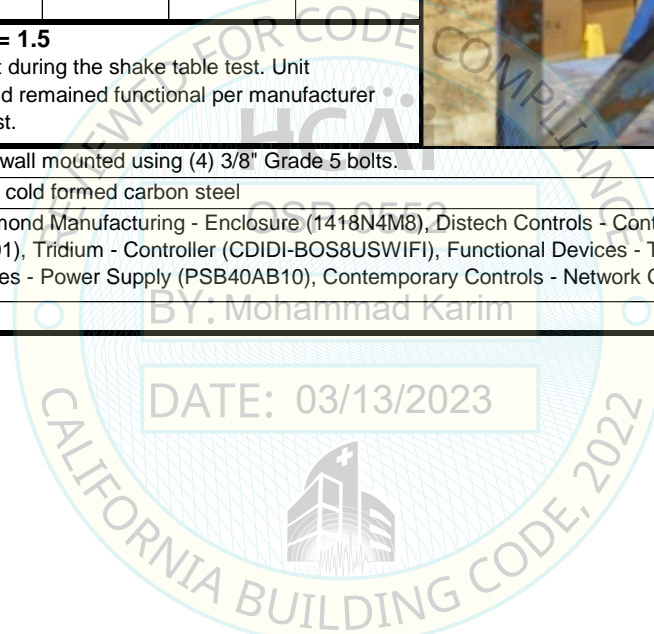
## ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

## SPECIAL SEISMIC CERTIFICATION

### UUT 1

DOCUMENT NO.: 23022CR1.0

<b>MANUFACTURER:</b>		DISTECH CONTROLS				
<b>MODEL NUMBER:</b>		CUSTOM-1418N4M8				
<b>UNIT FUNCTION:</b>		TEMPERATURE CONTROL PANEL				
<b>SERIAL NUMBER:</b>		N/A				
<b>DIMENSIONS (in)</b>			<b>WEIGHT</b>	<b>RES. FREQ. (Hz)</b>		
<b>DEPTH</b>	<b>WIDTH</b>	<b>HEIGHT</b>	<b>(lb)</b>	<b>F-B</b>	<b>S-S</b>	<b>V</b>
8.0	30.0	36.0	121	N/A	N/A	N/A
<b>CODE &amp; CRITERIA:</b>		2022 CBC, ICC-ES AC156				
<b>TEST LABORATORY:</b>		NTS - BOXBOROUGH				
<b>REPORT:</b>		TR-PR067740, Rev. 1 (dated 05/23/18), tested on 08/24/17				
<b>S<sub>DS</sub> (g)</b>	<b>z/h</b>	<b>A<sub>FLX-H</sub> (g)</b>	<b>A<sub>RIG-H</sub> (g)</b>	<b>A<sub>FLX-V</sub> (g)</b>	<b>A<sub>RIG-V</sub> (g)</b>	
2.08	1	3.33	2.50	1.39	0.56	
<b>IMPORTANCE FACTOR, I<sub>p</sub> = 1.5</b>						
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.						
<b>MOUNTING:</b>		Rigid wall mounted using (4) 3/8" Grade 5 bolts.				
<b>CONSTRUCTION:</b>		14GA cold formed carbon steel				
<b>SUBCOMPONENTS:</b>		Hammond Manufacturing - Enclosure (1418N4M8), Distech Controls - Controller (CDIY-PTU203IMP-00, CDIY-303-IMP-01), Tridium - Controller (CDIDI-BOS8USWIFI), Functional Devices - Transformer (TR150VA002), Functional Devices - Power Supply (PSB40AB10), Contemporary Controls - Network Connectivity (EIBA5-100T).				
<b>TESTING NOTES:</b>		N/A				



## ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

## SPECIAL SEISMIC CERTIFICATION

### UUT 2

DOCUMENT NO.: 23022CR1.0

<b>MANUFACTURER:</b>		DISTECH CONTROLS				
<b>MODEL NUMBER:</b>		CUSTOM-1418N4S8				
<b>UNIT FUNCTION:</b>		TEMPERATURE CONTROL PANEL				
<b>SERIAL NUMBER:</b>		N/A				
<b>DIMENSIONS (in)</b>			<b>WEIGHT</b>	<b>RES. FREQ. (Hz)</b>		
<b>DEPTH</b>	<b>WIDTH</b>	<b>HEIGHT</b>	<b>(lb)</b>	<b>F-B</b>	<b>S-S</b>	<b>V</b>
8.0	36.0	48.0	207	N/A	N/A	N/A
<b>CODE &amp; CRITERIA:</b>		2022 CBC, ICC-ES AC156				
<b>TEST LABORATORY:</b>		NTS - BOXBOROUGH				
<b>REPORT:</b>		TR-PR067740, Rev. 1 (dated 05/23/18), tested on 08/24/17				
<b>S<sub>DS</sub> (g)</b>	<b>z/h</b>	<b>A<sub>FLX-H</sub> (g)</b>	<b>A<sub>RIG-H</sub> (g)</b>	<b>A<sub>FLX-V</sub> (g)</b>	<b>A<sub>RIG-V</sub> (g)</b>	
2.08	1	3.33	2.50	1.39	0.56	
<b>IMPORTANCE FACTOR, I<sub>p</sub> = 1.5</b>						
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.						
<b>MOUNTING:</b>		Rigid wall mounted using (4) 3/8" Grade 5 bolts.				
<b>CONSTRUCTION:</b>		14GA cold formed carbon steel				
<b>SUBCOMPONENTS:</b>		Hammond Manufacturing - Enclosure (1418N4S8), Distech Controls - Controller (CDIY-303M3-SI-01, CDIY-S1028-00, CDIY-S1000ENVY-00, CDIY-8UI6UO-00, CDIY-8UI6DOTHOA-00, CDIY-8DOR-00, CDIY-8DORHOA-00, CDIY-RS485-00, CDIY-PS24-00), Acuity Brands - Controller (CACY-NLKIT24-00), Functional Devices - Transformer (TR50VA009), Functional Devices - Power Supply (PSB100AB10, PSC100AB10, PSC40AB10), Distech Controls - Relay (12DC-SPDT, RE-PTML0024), Functional Devices - Relay (RIBMU2C), IDEC - Relay (RH2B-ULAC24V, RH3B UAC24V, RH4B-ULAC24V), Contemporary Controls - Network Connectivity (EISK5-GT, EISK16-100T, EISK5-100T/H, EISK8-GT/H)				
<b>TESTING NOTES:</b>		N/A				

