



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

**APPLICATION FOR HCAI SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)**

OFFICE USE ONLY

APPLICATION #: OSP-0471

HCAI Special Seismic Certification Preapproval (OSP)

Type: New Renewal

Manufacturer Information

Manufacturer: TOSHIBA INTERNATIONAL CORPORATION

Manufacturer's Technical Representative: Tiffany Tye

Mailing Address: 13131 West Little York Road, Houston, TX 77041

Telephone: (855) 803-7087

Email: tiffany.tye@toshiba.com

Product Information

Product Name: UPS and Batteries

Product Type: UPS

Product Model Number: 4400 Uninterruptible Power Systems

General Description: Uninterruptible Power Supply, battery cabinets, & support cabinets.

Mounting Description: Rigid, Floor/Wall Mounted

Tested Seismic Enhancements: Seismic enhancements made to the test units and/or modifications required to address anomalies during the tests shall be incorporated into the production units.

Applicant Information

Applicant Company Name: Manwill Engineering LLC

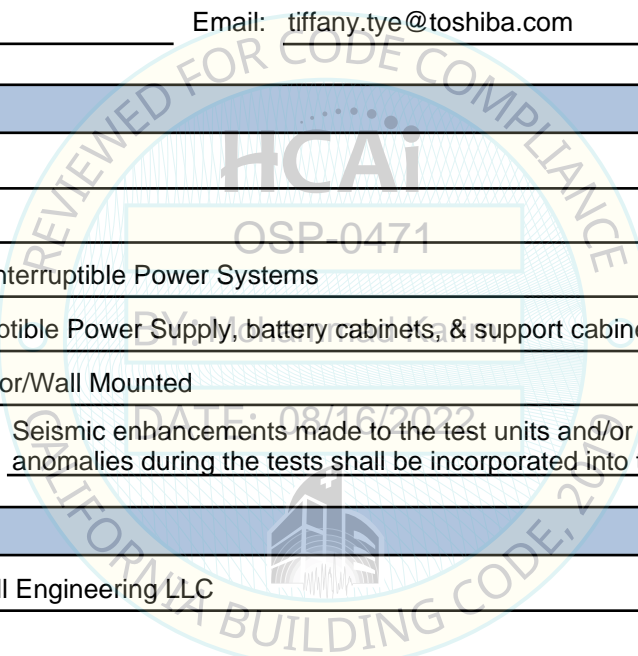
Contact Person: Derek Manwill

Mailing Address: PO Box 1194, Bend, OR 97709

Telephone: (541) 241-2102

Email: derek@manwillse.com

Title: President





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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: ENVIRONMENTAL TESTING LABORATORIES, INC. (ETL)
Contact Person: Jeremy Lange
Mailing Address: 11034 Indian Trail, Dallas TX 75229
Telephone: (972) 247-9657 Email: Jeremy@etldallas.com





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FACILITIES DEVELOPMENT DIVISION**

Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = 1.50 (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) = 2.5

R_p (Response modification factor) = 6.0

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

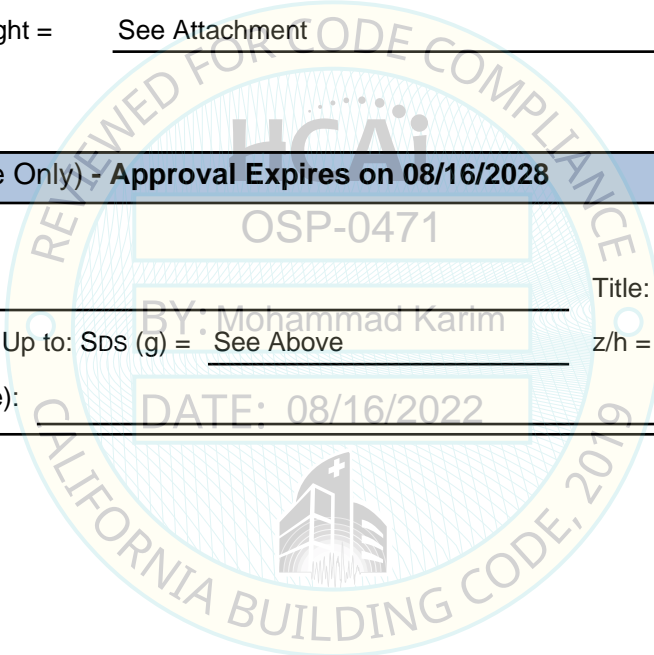
HCAI Approval (For Office Use Only) - Approval Expires on 08/16/2028

Date: 8/16/2022

Name: Mohammad Karim Title: Supervisor, Health Facilities

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

Condition of Approval (if applicable): DATE: 08/16/2022



ATTACHMENT 1: CERTIFIED COMPONENTS

SPECIAL SEISMIC CERTIFICATION

TABLE 1

DOCUMENT NO.: 22031CR1.0

MANUFACTURER: TOSHIBA INTERNATIONAL CORPORATION						
PRODUCT FAMILY: 4400 SERIES UNINTERRUPTIBLE POWER SYSTEMS						
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS
	DEPTH	WIDTH	HEIGHT			
4400 UPS						
4400F3F100nnBnn-S	37.4	20.1	65.1	725	10kVA w/ backup batteries	EXTRAP
4400F3F150nnBnn-S	37.4	20.1	65.1	725	15kVA w/ backup batteries	EXTRAP
4400F3F200nnBnn-S	37.4	20.1	65.1	725	20kVA w/ backup batteries	EXTRAP
4400F3F250nnBnn-S	37.4	20.1	65.1	725	25kVA w/ backup batteries	EXTRAP
4400F3F300nnBnn-S	37.4	20.1	65.1	725	30kVA w/ backup batteries	EXTRAP
4400F3F300XABNX-S	37.4	20.1	65.1	806	30kVA w/ backup batteries	UUT 10
4400n3n100nnXnn-S	37.4	20.1	65.1	981	10kVA w/ up to 2 transformers	INTERP
4400n3n150nnXnn-S	37.4	20.1	65.1	981	15kVA w/ up to 2 transformers	INTERP
4400n3n200nnXnn-S	37.4	20.1	65.1	981	20kVA w/ up to 2 transformers	INTERP
4400n3n250nnXnn-S	37.4	20.1	65.1	981	25kVA w/ up to 2 transformers	INTERP
4400n3n300nnXnn-S	37.4	20.1	65.1	981	30kVA w/ up to 2 transformers	INTERP
4400S3K300XAXNX-S	37.4	20.1	65.1	981	30kVA w/ 2 transformers	UUT 11
4400F3F400nnBnn-S	37.2	32.1	73.6	1,917	40kVA w/ backup batteries	INTERP
4400F3F500nnBnn-S	37.2	32.1	73.6	1,917	50kVA w/ backup batteries	INTERP
4400F3F500XABNX-S	37.2	32.1	73.6	1,917	50kVA w/ backup batteries	UUT 9
4400n3n400nnXnn-S	37.2	32.1	73.6	1,620	40kVA w/ up to 2 transformers	INTERP
4400n3n500nnXnn-S	37.2	32.1	73.6	1,620	50kVA w/ up to 2 transformers	INTERP
4400n3n600nnXnn-S	37.2	32.1	73.6	1,640	60kVA w/ up to 1 transformer	INTERP
4400n3n800nnXnn-S	37.2	32.1	73.6	1,640	80kVA w/ up to 1 transformer	INTERP
4400S3F800XAXNX-S	37.2	32.1	73.6	1,640	80kVA w/ 1 transformer	UUT 8
4400 Auxiliary Cabinets						
440A100nFnn-S	37.4	20.1	65.1	383	10kVA w/ or w/o MBS/PDP	EXTRAP
440A150nFnn-S	37.4	20.1	65.1	383	15kVA w/ or w/o MBS/PDP	EXTRAP
440A200nFnn-S	37.4	20.1	65.1	383	20kVA w/ or w/o MBS/PDP	EXTRAP
440A250nFnn-S	37.4	20.1	65.1	383	25kVA w/ or w/o MBS/PDP	EXTRAP
440A300nFnn-S	37.4	20.1	65.1	383	30kVA w/ or w/o MBS/PDP	EXTRAP
440A300MFPX-S	37.4	20.1	65.1	383	30kVA w/ MBS/PDP	UUT 13
440A400nFnnnnnn-S	37.2	32.1	73.6	517	40kVA w/ or w/o MBS/PDP/SubFeed	INTERP
440A500nFnnnnnn-S	37.2	32.1	73.6	517	50kVA w/ or w/o MBS/PDP/SubFeed	INTERP
440A600nFnnnnnn-S	37.2	32.1	73.6	517	60kVA w/ or w/o MBS/PDP/SubFeed	INTERP
440A800nFnnnnnn-S	37.2	32.1	73.6	517	80kVA w/ or w/o MBS/PDP/SubFeed	INTERP
440A800MFS3CPXX-S	37.2	32.1	73.6	517	80kVA w/ MBS/PDP/SubFeed	UUT 12
4400 Battery Cabinets						
440B300017ER111X-S	37.4	20.1	65.3	1,224	30kVA w/ EnerSys HX-205 batteries	UUT 15
440B500020ER111n-S	37.2	32.1	73.6	2,389	50kVA w/ EnerSys HX-400 batteries	INTERP
440B800010ER111n-S	37.2	32.1	73.6	2,389	80kVA w/ EnerSys HX-400 batteries	INTERP
440B800010ER111X-S	37.2	32.1	73.6	2,389	80kVA w/ EnerSys HX-400 batteries	UUT 14
MOUNTING:	Rigid floor and wall mounted.			SEISMIC LEVELS:	$S_{DS} = 2.0g$ for $z/h = 1$ $S_{DS} = 2.5g$ for $z/h = 0$	
NOTES:	Product Construction: Painted carbon steel enclosure and framing. Options/Subcomponents: Model number uniquely identifies selected options and subcomponents. Note 1: Each model can be a standalone single module or a group of modules physically connected together. Note 2: Seismic enhancements made to the test unit must be incorporated into the production units.					

ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SPECIAL SEISMIC CERTIFICATION

UUT 8

DOCUMENT NO.: 22031CR1.0

MANUFACTURER:		TOSHIBA INTERNATIONAL CORPORATION				
MODEL NUMBER:		4400S3F800XAXNX-S				
UNIT FUNCTION:		UPS				
SERIAL NUMBER:		15032501SU				
DIMENSIONS (in)			WEIGHT (lb)	RES. FREQ. (Hz)		
DEPTH	WIDTH	HEIGHT		F-B	S-S	V
37.2	32.1	73.6	1,640	N/A	N/A	N/A
CODE & CRITERIA:		2019 CBC		ICC-ES AC156		
TEST LABORATORY:		ENVIRONMENTAL TESTING LABORATORY				
REPORT & DATE:		SQ37-1502-01, Rev. 3		December 31, 2018		
S _{DS} (g)	z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
2.0	1	3.20	2.40	1.68	0.68	
2.5	0					
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 floor and wall mounted. Unit base is mounted using (4) 1/2in Grade 8 bolts. Unit top is mounted with the seismic wall mount bracket using (3) 3/8in ASTM A574 socket head bolts.				
CONSTRUCTION:		Painted carbon steel enclosure and framing.				
SUBCOMPONENTS:		Subcomponents are uniquely identified by the model number.				



UUT 9

MANUFACTURER:		TOSHIBA INTERNATIONAL CORPORATION				
MODEL NUMBER:		4400F3F500XABNX-S				
UNIT FUNCTION:		UPS				
SERIAL NUMBER:		15110038				
DIMENSIONS (in)			WEIGHT (lb)	RES. FREQ. (Hz)		
DEPTH	WIDTH	HEIGHT		F-B	S-S	V
37.2	32.1	73.6	1,917	N/A	N/A	N/A
CODE & CRITERIA:		2019 CBC		ICC-ES AC156		
TEST LABORATORY:		ENVIRONMENTAL TESTING LABORATORY				
REPORT & DATE:		SQ37-1502-01, Rev. 3		December 31, 2018		
S _{DS} (g)	z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
2.0	1	3.20	2.40	1.68	0.68	
2.5	0					
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 floor and wall mounted. Unit base is mounted using (6) 1/2in Grade 8 bolts. Unit top is mounted with the seismic wall mount bracket using (4) 3/8in ASTM A574 socket head bolts.				
CONSTRUCTION:		Painted carbon steel enclosure and framing.				
SUBCOMPONENTS:		Subcomponents are uniquely identified by the model number.				



ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SPECIAL SEISMIC CERTIFICATION

UUT 10

DOCUMENT NO.: 22031CR1.0

MANUFACTURER:		TOSHIBA INTERNATIONAL CORPORATION				
MODEL NUMBER:		4400F3F300XABNX-S				
UNIT FUNCTION:		UPS				
SERIAL NUMBER:		150202100				
DIMENSIONS (in)			WEIGHT (lb)	RES. FREQ. (Hz)		
DEPTH	WIDTH	HEIGHT		F-B	S-S	V
37.4	20.1	65.1	806	N/A	N/A	N/A
CODE & CRITERIA:		2019 CBC		ICC-ES AC156		
TEST LABORATORY:		ENVIRONMENTAL TESTING LABORATORY				
REPORT & DATE:		SQ37-1502-01, Rev. 3		December 31, 2018		
S _{DS} (g)	z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
2.0	1	3.20	2.40	1.68	0.68	
2.5	0					
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 floor and wall mounted. Unit base is mounted using (4) 1/2in Grade 8 bolts. Unit top is mounted with the seismic wall mount bracket using (2) 3/8in ASTM A574 socket head bolts.				
CONSTRUCTION:		Painted carbon steel enclosure and framing.				
SUBCOMPONENTS:		Subcomponents are uniquely identified by the model number.				



UUT 11

MANUFACTURER:		TOSHIBA INTERNATIONAL CORPORATION				
MODEL NUMBER:		4400S3K300XAXNX-S				
UNIT FUNCTION:		UPS				
SERIAL NUMBER:		150801658				
DIMENSIONS (in)			WEIGHT (lb)	RES. FREQ. (Hz)		
DEPTH	WIDTH	HEIGHT		F-B	S-S	V
37.4	20.1	65.1	981	N/A	N/A	N/A
CODE & CRITERIA:		2019 CBC		ICC-ES AC156		
TEST LABORATORY:		ENVIRONMENTAL TESTING LABORATORY				
REPORT & DATE:		SQ37-1502-01, Rev. 3		December 31, 2018		
S _{DS} (g)	z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
2.0	1	3.20	2.40	1.68	0.68	
2.5	0					
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 floor and wall mounted. Unit base is mounted using (6) 1/2in Grade 8 bolts. Unit top is mounted with the seismic wall mount bracket using (2) 3/8in ASTM A574 socket head bolts.				
CONSTRUCTION:		Painted carbon steel enclosure and framing.				
SUBCOMPONENTS:		Subcomponents are uniquely identified by the model number.				



ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SPECIAL SEISMIC CERTIFICATION

UUT 12

DOCUMENT NO.: 22031CR1.0

MANUFACTURER:		TOSHIBA INTERNATIONAL CORPORATION				
MODEL NUMBER:		440A800MFS3CPXXX-S				
UNIT FUNCTION:		AUXILIARY CABINET				
SERIAL NUMBER:		15032502SU				
DIMENSIONS (in)			WEIGHT (lb)	RES. FREQ. (Hz)		
DEPTH	WIDTH	HEIGHT		F-B	S-S	V
37.2	32.1	73.6	517	N/A	N/A	N/A
CODE & CRITERIA:		2019 CBC		ICC-ES AC156		
TEST LABORATORY:		ENVIRONMENTAL TESTING LABORATORY				
REPORT & DATE:		SQ37-1502-01, Rev. 3		December 31, 2018		
S _{DS} (g)	z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
2.0	1	3.20	2.40	1.68	0.68	
2.5	0					
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 floor and wall mounted. Unit base is mounted using (4) 1/2in Grade 8 bolts. Unit top is mounted with the seismic wall mount bracket using (4) 3/8in ASTM A574 socket head bolts.				
CONSTRUCTION:		Painted carbon steel enclosure and framing.				
SUBCOMPONENTS:		Subcomponents are uniquely identified by the model number.				



UUT 13

MANUFACTURER:		TOSHIBA INTERNATIONAL CORPORATION				
MODEL NUMBER:		440A300MFPX-S				
UNIT FUNCTION:		AUXILIARY CABINET				
SERIAL NUMBER:		15032503SU				
DIMENSIONS (in)			WEIGHT (lb)	RES. FREQ. (Hz)		
DEPTH	WIDTH	HEIGHT		F-B	S-S	V
37.4	20.1	65.1	383	N/A	N/A	N/A
CODE & CRITERIA:		2019 CBC		ICC-ES AC156		
TEST LABORATORY:		ENVIRONMENTAL TESTING LABORATORY				
REPORT & DATE:		SQ37-1502-01, Rev. 3		December 31, 2018		
S _{DS} (g)	z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
2.0	1	3.20	2.40	1.68	0.68	
2.5	0					
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 floor and wall mounted. Unit base is mounted using (4) 1/2in Grade 8 bolts. Unit top is mounted with the seismic wall mount bracket using (2) 3/8in ASTM A574 socket head bolts.				
CONSTRUCTION:		Painted carbon steel enclosure and framing.				
SUBCOMPONENTS:		Subcomponents are uniquely identified by the model number.				



ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SPECIAL SEISMIC CERTIFICATION

UUT 14

DOCUMENT NO.: 22031CR1.0

MANUFACTURER:		TOSHIBA INTERNATIONAL CORPORATION				
MODEL NUMBER:		440B800010ER111X-S				
UNIT FUNCTION:		BATTERY CABINET				
SERIAL NUMBER:		150801537				
DIMENSIONS (in)			WEIGHT (lb)	RES. FREQ. (Hz)		
DEPTH	WIDTH	HEIGHT		F-B	S-S	V
37.2	32.1	73.6	2,389	N/A	N/A	N/A
CODE & CRITERIA:		2019 CBC		ICC-ES AC156		
TEST LABORATORY:		ENVIRONMENTAL TESTING LABORATORY				
REPORT & DATE:		SQ37-1502-01, Rev. 3		December 31, 2018		
S _{DS} (g)	z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
2.0	1	3.20	2.40	1.68	0.68	
2.5	0					
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 floor and wall mounted. Unit base is mounted using (4) 1/2in Grade 8 bolts. Unit top is mounted with the seismic wall mount bracket using (4) 3/8in ASTM A574 socket head bolts.				
CONSTRUCTION:		Painted carbon steel enclosure and framing.				
SUBCOMPONENTS:		Subcomponents are uniquely identified by the model number.				



UUT 15

MANUFACTURER:		TOSHIBA INTERNATIONAL CORPORATION				
MODEL NUMBER:		440B300017ER111X-S				
UNIT FUNCTION:		BATTERY CABINET				
SERIAL NUMBER:		140401513				
DIMENSIONS (in)			WEIGHT (lb)	RES. FREQ. (Hz)		
DEPTH	WIDTH	HEIGHT		F-B	S-S	V
37.4	20.1	65.3	1,224	N/A	N/A	N/A
CODE & CRITERIA:		2019 CBC		ICC-ES AC156		
TEST LABORATORY:		ENVIRONMENTAL TESTING LABORATORY				
REPORT & DATE:		SQ37-1502-01, Rev. 3		December 31, 2018		
S _{DS} (g)	z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
2.0	1	3.20	2.40	1.68	0.68	
2.5	0					
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 floor and wall mounted. Unit base is mounted using (4) 1/2in Grade 8 bolts. Unit top is mounted with the seismic wall mount bracket using (3) 3/8in ASTM A574 socket head bolts.				
CONSTRUCTION:		Painted carbon steel enclosure and framing.				
SUBCOMPONENTS:		Subcomponents are uniquely identified by the model number.				



ATTACHMENT 3: MODEL NOMENCLATURE

SPECIAL SEISMIC CERTIFICATION

4400 AUXILIARY CABINET (40-80kVA)

DOCUMENT NO.: 22031CR1.0

DIGIT:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	-	-	-	-	-	-	-	-	-	-
SAMPLE:	4	4	0	A	5	0	0	M	F	P	X	X	S	3	A	P	-	S	-	-	-	-	-	-	-	-	-	-
DIGIT	DIGIT DESCRIPTION										CODES	DEFINITIONS																
1-2	Product Line										44	4400 Series																
3	Revision Number										0	4400 Revision 0																
4	Product Designator										A	Auxiliary cabinet with MBS/PDU/SubFeed Breakers, no transformer																
5-7	kVA Capacity										400	40kVA Output Power																
											500	50kVA Output Power																
											600	60kVA Output Power																
											800	80kVA Output Power																
8	MBS Option										M	3 breaker horizontal line-up with SKRU																
											X	No MBS installed																
9	MBS Voltage										F	208/120V 4 wire + Gnd																
											X	No MBS installed																
10	Power Distribution Panel located at Top-Left Slot										P	42-Pole PDP (Power Distribution Panel)																
											S	SubFeed Breaker Panel																
											X	No distribution module installed																
11	Number of SubFeed Breakers located at Top-Left Slot										1	1 SubFeed Breaker																
											2	2 SubFeed Breakers																
											3	3 SubFeed Breakers																
											X	No SubFeed breaker module installed																
12	Amperage of SubFeed Breakers located at Top-Left Slot										A	100A SubFeed Breaker(s)																
											B	150A SubFeed Breaker(s)																
											C	200A SubFeed Breaker(s)																
											X	No SubFeed breaker module installed																
13	[50-80kVA] Power Distribution Panel located at Top-Right Slot										P	42-Pole PDP (Power Distribution Panel)																
											S	SubFeed Breaker Panel																
											X	No distribution module installed																
14	[50-80kVA] Number of SubFeed Breakers located at Top-Right Slot										1	1 SubFeed Breaker																
											2	2 SubFeed Breakers																
											3	3 SubFeed Breakers																
											X	No SubFeed breaker module installed																
15	[50-80kVA] Amperage of SubFeed Breakers located at Top-Right Slot										A	100A SubFeed Breaker(s)																
											B	150A SubFeed Breaker(s)																
											C	200A SubFeed Breaker(s)																
											X	No SubFeed breaker module installed																
16	OEM Vendor Code										n	Code may vary, specific to OEM Vendor (branding changes only)																
											X	Not used																
17-18	Seismic Construction Designator										D	Seismic Construction																

ATTACHMENT 3: MODEL NOMENCLATURE

SPECIAL SEISMIC CERTIFICATION

4400 BATTERY CABINET

DOCUMENT NO.: 22031CR1.0

DIGIT:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	-	-	-	-	-	-	-	-	-	-
SAMPLE:	4	4	0	B	8	0	0	0	1	0	E	R	1	1	1	X	-	S	-	-	-	-	-	-	-	-	-	-

DIGIT	DIGIT DESCRIPTION	CODES	DEFINITIONS
1-2	Product Line	44	4400 Series
3	Battery Cabinet Factory	0	Toshiba International Corporation Manufactured Battery Cabinet
4	Product Designator	B	Battery Cabinet
5-7	kVA Capacity	300	30kVA Output Power
		500	50kVA Output Power
		800	80kVA Output Power
8-10	UPS Estimated Runtime in Minutes @ 0.8PF (kVA specific)	010	10 minutes (80kVA)
		017	17 minutes (30kVA)
		020	20 minutes (50kVA)
		XXX	Varies for different UPS units
11	Battery Type	E	Enersys
12	DC Bus Nominal Voltage	R	288V
13	Number of Cabinets	1	Single Cabinet
14	Number of Battery Strings in Cabinet	1	1 Battery String
15	Number of Breakers per Cabinet	1	1 Breaker per Cabinet
16	OEM Vendor Code	n	Code may vary, specific to OEM Vendor (branding changes only)
		X	Not used
17-18	Seismic Construction Designator	D	Seismic Construction

BY: Mohammad Karim

DATE: 08/16/2022

