

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

OFFICE USE ONLY APPLICATION FOR HCAI SPECIAL SEISMIC **CERTIFICATION PREAPPROVAL (OSP)** 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 Seismic enhancements made to the test units and/or modifications required to address Tested Seismic Enhancements: 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

Email: derek@manwillse.com





Telephone: (541) 241-2102

Title: President

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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
Other (Please Specify):
EOR CODE CO
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
DATE: 08/16/2022





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DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

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Sei	smic	: Para	meters

Design Basis of Equipment or Components (Fp/Wp) = 1.50 (SDS=2.00, z/h=1), 1.13 (SDS=2.50, z/h=0)

Sps (Design spectral response acceleration at short period, g) = 2.00 (z/h=1), 2.50 (z/h=0)

ap (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 OSP-0471

Name: Mohammad Karim Title: Supervisor, Health Facilities

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

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





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ATTACHMENT 1: CERTIFIED COMPONENTS

SPECIAL SEISMIC CERTIFICATION

TABLE 1DOCUMENT NO.: 22031CR1.0

MANUFACT		HIBA INTERNA					
PRODUCT	FAMILY: 4400	SERIES UNINT					
MODEL NU	MBER	DEPTH	DIMENSIONS (in) DEPTH WIDTH HEIGHT		MAX. WT.	DESCRIPTION / NOTES	BASIS
1400 UPS		<i>D</i> 2.1111	***************************************	III III III	(1.5)	l	
4400F3F100n	nBnn-S	37.4	20.1	65.1	725	10kVA w/ backup batteries	EXTRAP
4400F3F150n		37.4	20.1	65.1	725	15kVA w/ backup batteries	EXTRAP
4400F3F200n		37.4	20.1	65.1	725	20kVA w/ backup batteries	EXTRAP
4400F3F250n		37.4	20.1	65.1	725	25kVA w/ backup batteries	EXTRAP
4400F3F300n		37.4	20.1	65.1	725	30kVA w/ backup batteries	EXTRAP
4400F3F300X		37.4	20.1	65.1	806	30kVA w/ backup batteries	UUT 10
4400n3n100n		37.4	20.1	65.1	981	10kVA w/ up to 2 transformers	INTERP
4400n3n150n		37.4	20.1	65.1	981	15kVA w/ up to 2 transformers	INTERP
4400n3n200n		37.4	20.1	65.1	981	20kVA w/ up to 2 transformers	INTERP
4400n3n250n		37.4	20.1	65.1	981	25kVA w/ up to 2 transformers	INTERP
4400n3n300n		37.4	20.1	65.1	981	30kVA w/ up to 2 transformers	INTERP
4400S3K300		37.4	20.1	65.1	981	30kVA w/ 2 transformers	UUT 11
4400F3F400n		37.2	32.1	5P _{73.6} 4	1,917	40kVA w/ backup batteries	INTERP
4400F3F500n		37.2	32.1	73.6	1,917	50kVA w/ backup batteries	INTERP
4400F3F500X		37.2	32.1	73.6	1,917	50kVA w/ backup batteries	UUT 9
4400n3n400n		37.2	32.10	am _{73.6} ad	Ka _{1,620}	40kVA w/ up to 2 transformers	INTERP
4400n3n500n		37.2	32.1	73.6	1,620	50kVA w/ up to 2 transformers	INTERP
4400n3n600n		37.2	32.1	73.6	1,640	60kVA w/ up to 1 transformer	INTERP
4400n3n800n		37.2	32.1	73.6	1,640	80kVA w/ up to 1 transformer	INTERP
4400S3F800>		37.2	32.1	73.6	1,640	80kVA w/ 1 transformer	UUT 8
400 Auxiliary			WANNA TO THE REPORT OF THE PARTY OF THE PART	7,0.0	1,515	GRAM II I II	00.0
440A100nFnr	<u> </u>	37.4	20.1	65.1	383	10kVA w/ or w/o MBS/PDP	EXTRAF
440A150nFnr		37.4	20.1	65.1	383	15kVA w/ or w/o MBS/PDP	EXTRAF
440A200nFnr		37.4	20.1	65.1	383	20kVA w/ or w/o MBS/PDP	EXTRAF
440A250nFnr		37.4	20.1	65.1	383	25kVA w/ or w/o MBS/PDP	EXTRAP
440A300nFnr		37.4	20.1	65.1	383	30kVA w/ or w/o MBS/PDP	EXTRAF
440A300MFP		37.4	20.1	65.1	383	30kVA w/ MBS/PDP	UUT 13
440A400nFnr		37.2	32.1	73.6	517	40kVA w/ or w/o MBS/PDP/SubFeed	INTERP
440A500nFnr		37.2	32.1	73.6	517	50kVA w/ or w/o MBS/PDP/SubFeed	INTERP
440A600nFnr		37.2	32.1	73.6	517	60kVA w/ or w/o MBS/PDP/SubFeed	INTERP
440A800nFnr		37.2	32.1	73.6	517	80kVA w/ or w/o MBS/PDP/SubFeed	INTERP
440A800MFS		37.2	32.1	73.6	517	80kVA w/ MBS/PDP/SubFeed	UUT 12
400 Battery (02	<u> </u>	. 5.5	0	00	
440B300017E		37.4	20.1	65.3	1,224	30kVA w/ Enersys HX-205 batteries	UUT 15
		37.2	32.1	73.6	2,389	50kVA w/ Enersys HX-400 batteries	INTERP
440B500020ER111n-S 440B800010ER111n-S		37.2	32.1	73.6	2,389	80kVA w/ Enersys HX-400 batteries	INTERP
440B800010E		37.2	32.1	73.6	2,389	80kVA w/ Enersys HX-400 batteries	UUT 14
MOUNTING:	Rigid floor and wa			. 5.5	SEISMIC LEVELS:	$S_{DS} = 2.0g$ for $z/h = 1$ $S_{DS} = 2.5g$ for $z/h = 0$	I _P = 1.5
NOTES:	Options/Subcon Note 1: Each mo	del can be a stand	number uniq lalone single	uely identifies module or a	raming. selected optio group of modul	ins and subcomponents. les physically connected together. into the production units.	





SPECIAL SEISMIC CERTIFICATION

UUT 8 DOCUMENT NO.: 22031CR1.0

MANUFAC	TURER:	TOSHIBA INTERNATIONAL CORPORATION				
MODEL NU	JMBER:	4400S3F8	00XAXNX-S			
UNIT FUNC	FUNCTION: UPS					
SERIAL NU	JMBER:	15032501SU				
DIN	/IENSIONS	(in)	WEIGHT	RES	. FREQ	. (Hz)
DEPTH	WIDTH	HEIGHT	(lb)	F-B	S-S	V
37.2	32.1	73.6	1,640	N/A	N/A	N/A
CODE & CI	RITERIA:	2019 CBC	ICC-E	S AC15	6	
TEST LAB	ORATORY:	ENVIRON	MENTAL TES	STING LA	BORAT	ORY
REPORT &	DATE:	SQ37-150	2-01, Rev. 3	Decer	mber 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	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 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

MODEL NUMBER: 4400F3F500XABNX-S UNIT FUNCTION: UPS SERIAL NUMBER: 15110038 DIMENSIONS (in) WEIGHT (Ib) RES. FREQ. (Hz) 37.2 32.1 73.6 1,917 N/A N/A N/A CODE & CRITERIA: 2019 CBC ICC-ES AC156 ICC-ES AC156 TEST LABORATORY: ENVIRONMENTAL TESTING LABORATORY REPORT & DATE: SQ37-1502-01, Rev. 3 December 31, 2018 Sps (g) Z/h AFLX-H (g) ARIG-H (g) AFLX-V (g) ARIG-V (g) 2.0 1 3.20 2.40 1.68 0.68	MANUFAC	TURER:	TOSHIBA INTERNATIONAL CORPORATION				
SERIAL NUMBER: 15110038 DIMENSIONS (in) WEIGHT (Ib) RES. FREQ. (Hz) DEPTH WIDTH HEIGHT (Ib) F-B S-S V 37.2 32.1 73.6 1,917 N/A 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	MODEL NU	JMBER:	4400F3F5	00XABNX-S	AIL	. 0	0/10/2
DIMENSIONS (in) WEIGHT RES. FREQ. (Hz)	UNIT FUNC	CTION:	UPS			3134	
DEPTH WIDTH HEIGHT (Ib) 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 ICC-ES AC156	SERIAL NU	JMBER:	15110038				
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	DIN	/IENSIONS	(in)	WEIGHT	RES.	FRE	Q. (Hz)
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	DEPTH	WIDTH	HEIGHT	(lb)	F-B	S-S	V
TEST LABORATORY: ENVIRONMENTAL TESTING LABORATORY REPORT & DATE: SQ37-1502-01, Rev. 3 December 31, 2018 SDS (g) Z/h AFLX-H (g) ARIG-H (g) AFLX-V (g) ARIG-V (g) 2.0 1 3 20 2 40 1 68 0 68	37.2	32.1	73.6	1,917	N/A	N/A	N/A
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	CODE & CI	RITERIA:	2019 CBC	2019 CBC ICC-ES AC			56 TN
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	TEST LAB	ORATORY:	ENVIRON	MENTAL TES	STING LA	BORA	TORY
2.0 1 3.20 2.40 1.68 0.68	REPORT &	DATE:	SQ37-1502-01, Rev. 3		Decem	ber 3	1, 2018
3 20 2 40 1 68 0 68	S _{DS} (g)	z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g) /	A _{RIG-V} (g)
2.5 0 3.20 2.40 1.00 0.00	2.0	1	2 20	2.40	1 60		0.69
	2.5	0	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.



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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.





SPECIAL SEISMIC CERTIFICATION

UUT 10 DOCUMENT NO.: 22031CR1.0

MANUFAC	TURER:	TOSHIBA INTERNATIONAL CORPORATION						
MODEL NU	JMBER:	4400F3F3	4400F3F300XABNX-S					
UNIT FUNC	CTION:	UPS						
SERIAL NU	JMBER:	15020210	0					
DIN	MENSIONS	(in)	WEIGHT	RES	. FREQ	. (Hz)		
DEPTH	WIDTH	HEIGHT	(lb)	F-B	S-S	٧		
37.4	20.1	65.1	806	N/A	N/A	N/A		
CODE & CI	RITERIA:	2019 CBC	ICC-E	S AC15	3			
TEST LAB	ORATORY:	ENVIRON	MENTAL TES	STING LA	ABORAT	ORY		
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 _F	RIG-V (g)		
2.0	1	3.20	2.40	1.68	,	0.68		
2.5	0	3.20	2.40	1.00	- 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 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 CORPO					RPO	RATION
MODEL NU	JMBER:	4400S3K3	800XAXNX-S	JAIL		10/2
UNIT FUNC	CTION:	UPS			HH	
SERIAL NU	JMBER:	150801658				
DIN	/IENSIONS	(in)	WEIGHT	RES.	FRE	Q. (Hz)
DEPTH	WIDTH	HEIGHT	(lb)	F-B	S-S	SV
37.4	20.1	65.1	981	N/A	N/A	A N/A
CODE & CI	RITERIA:	2019 CBC	ICC-ES AC156			
TEST LAB	ORATORY:	ENVIRON	MENTAL TES	STING LA	BOR	ATORY
REPORT &	DATE:	SQ37-150	2-01, Rev. 3	Decen	nber (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	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.



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MOUNTING:	seismic wall mount bracket using (2) 3/8in ASTM A574 socket head bolts. Unit top is mounted with the
CONSTRUCTION:	Painted carbon steel enclosure and framing.
SUBCOMPONENTS:	Subcomponents are uniquely identified by the model number.





SPECIAL SEISMIC CERTIFICATION

UUT 12 DOCUMENT NO.: 22031CR1.0

MANUFAC	TURER:	TOSHIBA INTERNATIONAL CORPORATION						
MODEL NU	JMBER:	440A800N	440A800MFS3CPXXX-S					
UNIT FUNC	CTION:	AUXILIAR	Y CABINET					
SERIAL NU	JMBER:	15032502SU						
DIN	MENSIONS	(in)	WEIGHT	RES	. FREQ	. (Hz)		
DEPTH	WIDTH	HEIGHT	(lb)	F-B	S-S	٧		
37.2	32.1	73.6	517	N/A	N/A	N/A		
CODE & CI	RITERIA:	2019 CBC	ICC-E	S AC15	5			
TEST LAB	ORATORY:	ENVIRON	MENTAL TES	STING LA	ABORAT	ORY		
REPORT & DATE:		SQ37-150	2-01, Rev. 3	Decer	mber 31,	2018		
S _{DS} (g)	z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V}	(g) A _F	RIG-V (g)		
2.0	1	3.20	2.40	1.68	,	0.68		
2.5	0	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 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

MOUNTING:

MANUFAC	TURER:	TOSHIBA INTERNATIONAL CORPORATION					
MODEL NU	JMBER:	440A300N	IFPX-S	JAIL	(UO/	10/2
UNIT FUNC	CTION:	AUXILIAR	Y CABINET		HH		18888
SERIAL NU	JMBER:	15032503	SU		M		3334
DIN	/IENSIONS	(in)	WEIGHT	RES. FREQ. (Hz)			(Hz)
DEPTH	WIDTH	HEIGHT	(lb)	F-B	S-	S	V
37.4	20.1	65.1	383	N/A	N/	Ά	N/A
CODE & C	RITERIA:	2019 CBC ICC-ES AC156					
TEST LAB	ORATORY:	ENVIRONMENTAL TESTING LABORATORY					
REPORT &	DATE:	SQ37-1502-01, Rev. 3 December 31.			31, 2	2018	
S _{DS} (g)	z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V}	(g)	A_{RI}	_{IG-V} (g)
2.0	1	3.20	2.40	1.68	,	•	0.68
2.5	0	3.20	2.40	1.00	•		7.00

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.

	440/3001	VII I X-3	7 () = 1	
	AUXILIAR	RY CABINET		
	15032503	SU		
S	(in)	WEIGHT	RES. FF	REQ. (Hz)
	HEIGHT	(lb)	F-B S	S-S V
	65.1	383	N/A N	V/A N/A
	2019 CBC		ICC-ES A	C156
/ :	ENVIRON	MENTAL TE	STING LABO	RATORY
	SQ37-150	02-01, Rev. 3	Decembe	er 31, 2018
	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
	3.20	2.40	1.68	0.68
C.	TOR, I _P = 1.	5		
	ng content dur		table test. U	nit
in	ntegrity and re	mained functi	onal per man	nufacturer
kε	e table test.			
	Rigid floor	r and wall mou	unted. Unit ba	ase is mounte
	seismic w	all mount brac	cket using (2)) 3/8in ASTM
	Painted ca	arbon steel en	closure and	framing

moon mo	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.

541.241.2102 derek@manwillSE.com www.manwillSE.com



SPECIAL SEISMIC CERTIFICATION

UUT 14 DOCUMENT NO.: 22031CR1.0

MANUFACTURER:		TOSHIBA INTERNATIONAL CORPORATION				
MODEL NU	JMBER:	440B8000	10ER111X-S	·		
UNIT FUNC	CTION:	BATTERY	CABINET			
SERIAL NU	JMBER:	15080153	7			
DIN	/IENSIONS	(in)	WEIGHT	RES	. FRE	EQ. (Hz)
DEPTH	WIDTH	HEIGHT	(lb)	F-B	S-9	S V
37.2	32.1	73.6	2,389	N/A	N/A	A N/A
CODE & CI	RITERIA:	2019 CBC ICC-ES AC156				
TEST LAB	ORATORY:	ENVIRONMENTAL TESTING LABORATORY				
REPORT &	REPORT & DATE:		SQ37-1502-01, Rev. 3 December 31, 2			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	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 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

MANUFAC	TURER:	TOSHIBA INTERNATIONAL CORPORATION						
MODEL NU	JMBER:	440B3000	17ER111X-S	JAIL		UO,	/ 10/2	
UNIT FUNC	CTION:	BATTERY	CABINET					
SERIAL NU	JMBER:	14040151	140401513					
DIN	/IENSIONS	(in)	WEIGHT	RES	RES. FREQ. (Hz)			
DEPTH	WIDTH	HEIGHT	(lb)	F-B	S-	S	V	
37.4	20.1	65.3	1,224	N/A	N/	Ά	N/A	
CODE & CI	RITERIA:	2019 CBC ICC-ES AC156						
TEST LAB	ORATORY:	ENVIRONMENTAL TESTING LABORATORY						
REPORT &	REPORT & DATE:		SQ37-1502-01, Rev. 3 December 31, 2			2018		
S _{DS} (g)	z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V}	(g)	A_R	_{IG-V} (g)	
2.0	1	3.20	2.40	1.68	,		0.68	
2.5	0	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.



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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 UPS DOCUMENT NO.: 22031 CR1.0

DIGIT:	1 2 3 4 5 6 7 8 9 10		14 15 16 17
SAMPLE	: 4 4 0 0 F 3 F 5 0 0	F A B	E O - S
DIGIT	DIGIT DESCRIPTION	CODES	DEFINITIONS
1-2	Product Line	44	4400 Series
3-4	Product Version	00	UPS Voltage Topology 208/120 In and Out (3Phase/4 Wire+G)
5	Input Voltage	В	208V Iso Xfmr (3-Phase/3-Wire +Gnd)
		F	208/120V 4 wire + Gnd – (UPS Voltage platform, No Transformer)
		Н	380/220V Auto-Xfmr (3-Phase/4-Wire +Gnd)
		I	400/230V Auto-Xfmr (3-Phase/4-Wire +Gnd)
		J	415/240V Auto-Xfmr (3-Phase/4-Wire +Gnd)
		K	480/277V Auto-Xfmr (3-Phase/4-Wire +Gnd)
		M	380V Iso Xfmr (3-Phase/3-Wire +Gnd)
		KN	400V Iso Xfmr (3-Phase/3-Wire +Gnd)
		Pyyyyy	415V Iso Xfmr (3-Phase/3-Wire +Gnd)
		S	480V Iso Xfmr (3-Phase/3-Wire +Gnd)
		X	No separate Alternate bypass (11th digit only)
6	Input/Output Phases	3	3 Phase Input/3 Phase Output
7	Output Voltage Options	See 5	Same options as Digit 5
8-10	kVA Capacity	100 -0	10kVA Output Power
		150	15kVA Output Power
	DVI	200 20kVA Output Power	
	O BY.N	250	25kVA Output Power
		300	30kVA Output Power
	DAT	400	40kVA Output Power
	CUIDAI	5000/	50kVA Output Power
		600	60kVA Output Power
		800	80kVA Output Power
11	Alternate Bypass Voltage	See 5	Same options as Digit 5
12	Output Frequency	5	50Hz (Set Hard)
		6	60Hz (Set Hard)
		BIATIO	Auto-sense (Standard)
13	Internal Batteries	BILD	Internal Batteries (15 to 50kVA only), no transformers)
		X	No Internal Batteries
14	Destination	E	Europe
		N	North America
15	OEM Vendor Code	n	Code may vary, specific to OEM Vendor (branding changes only)
		X	Not used
16-17	Seismic Construction Designator	D	Seismic Construction





ATTACHMENT 3: MODEL NOMENCLATURE

SPECIAL SEISMIC CERTIFICATION

DOCUMENT NO.: 22031CR1.0

4400 AUXILIARY CABINET (10-30kVA)

DIGIT: SAMPLE	1 2 3 4 5 6 7 8 9 10 E: 4 4 0 A 3 0 0 M F P	11 12 13 X - S	
DIGIT	DIGIT DESCRIPTION	CODES	DEFINITIONS
1-2	Product Line	44	4400 Series
3	Revision Number	0	4400 Revision 0
4	Product Designator	Α	Auxiliary cabinet with MBS/PDU/SubFeed Breakers, no transformer
5-7	kVA Capacity	100	10kVA Output Power
		150	15kVA Output Power
		200	20kVA Output Power
		250	25kVA Output Power
		300	30kVA Output Power
8	MBS Option	M	3 breaker scheme with SKRU
		RXLUE	No MBS installed
9	MBS Voltage	F X Y Y Y Y Y	208/120V 4 wire + Gnd
		X	No MBS installed
10	Power Distribution Panel	P (MA)	42-Pole PDP (Power Distribution Panel)
			Blank if no Power Distribution Panel installed
11	OEM Vendor Code	n	Code may vary, specific to OEM Vendor (branding changes only)
		0xP-0	A Not used
12-13	Seismic Construction Designator	D	Seismic Construction







ATTACHMENT 3: MODEL NOMENCLATURE

SPECIAL SEISMIC CERTIFICATION

DOCUMENT NO.: 22031CR1.0

4400 AUXILIARY CABINET (40-80kVA)

DIGIT: SAMPLE	1 2 3 4 5 6 7 8 9 10 : 4 4 0 A 5 0 0 M F P		14 15 16 17 18
DIGIT	DIGIT DESCRIPTION	CODES	DEFINITIONS
1-2	Product Line	44	4400 Series
3	Revision Number	0	4400 Revision 0
4	Product Designator	Α	Auxiliary cabinet with MBS/PDU/SubFeed Breakers, no transform
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	RECUL	208/120V 4 wire + Gnd
		X	No MBS installed
10	Power Distribution Panel located at Tope-Lef	t P	42-Pole PDP (Power Distribution Panel)
	Slot	S	SubFeed Breaker Panel
		X	No distribution module installed
11	Number of SubFeed Breakers located at Top	- 1	1 SubFeed Breaker
	Left Slot	0SP-0	2 SubFeed Breakers
		3	3 SubFeed Breakers
		X	No SubFeed breaker module installed
12	Amperage of SubFeed Breakers located at	lohamm:	100A SubFeed Breaker(s)
	Top-Left Slot	В	150A SubFeed Breaker(s)
		C	200A SubFeed Breaker(s)
	\\\C\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	xU8/1	No SubFeed breaker module installed
13	[50-80kVA] Power Distribution Panel located	Part	42-Pole PDP (Power Distribution Panel)
	at Tope-Right Slot	S	SubFeed Breaker Panel
		X	No distribution module installed
14	[50-80kVA] Number of SubFeed Breakers	1	1 SubFeed Breaker
	located at Top-Right Slot	2	2 SubFeed Breakers
	34	8/3/11	3 SubFeed Breakers
		XILD	No SubFeed breaker module installed
15	[50-80kVA] Amperage of SubFeed Breakers	Α	100A SubFeed Breaker(s)
	located at Top-Right Slot	В	150A SubFeed Breaker(s)
		С	200A SubFeed Breaker(s)
		Х	No SubFeed breaker module installed
16	OEM Vendor Code	n	Code may vary, specific to OEM Vendor (branding changes only
		Χ	Not used
17-18	Seismic Construction Designator	D	Seismic Construction



TOSHIBA

ATTACHMENT 3: MODEL NOMENCLATURE

SPECIAL SEISMIC CERTIFICATION

DOCUMENT NO.: 22031CR1.0

4400 BATTERY CABINET

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 010 10 minutes (80kVA)
	(kVA specific) 017 17 minutes (30kVA)
	020 20 minutes (50kVA)
	Varies for different UPS units
11	Battery Type Enersys
12	DC Bus Nominal Voltage R 288V
13	Number of Cabinets 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 OEM Vendor (branding changes only)
	X Not used
17-18	Seismic Construction Designator D Seismic Construction

