

APPLICATION FOR OSHPD PREAPPROVAL

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

OSHPD Preapproval of Manufacturer's Certification (OPM) Type: New Renewal Update to Pre-CBC 2013 OPA Number: Manufacturer Information Manufacturer's Technical Representative: Bob Vreeland Mailing Address: Skytron US, 5085 Corporate Exchange Blvd SE, Grand Rapids, MI 49512 Telephone: (616) 656-1189 Email: byreeland @skytron.us Product Information Product Name: Integrity 175 and 215 Sterilizer Integrity 175 (ASSV-AH06-120R, ASSV-AH06-120F), Integrity 175SG (ASSV-AH06-208R, ASSV-AH06-208F, ASSV-AH06-208F, ASSV-AH06-480R, ASSV-AH06-480R), Integrity 215 (ASSV-AB09-120F), Integrity 215 (ASSV-AB09-120F), Integrity 215 (ASSV-AB09-208R, ASSV-AB09-208R, ASSV-AB09-	OF MANUFACTURER'S CERTIFICATION (OPM) APPLICATION #: OPM-0325-13								
Manufacturer Information Manufacturer: Skytron LLC. Manufacturer's Technical Representative: Bob Vreeland Mailing Address: Skytron US, 5085 Corporate Exchange Blvd SE, Grand Rapids, MI 49512 Telephone: [616) 656-1189 Product Information Product Name: Integrity 175 and 215 Sterilizers Product Type: Sterilizer Integrity 175 (ASSV-AH06-120R, ASSV-AH06-120F), Integrity 175SG (ASSV-AH06-208R, ASSV-AH06-208F, ASSV-AH06-208F, ASSV-AH06-480R, ASSV-AH06-480P, Integrity 215 (ASSV-AB09-120R, ASSV-AB09-208F, ASSV-AB09-208F, ASSV-AB09-208F, ASSV-AB09-208F, ASSV-AB09-208F, ASSV-AB09-480R) General Description: Integrity Sterilizers provide superior performance within a compact foot print. An integrated water recirculation system reduces water usage. Simple touch screen controls make for ease of operation. Full steam jacket assures precise temperature control. Applicant Company Name: ISAT Seismic Bracing Contact Person: William V Joerger Mailing Address: 1020 Crews Road, Suite Q, Matthews NC 28105 Telephone: 510-714-0216 Email: wvjoerger@isatsb.com I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2013. Signature of Applicant: Warch 2, 2016									
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"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"





Page 1 of 2

OFFICE USE ONLY



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Registered Design Professional Preparing Engineering Recommendations							
Company ISAT Seismic Bracing Name:							
Name: William V Joerger California License Number: S4545							
Mailing Address: 1020 Crews Rd, Matthews NC 28105							
Telephone: 510-714-0216 Email: wvjoerger@isatsb.com							
OSHPD Special Seismic Certification Preapproval (OSP)							
 □ Special Seismic Certification is preapproved under OSP- (Separate application for OSP is required) □ Special Seismic Certification is no preapproved 							
Certification Method(s)							
☐ Testing in accordance with: ☐ ICC-ES AC156 ☐ FM 1950-10 ☐ Other* (Please Specify):							
Equipment is considered to be rugged. OPM is for anchorage to concrete slabs.							
*Use of criteria other than those adopted by the California Building Standards Code, 2013 (CBSC 2013) for component supports and attachments are not permitted. For distribution system, interior partition wall, and suspended ceiling seismic bracings, test criteria other than those adopted in the CBSC 2013 may be used when approved by OSHPD prior to testing. BY: Jeffrey Enzler							
Experience Data DATE: 05/11/2016							
Combination of Testing, Analysis, and/or Experience Data (Please Specify):							
List of Attachments Supporting the Manufacturer's Certification							
 ☐ Test Report ☐ Other(s) (Please Specify): 							
OFFICE USE ONLY – OSHPD APPROVAL VALID FOR CBC 2013 ONLY							
Signature:							
Print Name: Jeffrey Enzler							
Title: DSE							
Condition of Approval (if applicable):							

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Page 2 of 2



A Division of Tomarco Contractor Specialties

Submittal Documents

OPM-0325-13

OSHPD OPM-0325-13

SUPPORT AND ATTACHMENT CONSTRUCTION DRAWINGS INTEGRITY 175 AND 215 STERILIZERS

SKYTRON, LLC

BUILDING

ISAT 1020 Crews Road Suite Q Matthews, N.C. 28105 704-841-4080

"Empowered by Experience"

W V Jego May 16

REV 1

OSHPD OPM-0325-13 DWG - i

FILE NO.: CLT-0216-029



OSHPD OPM-0325-13

SKYTRON INTEGRITY 175 AND 215 STERILIZERS

CONSTRUCTION DRAWING INDEX

	EOR CODE.	
INDEX	DEOK COM	
Cover Page	OSI JPG	рi
Cover Page Index Page General Notes	OPM-0325-13	рII
General Notes	BY: Jeffrey Enzler	p 1
Attachment Notes	n	p 2
Sterilizer Equipment at Grade	DATE: 05/11/2016	р3
Sterilizer Equipment at Elevated Slab		p 4
Miscellaneous Steel	BUILDING CODE	p 5
	BUILDING	

OSHPD OPM-0325-13

MANUFACTURE: SKYTRON **EQUIPMENT TYPE: STERILIZERS**

GENERAL NOTES:

- 1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2013. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2013.
- 2. SEISMIC CRITERIA USED: $S_{DS} = 2.5$ $I_P = 1.5$ ap = 1.0 Rp = 1.5 (OTHER EQUIPMENT). FOR z/h = 0 FpH = 1.13 AND FOR z/h ≤ 1.0 FpH = 3.00 AND FpV = 0.50.
- 3. SUPPORT AND ATTACHMENT FORCES ARE DETERMINED USING ASCE 7-10 CHAPTER 13 "SEISMIC DESIGN REQUIREMENTS FOR NONSTRUCTURAL COMPONENTS". AN OVERSTRENGTH FACTOR Ω_0 = 1.5 IS USED FOR CONCRETE MATERIALS PER ASCE 7-10 SUPPLEMENT 1 TABLE 13.6-1. LOADS SHOWN ARE STRENGTH DESIGN LOADS PER CBC 2013 SECTION 1909A.
- 4. THIS PREAPPROVAL COVERS ONLY THE SUPPORTS AND ATTACHMENTS OF THE EQUIPMENT TO THE STRUCTURE.
- 5. STEEL MATERIALS: ANGLES AND PLATE ASTM A36, ALL THREAD ROD ASTM F1554 GRADE36 (Fu = 58 KSI). BOLTS SUPPLIED BY SKYTRON ARE ISO 898 CLASS 12.9 (FU = 177 KSI).
- 6. CONCRETE SLABS:
 - a. FOR ELEVATED SOLID CONCRETE SLABS: 6" THICKNESS OF NORMAL WEIGHT CONCRETE WITH 3000 PSI MINIMUM STRENGTH.
 - b. METAL DECK: 3" DEEP COMPOSITE STEEL DECK, 20 GAGE MINIMUM, 4 1/2 INCH MINIMUM BOTTOM FLUTE WIDTH AND FLUTE SPACING OF 12", WITH 3 1/4 INCH SAND LIGHT WEIGHT CONCRETE CONCRETE COVER AT 3000 PSI MINIMUM STRENGTH.
 - c. FOR SLAB ON GRADE: 6" THICKNESS NORMAL WEIGHT CONCRETE AT 3000 PSI MINIMUM STRENGTH.
- 7. POST-INSTALLED CONCRETE ANCHORS: HILTI KWIK BOLT TZ (ESR-1917) STAINLESS STEEL 5/8" DIAMETER x 4 3/4" MIN. HOLE DEPTH (4.00" EFFECTIVE EMBEDMENT) AND 60 FT-LBS INSTALLATION TORQUE (SUPPLIED BY INSTALLATION CONTRACTOR).
- 8. EXCERCISE DUE CARE WHEN DRILLING POST-INSTALLED ANCHORS TO AVOID DAMAGING CONCRETE REINFORCEMENT OR

RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD

- 1. CONFIRM THE MATERIAL PROPERTIES AND THICKNESS OF THE CONCRETE SLAB TO WHICH THE EQUIPMENT IS ATTACHED MEETS THE REQUIREMENTS OF THIS OPM.
- 2. PROVIDE A PLAN FOR INSPECTION OF SUPPORTS AND ATTACHMENTS AND VERIFY ITS IMPLEMENTATION.
- 3. CONFIRM THE SPECIFIED MINIMUM CONCRETE EDGE DISTANCES ARE MAINTAINED BASED ON THE ACTUAL EQUIPMENT LOCATION. VERIFY THAT EXISTING OR NEW ANCHORS ARE AN ADEQUATE DISTANCE FROM THIS UNIT'S ATTACHMENT.
- 4. VERIFY THAT THE EXISITING STRUCTURE IS ADEQUATE FOR THE IMPOSED DEAD, LATERAL AND TENSION FORCES SHOWN IN ADDTION TO ALL OTHER LOADS.
- 5. VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH CBC 2013 AND WITH THE OPM-0325-13 DETAILS INCLUDING MATERIALS AND DIMENSIONS OF THE SUPPORT WHERE THE ATTACHMENTS ARE MADE AGREE WITH THE INFORMATION SHOWN.
- 6. VERIFY THAT THE PROJECT SPECIFIC 55 AND z/h VALUES RESULT IN SEISMIC FORCES (Eh AND EV) DO NOT EXCEED THE VALUES
- 7. DESIGN THE SUPPLEMENTAL STEEL BELOW THE SLAB (PAGE "MISC STEEL") AND DETAIL THE CONNECTIONS TO STRUCTURE.

OPM-0325-13 SKYTRON INTEGRITY 175 AND 215 STERILIZERS GENERAL NOTES



\$ 4545 EXP 06/30/2016

DATE: 05/06/13 REV NO: 1

SCALE

PAGE N.T.S. **GEN NOTES**

OSHPD OPM-0325-13

MANUFACTURE: SKYTRON EQUIPMENT TYPE: STERILIZERS

ATTACHMENT NOTES:

- 1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON THE CBC 2013. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2013.
- 2. PERIODIC SPECIAL INSPECTION PER CBC 2013 SECTION 1705A AND TABLE 1705A.3 INCLUDING VERIFICATION OF ANCHOR TYPE, ANCHOR DIMENSIONS, CONCRETE TYPE, CONCRETE COMPRESSIVE STRENGTH, ANCHOR SPACING, EDGE DISTANCES, CONCRETE MEMBER THICKNESS, TIGHTENING TORQUE, HOLE DIMENSIONS, ANCHOR EMBEDMENT AND ADHERENCE TO THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS. IN ADDITION, FOLLOW THE PROVISIONS OF THE 2013 CALIFONIA BUILDING CODE SECTION 1913A.7.2 BY CONFIRMING THE INSTALLATION TORQUE SPECIFIED BY THE MANUFACTURER. TESTING IS NOT TO OCCUR UNTIL A MINIMUM OF 24 HOURS HAS ELAPSED AFTER THE INSTALLATION OF THE SUBJECT ANCHORS. TESTING SHALL BE DONE IN THE PRESENCE OF THE SPECIAL INSPECTOR. TEST 50% OF THE ANCHORS FOR EACH PIECE OF EQUIPMENT. USING A CALIBRATED TORQUE WRENCH VERIFY THE INSTALLATION TORQUE IS OBTAINED WITHIN 1/2 TURN OF THE NUT. REPORT OF TEST RESULTS ARE TO BE SUBMITTED TO THE ENFORCEMENT AGENGY. THE SEOR SHALL POVIDE REMEDIAL ANCHORAGE DETAILS IN THE EVENT THAT AN ANCHOR FAILS TO MEET THE TEST REQUIREMENTS.
- 3. STRENGTH DESIGN WAS USED FOR ANCHOR FORCE CALCULATIONS INCLUDING Ω_0 PER ACI 318-11 WHERE REQUIRED FOR ATTACHMENT TO CONCRETE.

Equipment Data			~ O	Seismic Design Forces at Grade		Seismic Design Forces at Elevated		
Model Series	Weight	ex (in)	ey (in)	ez (in)	Vu (lbs.)	Tu (lbs.)	Vu (lbs.)	Tu (lbs.)
175	1688	0.10	0.375	37.25	488	2,352	1,248	4,360
215	2340	0.00	0.375	37.25	05 667 00	2,493	1,778	4,680

- 1. WEIGHTS AND MOMENTS ARE FACTORED LOADS USING STRENGTH DESIGN AND INCLUDE THE FOLLOWING FACTORS: DL = 0.9, FpH AT GRADE = 1.13, FpH ELEVATED = 3.00 AND FpV = 0.5.
- 2. FORCES ARE AT STRENGTH DESIGN LEVEL AND INCLUDE A CONCRETE OVERSTRENGTH FACTOR Ω_0 = 1.5.

MODEL NUMBERS INCLUDED IN THIS OPM:

INTEGRITY 175 ASSV-AH06-120R, ASSV-AH06-120F / 2016

INTEGRITY 175SG ASSV-AH06-208R, ASSV-AH06-208F, ASSV-AH06-480R, ASSV-AH06-480F

INTEGRITY 215 ASSV-AB09-120F, ASSV-AB09-120F

INTEGRITY 215SG ASSV-AB09-208F, ASSV-AB09-480R, ASSV-AB09-480F

OPM-0325-13 SKYTRON INTEGRITY-175 AND 215 STERILIZERS ATTACHMENT NOTES



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DRAWN BY: WVJ DATE: 02/19/16 REVISED BY: WVJ

DATE: 05/06/16 REV NO: 1

SCALE

SCALE PAGE N.T.S. ATTACH NOTE:





