Development Services

From Concept to Construction

Phone: 503-823-7300 Email: bds@portlandoregon.gov 1900 SW 4th Ave, Portland, OR 97201
More Contact Info (http://www.portlandoregon.gov//bds/article/519984)

APPEAL SUMMARY

Status: Decision Rendered

Appeal ID: 24875	**Project Address:** 2801 N Gantenbein Ave
Hearing Date: 5/19/21	**Appellant Name:** Ryan Hastings
Case No.: E-001	**Appellant Phone:** 9719787562
Appeal Type: Electrical	**Plans Examiner/Inspector:** David Barnhart
Project Type: commercial	**Stories:** 5 **Occupancy:** I-2 / B at Basement Level **Construction Type:** Type I
Building/Business Name: Legacy Emanuel Hospital	**Fire Sprinklers:** Yes -
Appeal Involves: Alteration of an existing structure,Correction of a violation	**LUR or Permit Application No.:** 21-039204-FA
Plan Submitted Option: pdf [File 1]	**Proposed use:** Hospital - Central Sterile Department

APPEAL INFORMATION SHEET

Appeal item 1

Code Section	110.26A
Requires	Equipment that may need examination, adjustment, servicing, or maintenance while energized must have working space provided in accordance with the prescribed clearances based on voltage.
Code Modification or Alternate Requested	The intent of this appeal, as requested by Dave Barnhart is to document that the 208V control panel associated with sterilizer #5 will at no point be services or troubleshot without first being de-energized. Attached is documentation of signage and policies.
Proposed Design	To ensure that the 208V control panel associated with sterilizer #5 will at no point be services or troubleshot without first being de-energized. Attached is documentation of signage and policies.
Reason for alternative	This past fall, two (2) sterilizers failed at Emanuel Hospital. Legacy purchased two (2) current models of the Steris sterilizers to be direct replacements in the existing space. The new sterilizers have a 208v control panel on the right side of the equipment that is immovable. The long term plan is to relocate these appliances to the new tower once ready, and proper spacing between units has been accounted for in that design. However, space limitations in the existing space left the width clearance for sterilizer 5's control panel at 20". That is short of what 110.26A would require if the equipment was to be serviced while energized. However, Legacy and Steris have provided signage and written policy that at no point is this equipment to be services or diagnosed while live.

APPEAL DECISION

Electrical equipment lockout process for Sterilizer #5 control panel: Granted provided the equipment is moved to new location with compliant spacing prior to 05-19-2024.

Appellant may contact John Butler (503 865-6427) or e-mail at John.Butler@portlandoregon.gov with questions.

The Administrative Appeal Board finds with the conditions noted, that the information submitted by the appellant demonstrates that the approved modifications or alternate methods are consistent with the intent of the code; do not lessen health, safety, accessibility, life, fire safety or structural requirements; and that special conditions unique to this project make strict application of those code sections impractical.

Pursuant to City Code Chapter 24.10, you may appeal this decision to the Building Code Board of Appeal within 90 calendar days of the date this decision is published. For information on the appeals process, go to www.portlandoregon.gov/bds/appealsinfo, call (503) 823-7300 or come in to the Development Services Center.

Stantec

Memo

To:	David Worthylake	From:	Mark Peckover, PE
	Legacy Health System		Stantec
File:	Emanuel Medical Center	Date:	May 4, 2021

Reference: Sterilizer Installation

Thank you for taking the time to show me the installation of the new sterilizer in the Lower Level of Emanuel Medical Center.

Based on our review of the installation, we have concluded that with the additional signage and labeling described below your installation would be compliant with NFPA 70 requirements.

First of all, based on the Definitions section in Article 100, the sterilizer's power termination boxes are only required to be Accessible (as applied to equipment). This means the termination boxes are only required to be "capable of being reached for operation, renewal, and inspection." There is not a requirement in this installation for the equipment to be Readily Accessible.

As we discussed, the room housing the sterilizers is under Legacy's supervision and control. Our recommendation is to install signage in the room that prohibits the examination, adjustment, servicing, or maintenance of any exposed electrical parts while energized. Prohibiting this type of work removes the requirements of NEC Art. 110.26(A).

We recommend improving the labeling of the disconnects and the sterilizer power termination boxes so it is clear which disconnect applies to which sterilizer. This could be a large number, colored tape, or other clearly visible indication of which disconnect applies to which sterilizer.

These measures, combined with Legacy's existing lock out tag out procedures, appear to create an installation that is meets or exceeds the minimum requirements of the National Electrical Code – 2020 ed.

Please let me know if you have any questions or comments. Thank you.

Stantec Consulting Services Inc.

Mark Peckover, PE, LEED(R) AP
PRINCIPAL

Phone: 503-273 0094
Mark.Peckover@Stantec.com

Cc: Mike White, Stantec

May 6, 2021

David R. Asbury
Director of Facility Operations
Legacy Emanuel Medical Center
2801 N Glantenbein Ave.
Portland, OR 97227
Dasbury@lhs.org

Dear Mr. Asbury,

The Amsco 400 Steam Sterilizer is intended to be serviced with power removed from the system. There are multiple indications in the operator manual and on the equipment (see labeling on equipment enclosed with this letter). The sterilizer is not intended to have the electrical items serviced with power energized and covers off.

The Amsco 400 Steam Sterilizer has been designed to meet UL61010-1 (UL Standard for Safety Electrical Equipment for Measurement, Control, and Laboratory Use; Part 1: General Requirements) and UL61010-2-040 (UL Standard for Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 2-040: Particular Requirements for Sterilizers and Washer-Disinfectors Used to Treat Medical Materials). Intertek Testing Services is our testing laboratory recognized as a nationally approved laboratory.

These standards guide the electrical design and components of the system. The report completed to document the approval is well documented and changes to the design require review, testing and documentation update by STERIS and Intertek. Any changes outside of STERIS also require review and approval by an Intertek Field Inspector as changes will void the approval process.

In addition to the electrical safety standards and mechanical standards, the Amsco 400 Steam Sterilizer is a medical device which is under the oversight of the FDA. Changes to the device need to be reviewed by STERIS and depending on the outcome may need to be submitted to the FDA for their acceptance.

Sincerely,

Mark E. Chiffon
STERIS Corporation
Director, Research and Development

ENCLOSURES (Engineering Drawings)

93918-099 Label, Warning (Lockout – Tagout)
150371-001 Decal, Warning
Amsco 400 Authorization to Mark

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Total Quality. Assured.

AUTHORIZATION TO MARK

This authorizes the application of the Certification Mark(s) shown below to the models described in the Product(s) Covered section when made in accordance with the conditions set forth in the Certification Agreement and Listing Report. This authorization also applies to multiple listee model(s) identified on the correlation page of the Listing Report.

This document is the property of Intertek Testing Services and is not transferable. The certification mark(s) may be applied only at the location of the Party Authorized To Apply Mark.

Applicant:	Steris Corporation	**Manufacturer:**	Steris Mexico, S de R.L. DE C.V.
Address:	5960 Heisley Road Mentor, OH 44060	**Address:**	Avenida Avante #790 Parque Industrial Guadalupe Guadalupe, Nuevo Leon, 67190
Country:	USA	**Country:**	Mexico
Contact:	Mr. Tom Schack	**Contact:**	Mr. Jose Nieto
Phone:	(440) 392-7654	**Phone:**	(011-52)-81-8008-8435
FAX:	N/A	**FAX:**	(011-52)-81-8008-8871
Email:	Tom_Schack@steris.com	**Email:**	Jose_Nieto@steris.com

Party Authorized To Apply Mark: Same as Manufacturer
Report Issuing Office: Columbus, OH

Control Number: 3100112 **Authorized by:** Ramon Bd

for Dean Davidson, Certification Manager

C ETL CM US LISTED
Intertek

This document supersedes all previous Authorizations to Mark for the noted Report Number.

Intertek Testing Services NA Inc.
545 East Algonquin Road, Arlington Heights, IL 60005
Telephone 800-345-3851 or 847-439-5667 Fax 312-283-1672

Standard(s):

Safety Requirements For Electrical Equipment For Measurement, Control, And Laboratory Use – Part 1: General Requirements [UL 61010-1:2012 Ed.3+R:29Apr2016];

Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 1: General Requirements [CSA C22.2#61010-1-12:2012 Ed.3];

Safety Requirements For Electrical Equipment For Measurement, Control, And Laboratory Use - Part 2-040: Particular Requirements For Sterilizers And Washer-Disinfectors Used To Treat Medical Materials [UL 61010-2-040:2016 Ed.2];

Safety Requirements For Electrical Equipment For Measurement, Control, And Laboratory Use — Part 2-040: Particular Requirements For Sterilizers And Washer-Disinfectors Used To Treat Medical Materials [CSA C22.2#61010-2-040:2016 Ed.2];

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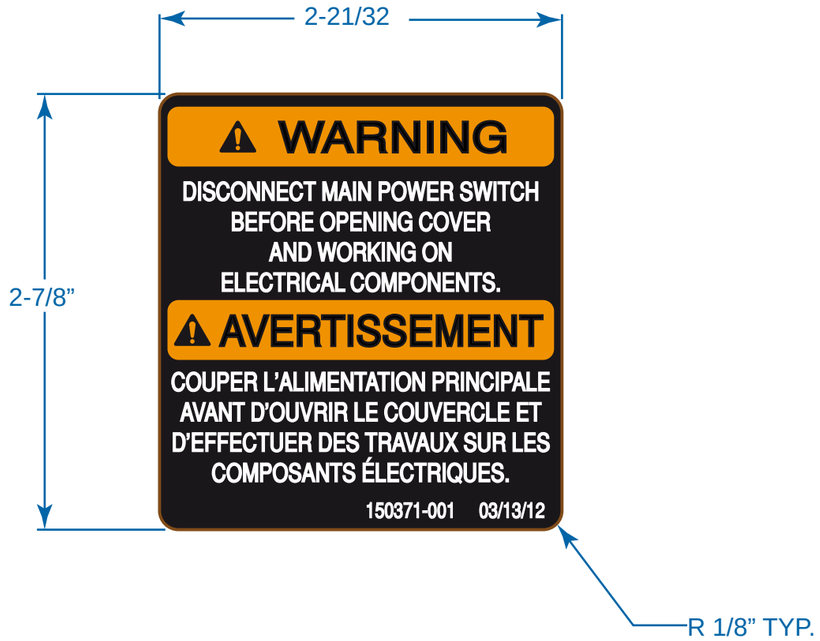
Total Quality. Assured.

AUTHORIZATION TO MARK

Product:	Steam Sterilizer
Brand Name:	AMSCO 400 SERIES, AMSCO CENTURY SERIES, AMSCO 430 LS and AMSCO 630 LS SERIES
Models:	26 x 26 Sterilizers: 39SL, 39SLC, S-39SL, S-39SLC, V-1261, V-1262, V-1263, V-1264, P-1261, P-1262, P-1263, P-1264, SV-1261, LS-1261, SV-1262, LS-1262, SV-1263, LS-1263, SV-1264, LS-1264 26 x 37.5 Sterilizers: 36H, 36HC, S-36H, S-36HC, 48H, 48HC, S-48H, S-48HC, 60H, 60HC, S-60HC, S-60HC, P-136H, P-148H, P-160H, SV-136H, LS-136H, SV-148H, LS-148H, SV-160H, LS-160H, 36SL, 36SLC, S-36SL, S-36SLC, 48SL, 48SLC, 60SL, 60SLC, S-60SL, S-60SLC, P-136S, P-148S, P-160S, SV-136S, LS-136S, SV-148S, LS-148S, SV-160S, LS-160S

Ref: X				
DRW. NO.	150371-001	1	SHEET OF	1

QUANTITY				PART NUMBER	ITEM NO.	PART NAME	DESCRIPTION, MATERIAL	REV NO	REVISION DATE
			XXXX	150371-001	1	DECAL, WARNING	SEE NOTES	5	03-13-12



INKS

- BLACK
- SAFETY ORANGE PMS 152 C

COATINGS

- LAMINATION

MANUFACTURING COLORS (Nonprinting)

- CARRIER 1
- CARRIER 1

CORNER RADIUS= R 1/8

PDF. - B SIZE

NOTES:

1. “WARNING” AND “AVERTISSEMENT” TO BE METALIC ON SAFETY ORANGE.
2. ALL OTHER GRAPHICS TO BE METALLIC ON BLACK.
3. MATERIAL SPECIFICATIONS AND MANUFACTURER TO BE IN ACCORDANCE WITH STERIS DWG. 150822-474.
4. ARTWORK TO BE SUPPLIED BY STERIS CONCURREN ENGINEERING.
5. TOLERANCE ON ALL DIMENSIONS TO BE ±1/32.

TOLERANCE STANDARD UNLESS OTHERWISE NOTED			FRACTIONAL ±1/64 DECIMAL ±005 ANGULARITY ± ° MACH. SURF. 125		
4	06-29-01	010165			
3	10-20-97	970204			
2	04-26-88	880066			
1	09-27-85	850177	5	03-13-12	120017
NO.	DATE	E.C.N NUMBER	NO.	DATE	E.C.N. NUMBER
REVISIONS			REVISIONS		

STERIS®

STERIS Corporation
Mentor, OH

TITLE: DECAL, WARNING (BI-LINGUAL)

FIRST MADE FOR: FIRST_MADE_FOR

DWN	CKD	ENG	MFG.	C.D.
JWG	WN	JET		
DATE 12/84	DATE 12-28-84	DATE 01/85	DATE	DATE

DWG. NO. 150371-001

1 **SHEET OF** 1