

NATIONAL FIRE PROTECTION ASSOCIATION

The leading information and knowledge resource on fire, electrical and related hazards

MEMORANDUM

TO:	Technical Committee on Medical Equipment
FROM:	Elena Carroll, Project Administrator
DATE:	November 20, 2018
SUBJECT:	NFPA 99 First Draft TC FINAL Ballot Results (A2020)

According to the final ballot results, all ballot items received the necessary affirmative votes to pass ballot with the exception of **First Revision No. 1040** as shown in the attached report.

When a First Revision fails Ballot, the changes proposed in the failed Revision shall be considered rejected and shall be deleted from the First Draft. Failed Revisions shall be redesignated as a Committee Input and shall be published in the Input section of the First Draft Report.

14 Members Eligible to Vote

1 Members Not Returned (Connor)

The attached report shows the number of affirmative, negative, and abstaining votes as well as the explanation of the vote for <u>each</u> revision.

To pass ballot, <u>each</u> revision requires: (1) a simple majority of those eligible to vote and (2) an affirmative vote of $^{2}/_{3}$ of ballots returned. See Sections 3.3.4.3.(c) and 4.3.10.1 of the *Regulations Governing the Development of NFPA Standards*.

****"and te	sting" was removed***
10.2 Perfo	prmance Criteriaand Testing for Patient Care–Related Electrical Appliances and Equipment
omitter Infor	mation Verification
Committee:	HEA-MED
Submittal Date	e: Wed Aug 08 11:53:04 EDT 2018
mmittee Sta	tement
Committee Statement:	The title of section 10.3 is "Testing requirements- patient care related appliances and equipment" so "testing" is redundant in the title for 10.2.
Response Message:	FR-1013-NFPA 99-2018
llot Posults	
I his item h	as passed ballot
14 Eligible V	oters
1 Not Retur	med
12 Affirmativ	e All
1 Affirmativ	e with Comments
0 Negative	with Comments
0 Abstentio	n
Not Returned	
Connor, Charle	es
Affirmative A	П
Anicello. John	J.
Beebe, Chad I	<u>=</u> .
Carr. Lisa	
Cowles Charl	es
Dagenais Day	vid A
Ferrari Keith	
Gwynn Pame	la
Linschultz Als	n an
Safdie Ezra R	
Sandler Lawr	
Scarlett Kovin	
Scanell, Revir	





Affirmative with Comment

Goodman, Gerald R.

None

Negative with Comment

Beebe, Chad E.

I disagree with the definition in the insertion of the term "indoor use". I understand that many of the UL listings are specific to indoor use I don't think that the definition should include the statement and essentially prohibit the use outdoors. The term relocatable power tap is being used in this document generically and just happens to coincide with the UL listing terminology. Additionally, requirements shouldn't be included in the definitions.

Dagenais, David A.

Indoor use is a requirement and requirements should not be in definitions.

A.10 Con: UL 1 requ	0.2.3.6 sideration should be given to certification of relocatable power taps (<u>RPTs)</u> in accordance with
Con: UL 1 requ	sideration should be given to certification of relocatable power taps (<u>RPTs)</u> in accordance with
rece	irements currently in NFPA 99 and additional safety requirements, such as use of hospital-grade ptacle outlets and plugs, integrity of the enclosures, and testing for grounding and leakage current
<u>A sp</u> inter shou <u>Hea</u> <u>Star</u>	ecial purpose relocatable power tap (SPRPT), listed in accordance with UL 1363A, is only added to be a component part of an overall listed assembly. The health care outlet assembly (HCOA and be listed in accordance with UL 2930, <i>Outline of Investigation for Cord-and-Plug-Connected</i> <i>Ith Care Facility Outlet Assemblies</i> . An RPT is a device listed in accordance with UL 1363, and ard for Relocatable Power Taps.
<u>10.2</u> .	3.6.1 General.
Reloc conne moun	atable <u>Cord- and plug-connected</u> power taps shall be permitted to be used to supply power to plug acted components of a movable equipment assembly that is pole-, rack-, table-, pedestal-, or cart- ted patient care-related electrical equipment, provided that all of the following conditions are met:
<u>*</u>]	The receptacles are securely attached to the equipment assembly.
	A.10.2.3.6(1) –
Ŧ	ape, adhesive, and hook and loop fasteners are not considered to be secure means of attachment.
(1)* T 75	The sum of the ampacity <u>ampere rating</u> of all appliances connected to the outlets does not exceed by percent of the ampacity of the flexible cord supplying the outlets.
1	A.10.2.3.6.1(1)
А е (A means of meeting the requirement is through summation of nameplate ampacity of connected equipment and proactive administrative actions (e.g., education, signs). A circuit protective device e.g., circuit breaker, surge protector, supplementary protector), alone, is not considered sufficient.
Ŭ	
(2) T	he ampacity of the flexible cord is in accordance with NFPA 70.

<u>10.2.</u>	3.6.2 Power Taps Within the Patient Care Vicinity.
Cord-	- and plug-connected power taps used within the patient care vicinity shall be permitted to be used
to sup table-	pply power to plug-connected components of a movable equipment assembly that is pole-, rack-, -, pedestal-, or cart-mounted, provided that all of the following conditions are met:
(1) <u>*</u>]	The health care outlet assembly (HCOA) is securely attached to the equipment assemblies.
4	A.10.2.3.6.2(1)
- F	
<u> </u> 	Tape, adhesive, and hook-and-loop fasteners are not considered to be secure means of attachment.
(2) <u>*</u>] <u>pe</u>	The sum of the ampere rating of all appliances connected to the outlets does not exceed 75 ercent of the ampacity of the flexible cord supplying the outlets.
4	A.10.2.3.6.2(2)
	A means of meeting the requirement is through summation of nameplate ampacity of connected equipment and proactive administrative actions (e.g., education, signs). A circuit protective device (e.g., circuit breaker, surge protector, supplementary protector) alone is not considered sufficient.
(3) T	The ampacity of the flexible cord is in accordance with NEPA 70
(4) <u>1</u> v	The electrical and mechanical integrity of the assembly and its securement method are regularly verified and documented.
10.2.	3.6.3 Relocatable Power Taps (RPTs).
10.2.	3.6.3.1
Reloc	catable power taps (RPTs) shall not be used in a patient care space or vicinity.
<u>10.2.</u>	<u>3.6.3.2</u>
Powe	er taps used outside of the patient care space shall be listed.
10.2.	3.6.4 Power Taps Within the Patient Care Space.
10.2.	3.6.4.1
Speci	ial purpose relocatable power taps (SPRPTs) shall not be used within the patient care vicinity.
<u>10.2.</u>	3.6.4.2
SPRF	PTs shall be permitted to be used within the patient care space.
plemer	ntal Information
<u>Fi</u> 99_MED	Ile NameDescriptionApproved_FR-1040.docxlegislative changes - staff use only
mitter	Information Verification
Committe Submitta	ee: HEA-MED Il Date: Wed Aug 08 18:57:13 EDT 2018
nmittee	Statement
Committe Statemer	Power taps need to be suitable for their listed uses. This further clarifies the appropriate type and use locations for different power taps.

Response CI-1040-NFPA 99-2018 Message:

Ballot Results

X This item has failed ballot

- 14 Eligible Voters
- 1 Not Returned
- 6 Negative with Comments
- 7 Affirmative All
- 0 Affirmative with Comments
- 0 Abstention

Not Returned

Connor, Charles

Negative with Comment

Beebe, Chad E.

I disagree that health care outlet assemblies (HCOA) should be mandated within the patient care vicinity. There are many situations that wouldn't require an HCOA that depend on the category for the patient. The way this is written, a category 3 patient care vicinity would only permit an HCOA. It doesn't make any sense to require this type of assembly when the level grounding (the primary justification for such a device) isn't required beyond that of any normal receptacle.

Carr, Lisa

10.2.3.6.4.1 is unreasonable. To not allow SPRPTs in the patient vicinity, we are effecting patient care. We have been actively replacing our RPTs and SPRPTs with ones Joint Commission has required. This would effect mainly the O.R.s where there could be 2 SPRPTs depending on the complexity of the case. Adding this verbage leaves hospitals open for citations, could cause a delay in patient care and be money wasted on all the SPRPTs hospitals have already purchased to comply with Joint Commission standards. This would be almost impossible to comply with.

Dagenais, David A.

The way this reads it implies the in a Category 3 space this would be required, this is over kill and not necessary

Goodman, Gerald R.

I am not aware of any hazards that have resulted from the use SPRPT of this type of device.

Lipschultz, Alan

In section 10.2.3.6.2(1), the term "Health Care Outlet Assembly (HCOA)" is ambiguous and undefined. By including an acronym associated with the term, there is a strong implication that this is a defined term. ||| The committee has given inadequate justification for new Section 10.2.3.6.4.1. SPRPT are commonly used today within the Patient Care Vicinity and I am not aware of any hazards that have resulted from this practice. Without an adequate safety justification, the committee has no basis for adding this restrictive language. In addition any SPRT within the Patient Space may easily migrate into the Patient Vicinity. In addition any SPRT outside of the Patient Vicinity, but still within the Patient Space, may be powering patient care devices within the Patient Vicinity. If this section is added, all of these issues will present an additional burden on healthcare facilities with no demonstrable additional safety benefit to patients.

Sandler, Lawrence S.

There is no definition of an HCOA and without the definition, it appears to be a type of SPRPT. But, SPRPTs are now prohibited in the Patient Care Vicinity. Allowing SPRPT in the Patient Care Space will likely result in allowing them in the Patient Care Vicinity because of general practice. Moving to the term HCOA but continuing with the term SPRPT introduces an ambiguity that is likely to cause interpretation problems with regulators.

Affirmative All

Anicello, John J.

Cowles, Charles
Ferrari, Keith
Gwynn, Pamela
Safdie, Ezra R.
Scarlett, Kevin A.
Sutter, Robert M.



Carr, Lisa
Cowles, Charles
Dagenais, David A.
Ferrari, Keith
Gwynn, Pamela
Lipschultz, Alan
Safdie, Ezra R.
Sandler, Lawrence S.
Scarlett, Kevin A.
Sutter, Robert M.
Affirmative with Comment
Goodman, Gerald R.
None



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Carr, Lisa
Cowles, Charles
Dagenais, David A.
Ferrari, Keith
Gwynn, Pamela
Lipschultz, Alan
Safdie, Ezra R.
Sandler, Lawrence S.
Scarlett, Kevin A.
Sutter, Robert M.
Affirmative with Comment
Goodman, Gerald R.
None



Connor, Charles

Affirmative All

Anicello, John J. Beebe, Chad E. Carr, Lisa Cowles, Charles Dagenais, David A. Ferrari, Keith Gwynn, Pamela Lipschultz, Alan Safdie, Ezra R. Sandler, Lawrence S. Scarlett, Kevin A.

Affirmative with Comment

Goodman, Gerald R.

None



Anicello, John J. Beebe, Chad E. Carr, Lisa Cowles, Charles Dagenais, David A. Ferrari, Keith Gwynn, Pamela Lipschultz, Alan Safdie, Ezra R. Sandler, Lawrence S. Scarlett, Kevin A. Sutter, Robert M.

Affirmative with Comment



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Safdie, Ezra R. Sandler, Lawrence S. Scarlett, Kevin A. Sutter, Robert M.



Ferrari, Keith Gwynn, Pamela Lipschultz, Alan Safdie, Ezra R. Sandler, Lawrence S. Scarlett, Kevin A. Sutter, Robert M.

Affirmative with Comment



Ballot Results

This item has passed ballot

- 14 Eligible Voters
- 1 Not Returned
- 12 Affirmative All
- 1 Affirmative with Comments
- 0 Negative with Comments
- 0 Abstention

Not Returned

Connor, Charles

Affirmative All

Anicello, John J. Beebe, Chad E. Carr, Lisa Cowles, Charles Dagenais, David A. Ferrari, Keith Gwynn, Pamela Lipschultz, Alan Safdie, Ezra R. Sandler, Lawrence S. Scarlett, Kevin A. Sutter, Robert M.

Affirmative with Comment

Goodman, Gerald R.

The word "open" is replaced to clarify that we are talking about locations exterior top the building. I assume that the word "top" is intended to be "to" and not referring to the top of the building.



Not Returned

Connor, Charles

Affirmative All

Anicello, John J. Beebe, Chad E. Carr, Lisa Cowles, Charles Dagenais, David A. Ferrari, Keith Gwynn, Pamela Lipschultz, Alan Safdie, Ezra R. Sandler, Lawrence S. Scarlett, Kevin A.

Affirmative with Comment



- Lipschultz, Alan
- Safdie, Ezra R.
- Sandler, Lawrence S.
- Scarlett, Kevin A.
- Sutter, Robert M.



Affirmative All

Anicello, John J. Beebe, Chad E. Carr, Lisa Cowles, Charles Dagenais, David A. Ferrari, Keith Gwynn, Pamela Lipschultz, Alan Safdie, Ezra R. Sandler, Lawrence S. Scarlett, Kevin A.

Affirmative with Comment



Scarlett, Kevin A. Sutter, Robert M. Affirmative with Comment Goodman, Gerald R. None