



National Fire Protection Association

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MEMORANDUM

TO: NEC Correlating Committee

FROM: Kimberly Shea, *Administrator, Technical Projects*

DATE: October 2, 2014

SUBJECT: NFPA 111 Second Draft Correlating Committee Meeting (A2015)

At the NFPA 111 Second Draft meeting, the Technical Committee on Emergency Power Supplies created the attached Second Revisions. In accordance with the NFPA *Regulations Governing the Development of NFPA Standards*, Section 4.4.8.4(b), the Correlating Committee shall determine by ballot whether to hold a Correlating Committee meeting to consider the development of Second Correlating Revisions for the Second Draft.

Please complete and return your ballots as soon as possible but no later than **Thursday, October 9, 2014**. As noted on the ballot form, please return the ballot to kshea@nfpa.org. You may also mail your ballot to the attention of Kim Shea at NFPA, 1 Batterymarch Park, Quincy, MA 02169.

The return of ballots is required by the Regulations Governing the Development of NFPA Standards.

Attachments: Letter Ballot

**Second Revision No. 1-NFPA 111-2014 [Section No. 4.2.2]****4.2.2***

The interruption times of the SEPSS types covered by this standard shall be as provided in [Table 4.2.2](#).

Table 4.2.2 Types of SEPSS

<u>Type</u>	<u>Interruption Time</u>
Type O	No interruptions — <u>Type VFI</u> , UPS carrying load, <u>0 0.0</u> sec
Type U	<u>Type VFD or Type VI</u> , UPS system with utility as preferred source
Type A	0.25 cycle: 0.0042 sec
Type B	1.0 cycle: 0.0167 sec
Type 10	10 sec
Type M	Manual stationary or nonautomatic — no time limit

Supplemental Information

<u>File Name</u>	<u>Description</u>
Table_4.2.2-SR1.docx	Legislative changes

Submitter Information Verification

Submitter Full Name: [Not Specified]

Organization: [Not Specified]

Street Address:

City:

State:

Zip:

Submittal Date: Wed Jul 16 13:53:40 EDT 2014

Committee Statement

Committee Statement: The changes to the table were accepted under FR-2 but the changes were not shown in Table 4.2.2 of the First Revision.

Response Message:

[Public Comment No. 1-NFPA 111-2014 \[Section No. 4.2.2\]](#)

Ballot Results

✔ **This item has passed ballot**

30 Eligible Voters

4 Not Returned

26 Affirmative All

0 Affirmative with Comments

0 Negative with Comments

0 Abstention

Not Returned

Chudasama, Khimchand H.
DeMoss, Dennis
Olson, Gary L.
Patterson, Ralph E.

Affirmative All

Allen, Ernest E.
Chisholm, Sr., Dan
Cotton, Kenneth A.
D'Antona, Jason
Dagenais, David A.
Day, Richard L.
Engelmann, Randy
Everard, William H.
Feller, Louis J.
Gregory, James R. (Skip)
Hardy, Ross M.
Hartsell, Jonathan
Loomis, Chad E.
Manche, Alan
Mills, George
Nash, Jr., Hugh O.
Niclaus, Michael D.
O'Connor, Daniel J.
Sappington, Steven R.
Schroeder, Ronald A.
Smidt, Ronald M.
Stanko, Raymond J.
Stymiest, David
Thompson, Robert E.
Walsh, Peter R.
Whittall, Herbert V.

**Second Revision No. 3-NFPA 111-2014 [Section No. 7.6.3]****7.6.3***

Any battery cells or multicell units, transfer switches, or other system components that have failed shall be replaced and so noted on test reports or records, after which the system shall be retested.

Supplemental Information

<u>File Name</u>	<u>Description</u>
111Annex_for_SR3_reviewed.docx	

Submitter Information Verification

Submitter Full Name: Christopher Coache
Organization: National Fire Protection Assoc
Street Address:
City:
State:
Zip:
Submittal Date: Fri Jul 18 08:37:09 EDT 2014

Committee Statement

Committee Statement: The risk of damage to battery terminals from too much torque is greater than the risk of connections loosening after a single discharge.

Response Message:

[Public Comment No. 2-NFPA 111-2014 \[New Section after A.7.4.5\]](#)

Ballot Results

✔ **This item has passed ballot**

30 Eligible Voters
4 Not Returned
26 Affirmative All
0 Affirmative with Comments
0 Negative with Comments
0 Abstention

Not Returned

Chudasama, Khimchand H.
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Olson, Gary L.
Patterson, Ralph E.

Affirmative All

Allen, Ernest E.
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Cotton, Kenneth A.

D'Antona, Jason
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Day, Richard L.
Engelmann, Randy
Everard, William H.
Feller, Louis J.
Gregory, James R. (Skip)
Hardy, Ross M.
Hartsell, Jonathan
Loomis, Chad E.
Manche, Alan
Mills, George
Nash, Jr., Hugh O.
Niclaus, Michael D.
O'Connor, Daniel J.
Sappington, Steven R.
Schroeder, Ronald A.
Smidt, Ronald M.
Stanko, Raymond J.
Stymiest, David
Thompson, Robert E.
Walsh, Peter R.
Whittall, Herbert V.



Second Revision No. 4-NFPA 111-2014 [Section No. 7.6.5.1 [Excluding any Sub-Sections]]

Ohmic measurements shall be taken of every cell within the battery system after approximately 6 months of operation following the full load test described in [7.6.2.3](#), or 2 weeks following the most recent discharge thereafter.

Supplemental Information

<u>File Name</u>	<u>Description</u>
Annex_for_SR4.docx	attachment for SR4

Submitter Information Verification

Submitter Full Name: Christopher Coache
Organization: National Fire Protection Assoc
Street Address:
City:
State:
Zip:
Submittal Date: Fri Jul 18 08:44:07 EDT 2014

Committee Statement

Committee Statement: New A.7.6.4.1 explains why a base line is not established when a battery is first installed.

Response Message:

[Public Comment No. 3-NFPA 111-2014 \[New Section after A.7.4.5\]](#)

Ballot Results

✔ This item has passed ballot

30 Eligible Voters
4 Not Returned
26 Affirmative All
0 Affirmative with Comments
0 Negative with Comments
0 Abstention

Not Returned

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Whittall, Herbert V.

**Second Revision No. 2-NFPA 111-2014 [Section No. 8.4.4]****8.4.4**

The SEPSS shall be tested annually at 60 percent load for 60 percent duration of its class, by one of the following methods:

- (1) At 100% of its rated load for 60% duration of its rated class
- (2) At 60% of its rated load for 100% duration of its class

Submitter Information Verification

Submitter Full Name: [Not Specified]

Organization: [Not Specified]

Street Address:

City:

State:

Zip:

Submittal Date: Wed Jul 16 14:02:39 EDT 2014

Committee Statement

Committee Statement: Battery capacity during a discharge drops off fairly linearly until it gets near its rated end-voltage, at which time voltage drops off rapidly (known as "the knee of the curve"). The only way to know for sure that a battery has the capacity to support its rated load for its rated time duration is to do a full load test for the full rated duration. Even then the test only tells you that it passed this time, but does not guarantee it will pass the next time. In practice, however, full load testing is not always feasible or even advisable, as deep discharging a battery stresses the battery and reduces its life expectancy. A reasonable compromise is to do a partial load test. IEEE 450* identifies two methods of capacity testing: rate-adjusted and time-adjusted. For batteries sized for less than one hour, the time-adjusted method is recommended. For batteries sized for greater than one hour, either can be used - but not both at the same time!

*See: IEEE Std 450(TM)-2010, para 7.4 "Capacity test methods"

Response**Message:**

Public Comment No. 4-NFPA 111-2014 [Section No. 8.4.4]

Ballot Results

✔ **This item has passed ballot**

30 Eligible Voters

4 Not Returned

26 Affirmative All

0 Affirmative with Comments

0 Negative with Comments

0 Abstention

Not Returned

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