

Subject 1008

June 15, 2018

SUMMARY OF TOPICS

The following topics for the Standard for Transfer Switch Equipment, UL 1008, are being recirculated:

- 2. Revisions to Address the Grounding and Bonding of Neutral Circuits**
- 3. Revision to the Overload, Endurance, and Short Circuit Testing**
- 4. Miscellaneous Revisions Regarding Inlet Assemblies, Mechanical Interlocking of Single Pole Inlets and Readily Accessible Service Disconnect Switches**
- 7. Revisions to Annex E to Cover Freestanding Complete Packaged Fire Pump Power Transfer Units**
- 8. Revisions to Address System Available Fault Calculations for Momentary Paralleling Situations**
- 10. Revised Requirements for Monitoring the Temperature on Inlets**

COMMENTS DUE: JULY 30, 2018

For your convenience in review, proposed additions to the previously proposed requirements dated (2018-01-19) are shown underlined and proposed deletions are shown ~~lined-out~~.

2. Revisions to Address the Grounding and Bonding of Neutral Circuits

RATIONALE

While no STP comments were received on this topic, changes are being proposed to address comments submitted by the CSA Technical Subcommittee and agreed to by the CANENA THSC 121A WG6, Transfer Switch Equipment.

PROPOSAL

8.2.3.1 Equipment intended to function as service equipment on ac services involving a neutral shall have a neutral assembly located within the service equipment enclosure. The neutral assembly shall have an adequate number of suitable pressure-terminal connectors, clamps, or other acceptable means for connecting the following:

- a) The incoming (grounded) neutral conductor;
- b) The corresponding outgoing (load) conductor, where present;
- c) The service-grounding conductor;

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- d) The bonding conductor to the enclosure; and
- e) The bonding conductor to the service conduit (or the equivalent).

The connectors, clamps, etc., shall be grouped together and shall use pressure-type wire connectors for all field-made terminations. Terminal sizes shall be determined in accordance with Tables 16, 17, and 41 of the Canadian Electrical Code, Part I.

Where the neutral assembly is located within the service-disconnecting compartment, a second neutral assembly shall be installed outside the service-disconnecting compartment and within the service equipment enclosure.

Where the neutral assembly is located within the service-disconnecting compartment, and where a neutral between the normal power supply source and the emergency power supply source is not interrupted in the transfer switch, a second neutral assembly shall be installed outside the service-disconnecting compartment and within the service equipment enclosure and shall be connected to the neutral assembly located in the service-disconnecting compartment by the conductor sized in accordance with Annex A1, Item 1.

Note: This requirement is intended for a transfer switch that is used with the generator which has a neutral, that is solidly interconnected with the neutral of the supply system in the transfer switch (i.e. where the neutral of the emergency generator is not grounded at the generator, and where a single connection to the grounding electrode is made at the service equipment in order to prevent the possibility of a ground fault at the emergency equipment from bypassing the ground fault protection sensor at the service equipment).

3. Revision to the Overload, Endurance, and Short Circuit Testing

RATIONALE

Responses to comments have been posted within the UL 1699B Proposal Review Work Area dated (2018-01-19).

PROPOSAL

Table 25
Available short-circuit current
(refer to 9.13.3.11, and 9.13.3.18, E3A1.1, and E3A3.1)

Switch rating	Current in amperes ^a	Power factor ^b	Time duration test time in seconds, minimum ^c
100 A or less	5,000	0.40 – 0.50	0.008
101 – 400 A	10,000	0.40 – 0.50	0.025
401 A – <u>1000 A</u>	20 times rating, but not less than 10,000 A	0.25 – 0.30	0.050
1001 A and greater	20 times rating	0.20 or less	0.050

^a This value may be higher at the option of the manufacturer. The value shall be one of the acceptable values shown in Table 1.

^b This value may be lower at the option of the manufacturer.

^c Test times are minimum values for the time duration test for Type A transfer switches in accordance with 9.13.3.11. In addition to the minimum value test, any other time durations may be tested at the option of the manufacturer but shall be one of the values shown in Table 27.

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Table 27
Acceptable short-circuit current time durations in seconds
 (refer to 5.2.4.2, 9.13.3.11)

0.008
0.017
0.025
0.033
0.050
0.067
0.083
0.100

4. Miscellaneous Revisions Regarding Inlet Assemblies, Mechanical Interlocking of Single Pole Inlets and Readily Accessible Service Disconnect Switches

Responses to comments have been posted within the UL 1699B Proposal Review Work Area dated 2018-01-19. No changes have been made to the previously proposed revision. Note that the purpose of a recirculation of comments only is intended solely to provide STP members the opportunity to review the comments and responses, and to either reconsider their vote or cast a first-time vote. New comments on the previously proposed revision for this Topic will not be provided with a specific response. Any additionally desired changes should be submitted as a new proposal request via CSDS.

7. Revisions to Annex E to Cover Freestanding Complete Packaged Fire Pump Power Transfer Units

RATIONALE

Responses to comments have been posted within the UL 1699B Proposal Review Work Area dated (2018-01-19).

PROPOSAL