

SUMMARY OF TOPICS

The following topics were discussed at the meeting of the Standards Technical Panel for Power Conversion Equipment:

- 1. Update on current projects for the Standard for Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy, UL 61800-5-1**
- 2. Update on the Standard for Adjustable Speed Electrical Power Drive Systems - Part 5-2: Safety Requirements - Functional, UL 61800-5-2**
- 3. Update from the Drives with Power and Control Cable Assemblies Task Group**
- 4. Update from the DC Bus Connection Task Group**
- 5. Update from the Drive Tap Conductor Protection Task Group**
- 6. Update from the Test Reduction Task Group**
- 7. Update from the Servo Drive Amplifier Task Group**
- 8. Update from the IGBT Task Group**
- 9. Update from the Multiple Motors Task Group**
- 10. Update from the Spacings Task Group**
- 11. Update from the UL 61800-5-2 Task Group**
- 12. National Electrical Code proposals**
- 13. Discussion of the following proposal to serve as Preliminary review: Clarification of Clause DVD.2.1.3.6 and DVD.2.1.3.7**
- 14. Discussion of the following proposal to serve as Preliminary review: Clarification of Scope Regarding DC Rated Drives**
- 15. Discussion of the following proposal to serve as Preliminary review: Heat Cycling Test for Spring-loaded Bus Bar Joints**
- 16. Discussion of the following proposal to serve as Preliminary review: Alternate means of supplying installation and operation manuals**

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17. Discussion of the following proposal to serve as Preliminary review: Editorial Correction to Section 5.2.3.6DV.1.1.4 & 5.2.3.6DV.1.3.1

18. Discussion of the following proposal to serve as Preliminary review: Editorial Correction to Section 5.2.3.6DV.1.6.2

19. Discussion of the following proposal to serve as Preliminary review: Test Configuration change in Section 5.2.3.6.2DV.2.1.1

20. New Business Item: UL Harmonization with IEC 61800-5-1 Edition 2.1

A meeting of the Standards Technical Panel of UL for Power Conversion Equipment was held on March 19, 2018 at 8:30 am. The purpose of the meeting was to discuss the following topics above.

The purpose of the STP meeting report is to briefly summarize discussions held during the meeting, and to document any resulting outcomes, including planned future action.

CALL TO ORDER, ANNOUNCEMENTS, INTRODUCTION OF MEMBERS, GUESTS, AND OBSERVERS

The STP Chair welcomed meeting attendees and asked everyone to introduce themselves. He explained the schedule for the day and noted additional agenda items. UL's Patent Policy and Antitrust Rules were discussed. UL's Patent Policy can be found at <http://ulstandards.ul.com/develop-standards/stps/ul-patent-policy/>. UL's Antitrust Rules can be found at <http://ulstandards.ul.com/develop-standards/stps/ul-antitrust-rules/>.

ANNOUNCEMENTS AND REPORTS FROM THE STP PROJECT MANAGER

The Project Manager circulated an attendance list.

The current balance of the STP was discussed at the meeting and is shown in the following table:

Interest Category	Number of Members	Interest Category	Number of Members
Producers	8 (33%)	Government	0 (0%)
Testing & Standards Organizations	5 (21%)	Consumer	0 (0%)
Supply Chain	4 (17%)	General Interest	4 (17%)
AHJs	0 (0%)	Commercial/Industrial User	3 (13%)

UL's goal is to have no interest category comprise more than one-third of the STP membership.

FUTURE MEETING SCHEDULE

UL intends to schedule the next meeting in conjunction with the NEMA SC7 meeting. It is anticipated that it will be held at the same location in 2019.

REPORTS FROM TASK GROUPS AND DISCUSSION OF PROPOSALS AND AGENDA TOPICS

For your convenience in review, proposed additions to existing requirements are shown underlined and proposed deletions are shown ~~lined-out~~.

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1. Update on current projects for the Standard for Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy, UL 61800-5-1

DISCUSSION

Discussion item submitted by: Casey Granata, UL Inc.

The STP Project Manager provided an update on the status of current projects for the Standard for Adjustable Speed Electrical Power Drive Systems – Part 5-1: Safety Requirements – Electrical, Thermal and Energy, UL 61800-5-1. The STP Project Manager informed the STP that there are (2) recirculation work areas currently open for UL 61800-5-1.

2. Update on the Standard for Adjustable Speed Electrical Power Drive Systems - Part 5-2: Safety Requirements - Functional, UL 61800-5-2

DISCUSSION

Discussion item submitted by: Casey Granata, UL Inc.

It was noted that the FDIS for the next edition of IEC 61800-5-2 has been approved. Seth Carlton noted that the task group is currently working on the new edition and should be completed by the end of the summer 2018.

3. Update from the Drives with Power and Control Cable Assemblies Task Group

DISCUSSION

Discussion item submitted by: Casey Granata, UL Inc.

It was noted that the task group needs a volunteer to chair the group. Joe Van Lanen would like to take this opportunity back to Rockwell to find someone to chair this group. It was noted that if we do not have a chair by the 2019 meeting, this group will be disbanded. A list of all STP 508C Task Groups can be found at the end of this meeting report.

4. Update from the DC Bus Connection Task Group

DISCUSSION

Discussion item submitted by: Seth Carlton, UL LLC.

It was noted that the Task Group is a relevant and is addressing an important issue. This task group is still working and is active. The task group noted that they will have an update at the 2019 STP meeting with a proposal. Additional meeting participants volunteered to join the task group.

5. Update from the Drive Tap Conductor Protection Task Group

DISCUSSION

Discussion item submitted by: Seth Carlton, UL LLC.

It was noted that the Task Group is a relevant and is addressing an important issue. This Task Group is still working and is active. The task group noted that they will have a proposal in CSDS by fall 2018. Additional meeting participants volunteered to join the task group.

6. Update from the Test Reduction Task Group

DISCUSSION

Discussion item submitted by: Joe Pavia, Eaton

It was noted that the Task Group is a relevant and is addressing an important issue. No proposals are anticipated at this time but the work continues and the task group will be asked to share any updates at the 2019 STP meeting.

7. Update from the Servo Drive Amplifier Task Group

DISCUSSION

Discussion item submitted by: Seth Carlton, UL LLC.

This task group was given the task of the modular drive proposal. Now that the proposal has proceeded to ballot and recirculation, the task group chair has recommended that the task group be disbanded. The STP Chair concurred and disbanded the task group with thanks to the task group Chair and task group members. A new task group was formed to cover modular drives.

8. Update from the IGBT Task Group

DISCUSSION

Discussion item submitted by: Seth Carlton, UL LLC.

This task group chair informed the STP that their work is complete. The proposal that they submitted has reached consensus during ballot. The Project Manager noted that this proposal will be included in the next revision pages. The task group chair has recommended that the group be disbanded. The STP Chair concurred and disbanded the task group with thanks to the task group Chair and task group members.

9. Update from the Multiple Motors Task Group

DISCUSSION

Discussion item submitted by: Seth Carlton, UL LLC.

This task group chair informed the STP that their work is complete. The proposal that they submitted is currently in recirculation. The Project Manager noted that this proposal will be included in the next revision pages if consensus is maintained. The task group chair has recommended that the group be disbanded. The STP Chair concurred and disbanded the task group with thanks to the task group Chair and task group members.

10. Update from the Spacings Task Group

DISCUSSION

Discussion item submitted by: Seth Carlton, UL LLC.

This task group chair informed the STP that their work is complete. The proposal that they submitted is currently in recirculation. The Project Manager noted that this proposal will be included in the next revision pages if consensus is maintained. The task group chair has recommended that the group be disbanded. The STP Chair concurred and disbanded the task group with thanks to the task group Chair and task group members.

11. Update from the UL 61800-5-2 Task Group

DISCUSSION

Discussion item submitted by: Seth Carlton, UL LLC.

This task group chair informed the STP that their work is complete. The chair noted that this group needs to include the deviations and will be completing this by the end of April 2018. Next steps include the task group entering the proposal request in CSDS for preliminary review.

12. National Electrical Code proposals

DISCUSSION

Discussion item submitted by: Seth Carlton, UL LLC.

Seth Carlton informed the STP of the current NFPA 70 proposals open that directly effect drives.

PI 2744: Output conductor protection – A proposal to address this NEC code change in UL 61800-1 is currently out for ballot.

PI 2745: Short Circuit and Ground Fault Protection – A proposal to address this NEC code change in UL 61800-1 is currently out for ballot.

PI 3300: Several Motors on One Branch Circuit – Development of a proposal to UL 61800-1 has been assigned to the Output Protection Task Group.

Note: For the 2019 STP Meeting, this will be an agenda item which Seth will provide further updates to these proposals.

13. Discussion of the following proposal to serve as Preliminary review: Clarification of Clause DVD.2.1.3.6 and DVD.2.1.3.7

DISCUSSION

Discussion item submitted by: Seth Carlton, UL LLC.

The STP meeting served as preliminary review for this proposal. The STP had no objections to the proposal but concluded that additional revisions were needed. The proposal will be returned to the submitter to be revised and then resubmitted for ballot.