



RESEARCH FOUNDATION

RESEARCH FOR THE NFPA MISSION

Electrical Circuit Data Collection

Meeting Minutes

CONFERENCE CALL

MONDAY, 12 AUGUST 2019; 1:00 AM – 12:00 PM ET

1) Call to Order and Attendees. The meeting was called to order at 11:00 am ET by Casey Grant of the Fire Protection Research Foundation. The following were in attendance:

Mike Anthony, University of Michigan (MI)
Tom Domitrovich, Eaton Corporation (MO)
Mark Earley, NFPA (SC)
Lou Galante, APPA and University of Iowa (IA)
Casey Grant, FPRF (MA)
Brian Liebel, Illuminating Engineering Society of North America (NY)
Alan Manche, Schneider Electric (KY)
Robert Osborne, UL LLC (NC)
Jeff Sargent, NFPA (MA)
Troy Savage, Mazzetti (VA)
Billie Zidek, APPA (VA)

For reference, the updated Panel Roster is included herein as Attachment A. The meeting agenda was indicated to review the status of this research effort, and clarify any applicable project details.

2) Review and Discussion of the Project. Troy Savage led a general review of the project, using the slides contained in Attachment B. The group engaged in a discussion and the following comments, questions and observations were mentioned:

- Some extra time has been required to iron-out various contractual details. These are now primarily resolved and we will soon be proceeding with full focus. This delay should not be a problem, and we expect the project to have deliverables in time for the next revision cycle of the NEC.

- Clarify guidance for the safe use of the measurement equipment? The plan is to use licensed electricians for installing, handling, and removing the measurement equipment.
- Review the target spaces, and how these were determined. The target spaces are addressed in task 2(a), and these were determined based on earlier extensive discussion. As project resources allow, additional locations like hospital operating rooms will be considered.
- How much collected data will be enough? This will be addressed as the project proceeds, and ultimately the full answer to this question will be determined by the full codes & standards process.
- It was pointed out that the recent debate by CMP-02 on receptacles in the recent revision cycle is applicable to this project. Casey Grant will coordinate with Jeff Sargent to provide the applicable information to Troy Savage.
- It was agreed that as the project proceeds we will need to be sensitive to field operational concerns, such as making sure that intrusion in a facility is minimized.
- The next steps will be the Panel re-grouping at task 3 for review of the Data Management Plan, which will need to be scheduled around the October time frame.
- It was agreed to set-up the next conference call for 60 minutes for 21/Oct/2019 at 11:00 am ET.
- Additional literature on this topic is available on the Standards Michigan website at <https://standardsmichigan.com/in-op-design>. This is an IEEE paper on microsystem criteria.

3) Next Steps and Wrap-Up. The next conference call will be on 21/Oct/2019 at 11:00 am ET for 60 minutes. Casey will forward the group an outlook invite to get this on everyone's schedule.

4) Adjournment. Panel members were thanked for their participation, and the meeting adjourned at 11:45 am.

(Meeting Summary by C. Grant, 12 August 2019)

<u>Attachments</u>		
Attachment	Description	No. of Pages
A	Updated Project Roster	1
B	Slides for Project Review	4



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PROJECT CONTACTS

Last Updated: 2 May 2019

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Fire Protection Research Foundation
**Electrical Circuit Data
Collection Research
Project**

Technical Committee Meeting
August 12, 2019

Project Financial Support: American Society of Heating, Refrigeration and Air Conditioning Engineers (ASHRAE) and the National Fire Protection Association (NFPA)

Meeting Purpose

- Check-in.
- Reorient as we begin project work.
- Technical Committee provide any additional input.

Project Goals

- Implement data collection plan to provide sufficient receptacle demand and load data to provide a technical basis for considering revisions to the service, feeder and branch circuit design requirements in the NEC.
- Provide sufficient data for targeted spaces and occupancies.
- Set clear approach for future efforts addressing other occupancies.

Targeted Space Summary

	(A) Business Occupancy	(B) Educational Occupancy	(C) Healthcare Occupancy
Comparable Spaces	(1) Breakrooms	(1) Breakrooms	(1) Breakrooms
	(2) General Office Areas	(2) General Office Areas	(2) General Office Areas
	(3) Conference Rooms	(3) Conference Rooms	(3) Conference Rooms
	(4) Cubicles	(4) Cubicles	(4) Cubicles
Unique Spaces	TBD	TBD	TBD



Aim

- Provide technical basis for considering revisions to the service, feeder and branch circuit design requirements in the National Electrical Code.
- Affected NFPA Documents: NFPA70 (NEC), Articles 210 through 230.

Discussion

- Alpha Test.
- Meters.
- Data providers.
- Are there other spaces to target within occupancies (as project resources allow)?
- Any concerns with the (RFP) proposed approach?
- Other concerns?



Troy Savage
Project Manager

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