

**Standards Project Liaison Subcommittee   
(SPLS)**

**MINUTES**

**ASHRAE Annual Meeting**

**June 24, 2020**

*Approved by SPLS October 26, 2020*

Table of Contents

[2. Approval of Minutes 4](#_Toc47515959)

[3. Action items 4](#_Toc47515960)

[4. Public Review Drafts 4](#_Toc47515961)

[5. Membership 7](#_Toc47515962)

[6. Proposed TPS Changes 13](#_Toc47515963)

[7. New Business 14](#_Toc47515964)

[8. Liaison Reports 14](#_Toc47515965)

[9. Next Meeting 14](#_Toc47515966)

[10. Adjournment 14](#_Toc47515967)

[11. Attachments 14](#_Toc47515968)

**SPLS Action Items**

**As of June 24, 2020**

Updates noted in red

|  |  |  |  |
| --- | --- | --- | --- |
| **October 9, 2019 Conference CAll** | | | |
| **AI#** | **Action Item** | **Assigned** | **Status** |
| 1 | Craig Wray to work with the chair of SPC 33 to help get the committee in balance. On today’s agenda | Wray | Closed |
| **June 2019 Annual Meeting Kansas City** | | | |
| **AI#** | **Action Item** | **Assigned** | **Status** |
| 3 | Action item: An action item was assigned to Susanna Hanson (Mike Woodford) and the chair of SPC 152 to get this committee in balance.  2 New applicants – general maybe more – making progress – keep open | Woodford | Open |
| **January 15, 2019 Winter Meeting** | | | |
| **AI#** | **Action Item** | **Assigned** | **Status** |
| 3 | SPLS Adhoc committee to develop proposed procedures for a “prepublication review” or “limited non-public review.” Larry Schoen, Chip Barnaby, Mike Gallagher and Dave Robin agreed to participate in the Adhoc and report back to SPLS at a future meeting.  PPIS handled this with designated reviewer - close | SPLS Adhoc  Hanson | Closed |

**Standards Project Liaison Subcommittee   
June 24, 2020**

**MINUTES**

**1. Introductions and Review of Agenda**

The SPLS Virtual Annual Meeting Conference Call was called to order on June 24, 2020 at approximately 10:00 am ET. Chair Susanna Hanson welcomed members and guests and reviewed the ASHRAE Code of Ethics. The following members, guests and staff were in attendance:

|  |  |
| --- | --- |
| **Members Present**  Susanna Hanson  Chip Barnaby  Thomas Cappellin  Douglas Fick  Michael Gallagher  Walter Grondzik  Larry Kouma  Karl Peterman  Erick Phelps  Lawrence Schoen  Christian Taber  Rusty Tharp  Adrienne Thomle  Michael Woodford  Craig Wray | **Members Not Present**  Richard Swierczyna    **Staff**  Steve Ferguson, Sr. MOS  Denise Latham, *AA*  Susan LeBlanc, *SA*  Ryan Shanley, *MOS-International*  **Guests**  None |

# Approval of Minutes

It was moved by Craig Wray seconded by Chip Barnaby:

**1** That the SPLS March Meeting Minutes be approved.

**MOTION PASSED. 13-0-0 CNV**

# Action items

SPLS reviewed the [action items](#Actionitems) as noted above.

# Public Review Drafts

It was moved by Chip Barnaby and seconded by Craig Wray:

**2** That BSR/ASHRAE Addendum *e* to ANSI/ASHRAE Standard 15-2019, *Safety Standard for Refrigeration Systems*, be approved for publication public review.

**MOTION PASSED.** 13-0-1[[1]](#footnote-1), CNV

It was moved by Chip Barnaby and seconded by Rusty Tharp:

**3** That BSR/ASHRAE Addendum *k* to ANSI/ASHRAE Standard 34-2019, *Designation and Safety Classification of Refrigerants*, be approved for publication public review.

**MOTION PASSED.** 14-0-0, CNV

It was moved by Chip Barnaby and seconded by Rusty Tharp:

**4** That BSR/ASHRAE Addendum *o* to ANSI/ASHRAE/IES Standard 90.1-2019*, Standard for Buildings Except Low-Rise Residential Buildings,* be approved for publication public review.

**MOTION PASSED.** 12-0-2[[2]](#footnote-2), CNV

It was moved by Walter Grondzik and seconded by Craig Wray:

**5** That BSR/ANSI/ASHRAE/ICC/USGBC/IES Addendum *w* to ANSI/ASHRAE/ICC/ USGBC/IES Standard 189.1-2017, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings,* be approved for publication public review.

**MOTION PASSED.** 12-0-2[[3]](#footnote-3), CNV

It was moved by Walter Grondzik and seconded by Craig Wray:

**6** That BSR/ANSI/ASHRAE/ICC/USGBC/IES Addendum *aq* to ANSI/ASHRAE/ICC/ USGBC/IES Standard 189.1-2017, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings,* be approved for publication public review.

**MOTION PASSED.** 12-0-2[[4]](#footnote-4), CNV

It was moved by Walter Grondzik and seconded by Craig Wray:

**7** That BSR/ANSI/ASHRAE/ICC/USGBC/IES Addendum *ax* to ANSI/ASHRAE/ICC/ USGBC/IES Standard 189.1-2017, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings,* be approved for publication public review.

**MOTION PASSED.** 12-0-2[[5]](#footnote-5), CNV

It was moved by Walter Grondzik and seconded by Craig Wray:

**8** That BSR/ANSI/ASHRAE/ICC/USGBC/IES Addendum *bc* to ANSI/ASHRAE/ICC/ USGBC/IES Standard 189.1-2017, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings,* be approved for publication public review.

**MOTION PASSED.** 12-0-2[[6]](#footnote-6), CNV

It was moved by Walter Grondzik and seconded by Craig Wray:

**9** That BSR/ANSI/ASHRAE/ICC/USGBC/IES Addendum *bi* to ANSI/ASHRAE/ICC/ USGBC/IES Standard 189.1-2017, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings,* be approved for publication public review.

**MOTION PASSED.** 12-0-2[[7]](#footnote-7), CNV

It was moved by Walter Grondzik and seconded by Craig Wray:

**10** That BSR/ANSI/ASHRAE/ICC/USGBC/IES Addendum *bj* to ANSI/ASHRAE/ICC/ USGBC/IES Standard 189.1-2017, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings,* be approved for publication public review.

**MOTION PASSED.** 12-0-2[[8]](#footnote-8), CNV

It was moved by Walter Grondzik and seconded by Craig Wray:

**11** That BSR/ANSI/ASHRAE/ICC/USGBC/IES Addendum *bo* to ANSI/ASHRAE/ICC/ USGBC/IES Standard 189.1-2017, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings,* be approved for publication public review.

**MOTION PASSED.** 12-0-2[[9]](#footnote-9), CNV

It was moved by Walter Grondzik and seconded by Craig Wray:

**12** That BSR/ANSI/ASHRAE/ICC/USGBC/IES Addendum *bq* to ANSI/ASHRAE/ICC/ USGBC/IES Standard 189.1-2017, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings,* be approved for publication public review.

**MOTION PASSED.** 12-0-2[[10]](#footnote-10), CNV

It was moved by Walter Grondzik and seconded by Craig Wray:

**13** That BSR/ANSI/ASHRAE/ICC/USGBC/IES Addendum *br* to ANSI/ASHRAE/ICC/ USGBC/IES Standard 189.1-2017, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings,* be approved for publication public review.

**MOTION PASSED.** 12-0-2[[11]](#footnote-11), CNV

It was moved by Walter Grondzik and seconded by Craig Wray:

**14** That BSR/ANSI/ASHRAE/ICC/USGBC/IES Addendum *bv* to ANSI/ASHRAE/ICC/ USGBC/IES Standard 189.1-2017, *Standard for the Design of High-Performance Green Buildings Except Low-Rise Residential Buildings,* be approved for publication public review.

**MOTION PASSED.** 12-0-2[[12]](#footnote-12), CNV

It was moved by Larry Schoen and seconded by Craig Wray:

**15** That BSR/ASHRAE addendum *a* to ANSI/ASHRAE Standard 111, *Measurement, Testing, Adjusting And Balancing Of Building Heating, Ventilation And Air-Conditioning Systems*, be approved for publication public review.

**MOTION PASSED.** 14-0-0, CNV

It was moved by Karl Peterman and seconded by Craig Wray:

**16** That BSR/ASHRAE Addendum *b* to ANSI/ASHRAE Standard 62.2-2019, *Ventilation and Acceptable Indoor Air Quality in Residential Buildings*, be approved for publication public review.

**MOTION PASSED.** 14-0-0, CNV

# Membership

It was moved by Chip Barnaby and seconded by Craig Wray:

**17** That revisions to the membership roster for SSPC 15, *Safety Standard for Refrigeration Systems*, as shown in [Attachment](#AttA) A, be approved.

**MOTION PASSED.** 13-0-1[[13]](#footnote-13), CNV

It was moved by Chip Barnaby and seconded by Craig Wray:

**18** That revisions to the membership roster for SSPC 34, *Designation and Safety Classification of Refrigerants*, as shown in [Attachment](#AttA) A, be approved.

**MOTION PASSED.** 13-0-1[[14]](#footnote-14), CNV

It was moved by Chip Barnaby and seconded by Craig Wray:

**19** That revisions to the membership roster for SSPC 90.1*, Standard for Buildings Except Low-Rise Residential Buildings*, as shown in [Attachment](#AttA) A, be approved.

It was moved by Chip Barnaby and seconded by Craig Wray:

**19A** That motion 19 be amended to correct the Change of Status for Don Brundage to read, Change of Status for Don Brundage from PCVM-Utility on the Envelope Subcommittee to Chair PCVM-Utility ~~on the Envelope Subcommittee~~ for a three-year term beginning July 2, 2020 and ending June 30, 2023 be approved.

**MOTION TO AMEND PASSED.** 12-0-2[[15]](#footnote-15), CNV

**AMENDED MOTION PASSED.** 12-0-2[[16]](#footnote-16), CNV

It was moved by Chip Barnaby and seconded by Craig Wray:

**20** That revisions to the membership roster for SSPC 90.2, *Energy Efficient Design of Low-Rise Residential Buildings*, as shown in [Attachment](#AttA) A, be approved.

**MOTION PASSED.** 14-0-0, CNV

It was moved by Chip Barnaby and seconded by Craig Wray:

**21** That revisions to the membership roster for SSPC 135, *BACNET-A Data Communication Protocol for Building Automation and Control Networks*, as shown in [Attachment](#AttA) A, be approved.

**MOTION PASSED.** 14-0-0, CNV

It was moved by Tom Cappellin and seconded by Craig Wray:

**22** That revisions to the membership roster for the following project committees as shown in [Attachment](#AttA) A, be approved via consent agenda.

1. SSPC 30, *Method of Testing Liquid Chillers*
2. SPC 40, *Methods of Testing for Rating Heat Operated Unitary Air-Conditioning and Heat-Pump Equipment*
3. SSPC 185, *Methods of Test to Inactivate Microorganisms in HVAC Systems With UV-C Lights*

**MOTION PASSED.** 14-0-0, CNV

It was moved by Doug Fick and seconded by Craig Wray:

**23** That revisions to the membership roster for SGPC 41, *Design, Installation and Commissioning of Variable Refrigerant Flow Systems*, as shown in [Attachment](#AttA) A, be approved.

**MOTION PASSED.** 14-0-0, CNV

It was moved by Mike Gallagher and seconded by Craig Wray:

**24** That revisions to the membership roster for SGPC 10, *Interactions Affecting the Achievement of Acceptable Indoor Environments*, as shown in [Attachment](#AttA) A, be approved.

**MOTION PASSED.** 13-0-1[[17]](#footnote-17), CNV

It was moved by Mike Gallagher and seconded by Craig Wray:

**25** That revisions to the membership roster for GPC 44, *Protecting Building Occupants from Smoke During Wildfire and Prescribed Burn Events*, as shown in [Attachment](#AttA) A, be approved.

**MOTION PASSED.** 13-0-1[[18]](#footnote-18), CNV

It was moved by Mike Gallagher and seconded by Craig Wray:

**26** That revisions to the membership roster for SPC 26, *Mechanical Refrigeration and Air Conditioning Installations Aboard Ship*, as shown in [Attachment](#AttA) A, be approved.

**MOTION PASSED.** 14-0-0, CNV

It was moved by Mike Gallagher and seconded by Craig Wray:

**27** That revisions to the membership roster for SSPC 72, *Method of Testing Open and Closed Commercial Refrigerators and Freezers*, as shown in [Attachment](#AttA) A, be approved.

**MOTION PASSED.** 14-0-0, CNV

It was moved by Walter Grondzik and seconded by Craig Wray:

**28** That revisions to the membership roster for SSPC 169, *Climatic Data for Building Design Standards*, as shown in [Attachment](#AttA) A, be approved.

**MOTION PASSED.** 14-0-0, CNV

It was moved by Walter Grondzik and seconded by Craig Wray:

**29** That revisions to the membership roster for SSPC 188, *Legionellosis: Risk Management for Building Water Systems*, as shown in [Attachment](#AttA) A, be approved.

**MOTION PASSED.** 14-0-0, CNV

It was moved by Walter Grondzik and seconded by Craig Wray:

**30** That revisions to the membership roster for SSPC 189.1, *Standard for the Design of High-Performance, Green Buildings Except Low-Rise Residential Buildings*, as shown in [Attachment](#AttA) A, be approved.

**MOTION PASSED.** 12-0-2[[19]](#footnote-19), CNV

It was moved by Walter Grondzik and seconded by Craig Wray:

**31** That revisions to the membership roster for SSPC 189.3, *Design Construction & Operation of High-Performance Sustainable Health Care Facilities*, as shown in [Attachment](#AttA) A, be approved.

**MOTION PASSED.** 13-0-1[[20]](#footnote-20), CNV

It was moved by Walter Grondzik and seconded by Craig Wray:

**32** That revisions to the membership roster for SPC 514, *Minimizing Risk of Injury and Disease Associated with Building Water Systems*, as shown in [Attachment](#AttA) A, be approved.

**MOTION PASSED.** 14-0-0, CNV

It was moved by Larry Kouma and seconded by Craig Wray:

**33** That revisions to the membership roster for the following project committees as shown in [Attachment](#AttA) A, be approved via consent agenda:

1. SSPC 90.4, *Energy Standard for Data Centers*
2. SSPC 140, *Standard Method of Test for the Evaluation of Building Energy Analysis Computer Programs*
3. SSPC 145*, Test Method for Assessing the Performance of Gas Phase Air Cleaning Equipment*
4. SSPC 154, *Ventilation for Commercial Cooking Operations*
5. SSPC 160*, Criteria for Moisture-Control Design Analysis in Buildings*
6. SPC 191, *Standard for the Efficient Use of Water in Building Mechanical Systems*

**MOTION PASSED.** 14-0-0, CNV

It was moved by Karl Peterman and seconded by Craig Wray:

**34** That revisions to the membership roster for SGPC 13, *Specifying Building Automation Systems*, as shown in [Attachment](#AttA) A, be approved.

**MOTION PASSED.** 14-0-0, CNV

It was moved by Karl Peterman and seconded by Craig Wray:

**35** That revisions to the membership roster for SSPC 41, *Standard Methods of Measurement*, as shown in [Attachment](#AttA) A, be approved.

**MOTION PASSED.** 14-0-0, CNV

It was moved by Karl Peterman and seconded by Craig Wray:

**36** That revisions to the membership roster for SSPC 55, *Thermal Environmental Conditions for Human Occupancy*, as shown in [Attachment](#AttA) A, be approved.

**MOTION PASSED.** 13-0-1[[21]](#footnote-21), CNV

It was moved by Karl Peterman and seconded by Craig Wray:

**37** That revisions to the membership roster for SSPC 62.1, *Ventilation for Acceptable Indoor Air Quality*, as shown in [Attachment](#AttA) A, be approved.

**MOTION PASSED.** 14-0-0, CNV

It was moved by Karl Peterman and seconded by Craig Wray:

**38** That revisions to the membership roster for SSPC 161, *Air Quality Within Commercial Aircraft*, as shown in [Attachment](#AttA) A, be approved.

**MOTION PASSED.** 14-0-0, CNV

It was moved by Erick Phelps and seconded by Craig Wray:

**39** That revisions to the membership roster for the following project committees as shown in [Attachment](#AttA) A, be approved via consent agenda:

1. SSPC 100, *Energy Efficiency in Existing Buildings*
2. SPC 172, *Method of Test for Insoluble Materials in Synthetic Lubricants and HFC Refrigerant Systems*
3. SPC 210, *Method of Testing for Rating Commercial Walk-In Cooler and Freezer Equipment*

**MOTION PASSED.** 13-0-1[[22]](#footnote-22), CNV

It was moved by Erick Phelps and seconded by Craig Wray:

**40** That revisions to the membership roster for GPC 23, *Guideline for the Design and Application of Heating, Ventilation, and Air-Conditioning Equipment for Rail Passenger Vehicles*, as shown in [Attachment](#AttA) A, be approved.

**MOTION PASSED.** 14-0-0, CNV

It was moved by Larry Schoen and seconded by Craig Wray:

**41** That revisions to the membership roster for SPC 227, *Passive Building Design Standard*, as shown in [Attachment](#AttA) A, be approved.

**MOTION PASSED.** 13-0-1[[23]](#footnote-23), CNV

It was moved by Craig Wray and seconded by Doug Fick:

**42** That revisions to the membership roster for SPC 79, *Method of Testing for Fan-Coil Units*, as shown in [Attachment](#AttA) A, be approved.

**MOTION PASSED.** 14-0-0, CNV

It was moved by Christian Taber and seconded by Rusty Tharp:

**43** That revisions to the membership roster for the following project committees as shown in [Attachment](#AttA) A, be approved via consent agenda:

1. SGPC 36, *High Performance Sequences of Operation for HVAC Systems*
2. SPC 110, *Method of Testing Performance of Laboratory Fume Hoods*
3. SSPC 147*, Reducing the Release of Halogenated Refrigerants from Refrigerating and Air-Conditioning Equipment and Systems*

**MOTION PASSED.** 14-0-0, CNV

It was moved by Christian Taber and seconded by Rusty Tharp:

**44** That revisions to the membership roster for SSPC 300, *Commissioning*, as shown in [Attachment](#AttA) A, be approved.

**MOTION PASSED.** 12-0-2[[24]](#footnote-24), CNV

It was moved by Rusty Tharp and seconded by Craig Wray:

**45** That revisions to the membership roster for GPC 22, *Instrumentation for Monitoring Central Chilled Water Plant Efficiency*, as shown in [Attachment](#AttA) A, be approved.

**MOTION PASSED.** 14-0-0, CNV

It was moved by Christian Taber and seconded by Craig Wray:

**46** That revisions to the membership roster for SSPC 170, Ventilation of Health Care Facilities, as shown in [Attachment](#AttA) A, be approved.

**MOTION PASSED.** 13-0-1[[25]](#footnote-25), CNV

It was moved by Adrienne Thomle and seconded by Craig Wray:

**47** That revisions to the membership roster for the following project committees as shown in [Attachment](#AttA) A, be approved via consent agenda:

1. SPC 35, *Method of Testing Desiccants for Refrigerant Drying*
2. SPC 37, *Methods of Testing for Rating Electrically Driven Unitary Air-Conditioning and Heat Pump Equipment*
3. SSPC 52.2, *Method* *of Testing General Ventilation Air Cleaning Devices for Removal Efficiency by Particle Size*
4. SPC 229, *Protocols for Evaluating Ruleset Implementation in Building Performance Modeling Software*

**MOTION PASSED.** 14-0-0, CNV

It was moved by Adrienne Thomle and seconded by Craig Wray:

**48** That revisions to the membership roster for GPC 37, *Guidelines for the Application of Upper-Air (Upper Room) Ultraviolet Germicidal (UV-C) Devices to Control the Transmission of Airborne Pathogens*, as shown in [Attachment](#AttA) A, be approved.

**MOTION PASSED.** 13-0-1[[26]](#footnote-26), CNV

It was moved by Mike Woodford and seconded by Rusty Tharp:

**49** That revisions to the membership roster for SPC 155, *Method of Testing for Rating Commercial Space Heating Boiler Systems*, as shown in [Attachment](#AttA) A, be approved.

**MOTION PASSED.** 14-0-0, CNV

It was moved by Mike Woodford and seconded by Doug Fick:

**50** That revisions to the membership roster for SPC 196, *Method of Test for Measuring Refrigerant Leak Rates*, as shown in [Attachment](#AttA) A, be approved.

**MOTION PASSED.** 14-0-0, CNV

It was moved by Mike Woodford and seconded by Rusty Tharp:

**51** That revisions to the membership roster for GSPC 205, *Representation of Performance Data for HVAC&R and Other Facility Equipment*, as shown in [Attachment](#AttA) A, be approved.

**MOTION PASSED.** 13-0-1[[27]](#footnote-27), CNV

It was moved by Craig Wray and seconded by Larry Kouma:

**52** That revisions to the membership roster for the following project committees as shown in [Attachment](#AttA) A, be approved via consent agenda:

1. GPC 14, *Measurement of Energy, Demand and Water Savings*
2. SPC 33, *Methods of Testing Forced-Circulation Air-Cooling and Air-Heating Coils*
3. SPC 213, *Method for Calculating Moist Air Thermodynamic Properties*
4. SPC 224, *Standard for the Application of Building Information Modeling*

**MOTION PASSED.** 14-0-0, CNV

# Proposed TPS Changes

It was moved by Larry Kouma and seconded by Craig Wray:

**53** That the proposed change to the TPS for SPC 140, *Standard Method of Test for the Evaluation of Building Energy Analysis Computer Programs*, be approved as presented.

It was moved by Craig Wray and seconded by Walter Grondzik:

**MOTION PASSED.** 14-0-0, CNV

It was moved by Rusty Tharp and seconded by Craig Wray:

**54** That the proposed change to the TPS for SPC 228, *Standard Method of Evaluating Net-Zero Energy Building Performance*, be approved as presented.

It was moved by Craig Wray and seconded by Walter Grondzik:

**MOTION PASSED.** 13-0-0, CNV

It was moved by Larry Kouma and seconded by Craig Wray:

**55** That the proposed change to the TPS for Standard 223P, *Designation and Classification of Semantic Tags for Building Data*, be approved as presented and pending approval by the cognizant SSPC 135.

**MOTION PASSED.** 13-0-0, CNV

It was moved by Adrienne Thomle and seconded by Craig Wray:

**56** That the proposed change to the TPS for SPC 35, *Method of Testing Desiccants for Refrigerant Drying*, be approved as presented.

**MOTION PASSED.** 14-0-0, CNV

# New Business

It was moved by Walter Grondzik and seconded by Craig Wray:

**57** That SSPC 164, *Methods of Test for Humidifiers,* be formed as a standing cognizant committee responsible for the maintenance of Standards 164.1, *Method of Test for Residential Central-System Humidifiers*, 164.2, *Method of Test for Self-Contained Residential Humidifiers,* 164.3 *Method of Test for Commercial and Industrial Isothermal Humidifiers*, and 164.4, *Method of Test for Commercial and Industrial Adiabatic Humidifiers.*

**MOTION PASSED.** 14-0-0, CNV

It was moved by Walter Grondzik and seconded by Craig Wray:

**58** That SPC 221, *Test Method to Field-Measure and Score the Cooling and Heating Performance of an Installed Unitary HVAC System* be placed on continuous maintenance upon publication and that a standing project committee be formed*.*

**MOTION PASSED.** 13-0-1[[28]](#footnote-28) CNV

# Liaison Reports

SPLS reviewed the status of project committees and liaison reports.

# Next Meeting

SPLS Summer meeting, August TBD

# Adjournment

The conference call adjourned at approximately 1:00 pm ET

# Attachments

Attachment A



1. Rusty Tharp abstained because he is a member of the SSPC.. [↑](#footnote-ref-1)
2. Christian Taber abstained because he is a member of the SSPC. Craig Wray abstained because he is a recent past member of the SSPC. [↑](#footnote-ref-2)
3. Larry Schoen and Christian Taber abstained because they are members of the SSPC. [↑](#footnote-ref-3)
4. Larry Schoen and Christian Taber abstained because they are members of the SSPC. [↑](#footnote-ref-4)
5. Larry Schoen and Christian Taber abstained because they are members of the SSPC. [↑](#footnote-ref-5)
6. Larry Schoen and Christian Taber abstained because they are members of the SSPC. [↑](#footnote-ref-6)
7. Larry Schoen and Christian Taber abstained because they are members of the SSPC. [↑](#footnote-ref-7)
8. Larry Schoen and Christian Taber abstained because they are members of the SSPC. [↑](#footnote-ref-8)
9. Larry Schoen and Christian Taber abstained because they are members of the SSPC. [↑](#footnote-ref-9)
10. Larry Schoen and Christian Taber abstained because they are members of the SSPC. [↑](#footnote-ref-10)
11. Larry Schoen and Christian Taber abstained because they are members of the SSPC. [↑](#footnote-ref-11)
12. Larry Schoen and Christian Taber abstained because they are members of the SSPC. [↑](#footnote-ref-12)
13. Rusty Tharp abstained because he is a member of the SSPC. [↑](#footnote-ref-13)
14. Larry Schoen abstained because he missed the discussion. [↑](#footnote-ref-14)
15. Christian Taber and Craig Wray abstained because they are current or recent past members of the SSPC. [↑](#footnote-ref-15)
16. Christian Taber and Craig Wray abstained because they are current or recent past members of the SSPC. [↑](#footnote-ref-16)
17. Walter Grondzik abstained because he is a member of the committee. [↑](#footnote-ref-17)
18. Mike Gallagher abstained because he is a member of the committee. [↑](#footnote-ref-18)
19. Larry Schoen and Christian Taber abstained because they are members of the committee. [↑](#footnote-ref-19)
20. Doub Fick abstained because he is a member of the committee. [↑](#footnote-ref-20)
21. Larry Schoen abstained because he is a member of the committee. [↑](#footnote-ref-21)
22. Larry Schoen abstained because he was uncomfortable with voting via consent agenda.. [↑](#footnote-ref-22)
23. Walter Grondzik abstained because he is a member of the committee. [↑](#footnote-ref-23)
24. Walter Grondzik and Tom Cappellin abstained because they are members of the committee. [↑](#footnote-ref-24)
25. Erick Phelps abstained because he is a member of the committee. [↑](#footnote-ref-25)
26. Christian Taber abstained because he is a member of the committee. [↑](#footnote-ref-26)
27. Chip Barnaby abstained because he is a member of the committee. [↑](#footnote-ref-27)
28. Larry Schoen abstained because he felt there was insufficient rationale for the request to be placed on Continuous Maintenance. [↑](#footnote-ref-28)