MEMORANDUM

TO: Code-Making Panel 15

FROM: Sarah Caldwell, *Senior Committee Administrator*

DATE: April 15, 2024

SUBJECT: NEC® First Draft CMP Ballot Circulation (A2025)

The receipt due date of April 12, 2024, for the NEC[®] First Draft ballot has passed. In accordance with the NFPA *Regulations Governing the Development of NFPA Standards*, the preliminary First Draft ballot results are attached for your review. These results include explanation of negative votes, abstentions, and affirmative votes with comments.

24 Members Eligible to Vote

1 Members Not Returned (Skinner)

If you wish to change your vote, the change must be received at NFPA prior to **April 22, 2024 by 11:59PM** (ET). Members who did <u>not</u> return a ballot initially may do so now. **Changes to ballot votes should be submitted through the <u>NFPA Ballot Link</u>.**

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

NEC CMP-15 First Draft Ballot Circulation Report

Election:70_A2025_NEC_P15_FD_Ballot

Results by Revision

FR-9229, Global Input, See FR-9229

Eligible to Vote: 24 Not Returned: 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		Revisions made to comply with NEC Style Manual and coordinate with NFPA 99.
Negative	0	
Abstain	0	

FR-9233, Global Input, See FR-9233

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		Revisions made to comply with the NEC Style Manual
Negative	0	
Abstain	0	

FR-9240, Global Input, See FR-9240

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	20	
Affirmative with Comment	3	
Stephen M. Lipster		The panel should reconsider the action taken in subsections c and d and the reference to diesel generators in subsection e.
Craig Thelen		"Structural" revisions made to comply with the NEC Style Manual. Update to NFPA 99 extracts
Gabriel Smith		The panel should reconsider the action taken in subsection c and d and the reference to diesel generators and subsection e
Negative	0	
Abstain	0	

FR-8864, Detail, See FR-8864

Vote Selection	<u>Votes</u>	Comments
Affirmative	17	
Affirmative with Comment	3	
Stephen M. Lipster		The panel should reconsider the action taken in subsections c and d and the reference to diesel generators in subsection e.
Craig Thelen		517.30(B)(3)(a) was deleted. Part VIII of Article 692 (which is the reference being proposed for deletion) was deleted from the NEC in 2017. Fuel cells must comply with Article 692, and the reference to this Article is unnecessary.
Gabriel Smith		The panel should reconsider the action taken in subsection c and d and the reference to diesel generators and subsection e

Negative David A. Dagenais	2	This should be a direct extract from NFPA 99. adding of the words on-site is not consistent with 99
Brian E. Rock		The proposed revision confuses the enforceable mandatory requirement ("shall be") with an optional requirement ("shall be permitted") in multiple locations within the Section.
Abstain Chad E. Beebe	1	This violates the NFPA extract policy and council decision on extracts between NFPA 70 and 99. I may agree with the intent of this change, intentionally making a requirement slightly different is confusing to the users of the document. This change should not be made until the change has been made within NFPA 99

FR-8977, Detail, See FR-8977

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		Extraction language does not match existing NFPA 99 language. Section 517.20 language was revised in 2023 and has better clarity than NFPA 99 language. Since this language is not an extraction, the extraction reference was removed.
Negative	0	
Abstain	0	

FR-8979, Detail, See FR-8979

Eligible to Vote: 24 Not Returned: 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		Revised information note to clarify that it applies to (2) and (3)
Negative	0	
Abstain	0	

FR-8987, Detail, See FR-8987

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		Charging statement added prior to informational note in order to comply with the 2023 NEC Style Manual
Negative	0	
Abstain	0	

FR-9029, Detail, See FR-9029

0

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Abstain

Vote Selection	<u>Votes</u>	Comments
Affirmative	20	
Affirmative with Comment	1	
Craig Thelen		"Structural" revisions made to comply with the NEC Style Manual.
Negative	2	
David A. Dagenais		many changes show up in terraview that are not addressed in the FR-9029. In section (A(3)a and A(3)c) the words shall be required were added with no justification for the changes. in section (A(4)b)the requirement for responder radio was added and this requirement is not in NFPA 99 and section 4 should be a extract.
Chad E. Beebe		Adding the emergency responder radio communication systems to the life safety branch is out of the scope of CMP-15. This is a performance issue and extracted text from NFPA 99. With this added here, it makes the requirements for what is connected to the life safety branch different than NFPA 99 which will create confusion. For this reason, the NFPA standards council made the determination that NFPA 99 has purview over performance requirements.

FR-9100, Detail, See FR-9100

Eligible to Vote: 24 Not Returned: 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		Adds Radio coverage for first responders to provide a level of safety for first responders. NFPA 99 extract updated
Negative	0	
Abstain	0	

FR-9140, Detail, See FR-9140

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		518.2 was revised to "518.4" to comply with the NEC Style Manual
Negative	0	
Abstain	0	

FR-9212, Detail, See FR-9212

Eligible to Vote: 24 Not Returned: 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	21	
Affirmative with Comment	1	
Craig Thelen		This is revised to meet the 2023 NEC Style Manual.
Negative	1	
Brian E. Rock		The proposed revision confuses the enforceable mandatory requirement ("shall be") with an optional requirement ("shall be permitted") in multiple locations within the Section.
Abstain	0	

FR-9214, Detail, See FR-9214

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		Revised to conform with the NEC Style Manual.
Negative	0	
Abstain	0	

FR-9227, Detail, See FR-9227

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	20	
Affirmative with Comment	1	
Craig Thelen		AC Equipment for Non delayed Automatic Connection moved to new 517.44(A) to coordinate with NFPA 99.
Negative	2	
Stephen M. Lipster		Moving critical generator accessories from the life safety system to the equipment system makes no sense. It is unsafe in NFPA 99 and should be revised in that document. Allowing this revision to stand creates a scenario where a generator could be unnecessarily shut down due to the loss of the equipment branch leaving life safety branch loads unserved.
Gabriel Smith		Moving critical generator accessories from the life safety system to the equipment system makes no sense. A generator could be unnecessarily shut down due to the loss of equipment branch leaving the life safety branch loads unserved.
Abstain	0	

FR-9243, Detail, See FR-9243

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		Revisions made to comply with the NEC Style Manual.
Negative	0	
Abstain	0	

FR-9244, Detail, See FR-9244

Eligible to Vote: 24 Not Returned: 1 Michael D. Skinner

Vote SelectionVotesCommentsAffirmative22

Affirmative with Comment 1

Craig Thelen Revisions made to comply with the NEC Style Manual.

Negative 0
Abstain 0

FR-9250, Detail, See FR-9250

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection Votes Comments

Affirmative 22
Affirmative with Comment 1

Craig Thelen

Revision made to mirror the title of "517.29 Type 1 Essential Electrical Systems" and to remove the terms "nursing home and limited care facilities" from the title which could setup a potentially dangerous situation. There are nursing homes and limited care facilities that provide life support services through additional reimbursement contracts with CMS that would likely require a type 1 system. Similar language was removed from NFPA 99 via TIA that required these facilities to be

considered Category 2 – which would have also forced reductions in the electrical system components. Article 517 has been working the past couple of cycles to remove old terminology that based the requirements off of the occupancy of the building. This is a relic of those versions of the

code.

Negative 0

Abstain 0

FR-9069, Definition: Alternate Power Source., See FR-9069

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		The definition for "Alternate Power Source" is removed because it is no longer used in NFPA 99.
Negative	0	
Abstain	0	

FR-9135, Definition: Two-Fer., See FR-9135

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		This FR corrects the word to the commonly acceptable spelling.
Negative	0	
Abstain	0	

FR-9130, New Definition after Definition: Dental Office., See FR-9130

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	21	
Affirmative with Comment	1	
Craig Thelen		The words

The words "install" / "installed" are normally associated with permanent installations. Portable equipment is not permanently installed in venues covered by the "Entertainment Industry" Articles 518, 520, 525, and 530. Use of the words "deploy" / "deployed" is more descriptive of the portable equipment use and prevents misinterpretation. It also provides additional distinction from Article 590 – Temporary Installations which is often erroneously applied to portable equipment deployed under the Entertainment Articles.

Negative1Brian E. RockNo need for definition of the word "Deploy" to be

No need for definition of the word "Deploy" to be added to Article 100. "Deploy" is a commonly defined term in Merriam Webster's Dictionary.

Abstain 0

FR-9131, New Definition after Definition: Motion Picture Studio (Tel..., See FR-9131

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote SelectionVotesCommentsAffirmative21Affirmative with Comment2Brian E. RockThe title reflects exclusively "South Property of the comment of the

The title reflects exclusively "Sound" and the description address "... insulated from outside noise ..."; the purpose is inconsistently identified solely as "image capture", with no mention of sound. This purpose should be amended to "sound, image, and performance capture". The Article number in parentheses "(530)" shall follow the definition.

Craig Thelen It appears this definition was inadvertently removed from the 2023 NEC. It was submitted by CMP

#15 Task Group #2 during the 2023 revision cycle.

Negative 0
Abstain 0

FR-9133, New Definition after Definition: Pier, Floating. (Floating ..., See FR-9133

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Whender B. Skirmer		
Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		There are multiple multi circuit connectors using varying pinout configurations in wide use in portable equipment in the Entertainment Industry. This new definition coordinates section 520.68(D) requiring identification of the configurations.
Negative	0	
Abstain	0	

FR-8863, Section No. 517.1, See FR-8863

Vote Selection	<u>Votes</u>	Comments
Affirmative	21	
Affirmative with Comment	1	
Craig Thelen		The change provides clarity over the purpose of this article to also provide reliability in addition to minimizing electrical hazards. NFPA 99 and NFPA 101 references updated.
Negative	1	

Brian E. Rock

The inclusion of the phrase "ENSURE RELIABLE electrical service to the health care facility" is unacceptable, as the term "RELIABLE" is not enforceable. This Scope revision conflicts with NFPA Standards Council Decision D#11-7, assigning health care facility performance requirements to NFPA 99.

Abstain

0

0

FR-8870, Section No. 517.6, See FR-8870

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Michael D. Skinner		
Vote Selection	<u>Votes</u>	Comments
Affirmative	21	
Affirmative with Comment	1	
Craig Thelen		The reconditioned equipment requirements apply to typical electrical distribution equipment and not patient care-related equipment. 517.3 should be reserved for requirements that pertain to reconditioned electrical equipment. Other articles within this code address reconditioning, these would be consistent with article 517. Reconditioned equipment that is allowed by other sections of this code are allowed by 517.
Negative	1	
Brian E. Rock		This section does not provide support to the intent of the proposed revisions of the Public Input (PI-2613), to which it attributes these revisions. Informational Note 3 is in violation of the NEC® Style Manual (2.1.2.2) and the referenced extract to NFPA 99 is not an actual extract.

Abstain

FR-8974, Section No. 517.13(B)(1), See FR-8974

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		Metal plates can be installed in locations other than receptacles such as wall switches.
Negative	0	
Abstain	0	

FR-8850, Section No. 517.17(B), See FR-8850

Vote Selection	Votes	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		Updates extract language with NFPA 99. "Protective" was added to "overcurrent devices" and removed "current transformers" to coordinate use approved terminology with the NEC. This incorporates Global PI 4050. Additional language was added to the application of three levels of ground fault protection.
Negative	0	
Abstain	0	

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		Adds clarity since metal feeder raceways are not a recognized wiring method.
Negative	0	
Abstain	0	

FR-8955, Section No. 517.19(H), See FR-8955

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection	Votes	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		Adds diagnostic imaging to add clarity. Did not add treatment equipment as that may inadvertently add expand the requirements
Negative	0	
Abstain	0	

FR-8972, Section No. 517.20(B), See FR-8972

Eligible to Vote: 24 Not Returned : 1

Michael D. Skinner

Vote Selection	<u>Votes</u>	<u>Comments</u>
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		Section fixed to match NEC Manual of Style
Negative	0	
Abstain	0	

FR-9035, Section No. 517.35, See FR-9035

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	21	
Affirmative with Comment	2	
Craig Thelen		Updates NFPA 99 extract language. Revisions were made to meet the manual of style. A requirement cannot be in the middle of a list. (7), (8), and an exception below it were removed to conform with NFPA 99, thus moving the requirement to a position that meets the NEC Style Manual.
Pamela Gwynn		Recommend the following: include in the section title of 517.35 the term "powers" after the word "On-site" to be consistent with the first sentence: "517.35 Equipment Branch Connection to On-Site Power Source".
Negative	0	
Abstain	0	

FR-9036, Section No. 517.40, See FR-9036

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		Clarifies the application of type 2 systems serving category 2, 3 and 4 spaces. NFPA 101 edition date revised. A requirement was added prior to the informational notes to comply with the NEC Style Manual
Negative	0	
Abstain	0	

FR-9059, Section No. 517.76, See FR-9059

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	<u>Comments</u>
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		Changes made to meet NEC Style Manual
Negative	0	
Abstain	0	

FR-9062, Section No. 517.78(C), See FR-9062

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

<u>Vote Selection</u> <u>Votes</u> <u>Comments</u>

Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		Changes made to meet NEC Style Manual
Negative	0	
Abstain	0	

FR-9114, Section No. 517.80, See FR-9114

Eligible to Vote: 24 Not Returned: 1 Michael D. Skinner Vote Selection

<u>Vote Selection</u>	<u>Votes</u>	<u>Comments</u>
Affirmative	20	
Affirmative with Comment	1	
Craig Thelen		Includes protection requirements for POE circuits that are being served from the life safety or critical branches to have the same protection as other circuits of the life safety and critical branch. The extract tag to NFPA 99 6.7.5.2.2 was removed as the text in this section is no longer an extract.
Negative	2	
David A. Dagenais		The requirement for Class 2 lighting should only apply if the fault on the wiring could cause the 120volt or 277 volt circuit to trip. this requirement. this would require low voltage switching to be protected unnecessarily.
Chad E. Beebe		There was no evidence that provided that supported this change. We have not limited the wiring to 6 feet. This is difficult if not impossible to accommodate in operating rooms that are required to have monolithic ceiling, or manufactured laminar flow ceilings in rooms that are 20 feet by 20 feet or larger.
Abstain	0	

FR-9138, Section No. 518.2(B), See FR-9138

Eligible to Vote: 24

Not Returned : 1Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		The panel corrected the reference to "Article 518" in order to comply with section 4.1.4 of the NEC
		Style Manual
Negative	0	
Abstain	0	

FR-9146, Section No. 518.6, See FR-9146

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		The terms "panelboard" and "enclosed panelboard" are defined terms. Adding the term "enclosed panelboard" makes the text technically correct. Note: The term "Enclosed Panelboard" was added to Article 100 during the 2023 Code cycle
Negative	0	
Abstain	0	

FR-9149, New Section after 520.1, See FR-9149

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

<u>Vote Selection</u> <u>Votes</u> <u>Comments</u>

Affirmative with Comment 1

Craig Thelen A new section is added to comply with the NEC Style Manual Section 2.2.1 regarding Listing

Requirements

Negative 0
Abstain 0

FR-9079, Definition: Essential Electrical System., See FR-9079

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	21	
Affirmative with Comment	1	
Craig Thelen		The extract language from NFPA 99 has been updated
Negative	1	
Brian E. Rock		The inclusion of the phrase "reliability and" and the word "sufficient" are unacceptable. The vague term "reliability" fails to correlate with 90.2(B)" and is not enforceable. The term "reliability" could apply to any number of unspecified attributes either of design or of installation. The term

"sufficient" is contrary to NEC® Style Manual.

Abstain 0

FR-9075, New Definition after Definition: Power Source Output Conduc..., See FR-9075

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	21	

Affirmative with Comment 2

Brian E. Rock Correlating Committee take notice. The definition is in the singular "A system" but the definition is

incorrectly in the plural. Although this definition is an extract, as permitted by NEC® Style Manual

2.1.12.3.2 this can be corrected for grammar.

Craig Thelen The definition for "alternate power sources" was removed from NFPA 99. The term "power source"

is used in article 517. As such, the definition for "power sources" has been added to article 100 as

an extract from NFPA 99

Negative 0
Abstain 0

FR-9282, New Definition after Definition: Riser Cable, Cable Routing..., See FR-9282

Eligible to Vote: 24
Not Returned: 1
Michael D. Skinner
Vote Selection

Vote Selection Votes Comments
Affirmative 21

Affirmative with Comment 2

Brian E. Rock

NEMA supports the definition of this term except that the phrase "A Type of Patch Panel", which is a definition unto itself, be relocated into the definition content: "Panel, Road-Show Connection (Road-Show Connection Panel) A type of patch panel for connection of portable stage switchboards to fixed lighting outlets by means of permanently-installed, supplementary circuits. (520) (CMP-

15)"

Craig Thelen Definition created for term used in 520.50

Negative 0
Abstain 0

FR-9204, New Section after 220.110, See FR-9204

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Triidiael Brokiiiiel		
Vote Selection	<u>Votes</u>	Comments
Affirmative	19	
Affirmative with Comment	1	
Craig Thelen		The task group analyzed data (detailed statistical analysis based on data collection on demand
		factors) and proposed more appropriate demand factors to the proposed demand factor table
Negative	3	
Chris M. Finen		The data and statistical analysis used to substantiate the changes to this requirement were not made available to the Committee. Additionally, need to ensure this info is available for public review and comment.
Brian E. Rock		NEMA did not have an opportunity to view DIRECTLY the measurements and data used to arrive at the conclusions reached by the Submitter and the Task Group rather than through presentation summaries. In particular, the presentation notes that measurements of electrical loads in non-patient-care spaces (e.g., business offices, facilities and maintenance rooms, lobbies, cafeterias, storage spaces, gift shops, etc.) were compiled in addition to those electrical loads in patient-care spaces but there is no explicit separation of those data identified to indicate that non-healthcare commercial/institutional loads were omitted in arriving at these Demand Factor thresholds for the healthcare portions themselves.
Chad Kennedy		I support the concept that the demand factors for health care specific appliances should be investigated however the expansion to include general appliances within a health care facility has not been substantiated and overlaps the demand factors for buildings in Article 220. Additionally, the data and analysis to support the proposed demand factors have not been made available for public review.
Abstain	0	

FR-9203, Section No. 220.110, See FR-9203

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

<u>Vote Selection</u> <u>Votes Comments</u>

Affirmative
Affirmative with Comment

19 1

3

Craig Thelen

The task group analyzed data (detailed statistical analysis based on data collection on demand factors), and, proposed more appropriate demand factors to the proposed demand factor table. Response Message: FR-9203-NFPA 70-2024

Negative

Chris M. Finen

The data and statistical analysis used to substantiate the changes to this requirement were not made available to the Committee. Additionally, need to ensure this info is available for public

review and comment.

Brian E. Rock

NEMA did not have an opportunity to view DIRECTLY the measurements and data used to arrive at the conclusions reached by the Submitter and the Task Group rather than through presentation

summaries. In particular, the presentation notes that measurements of electrical loads in non-patient-care spaces (e.g., business offices, facilities and maintenance rooms, lobbies, cafeterias, storage spaces, gift shops, etc.) were compiled in addition to those electrical loads in patient-care spaces but there is no explicit separation of those data identified to indicate that non-healthcare commercial/institutional loads were omitted in arriving at these Demand Factor thresholds for the

healthcare portions themselves.

Chad Kennedy

I support the concept that the demand factors for receptacle loads in health care specific spaces should be investigated however the expansion to include general spaces within a health care facility has not been substantiated and overlaps the demand factors for buildings in Article 220.

Additionally, the data and analysis to support the proposed demand factors have not been made available for public review.

Abstain 0

FR-8897, New Section after 517.6, See FR-8897

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		This provides the definitions of risk category assignments from NFPA 99 into the NEC to assist the user. Language was added to conform to the NEC Style Manual
Negative	0	
Abstain	0	

FR-8900, Section No. 517.10(B), See FR-8900

Vote Selection	Votes	Comments
Affirmative	21	
Affirmative with Comment	2	
Brian E. Rock		NEMA supports the overall set of revisions but does not support the change to 517.10(B) list item (1) and the addition of Informational Notes Nos. 5 and 6. The vague and undefined term "DIRECT patient care" in 517.10(B) list item (1) and added Informational Note No. 6 are subjective and confusing. For instance, could laboratory spaces be considered INDIRECT patient care if the patient never actually enters those spaces, on par with the lobby gift shop? The only clarity need in the existing wording might be to relocate "In clinics, medical and dental offices, and outpatient facilities" to beginning of list item (1) because it's presently unclear whether the phrase applies solely to "the like" or to the entire series of premises. Informational Note No. 5 does not conform to NEC® Style Manual and should not be included.
Craig Thelen		The change adds clarity that many clinics performing routine services are not required to meet the grounding and bonding requirements in this section.
Negative	0	
Abstain	0	

FR-8940, Section No. 517.13(A), See FR-8940

Vote Selection	<u>Votes</u>	Comments
Affirmative	21	
Affirmative with Comment	1	
Craig Thelen		The requirement of a metal raceway system indirectly suggests that metal boxes are required. As such, and informational note was added to provide clarity for the user
Negative	1	

Brian E. Rock

This FR creates a SAFETY ISSUE as written. The associated Public Input (PI-1815) to this FR had proposed an acceptable update to Section 517.13(A), but the FR changed the meaning of the Section and the intent of PI-1815. For health care facilities, patient care spaces require by intent TWO effective ground-fault current paths. Consequently, this Committee Statement and the 517.13(A) Informational Note added by CMP-15 DO NOT ASSURE that field-fabricated or fieldmodified nonmetallic boxes or some commercially-available nonmetallic boxes, any of which are available that PERMISSIVELY OMIT internal/integral entry bonding means of EXISTING 314.3 Exceptions Nos. 1 and 2 for nearly all general (non-health-care) applications, which rarely employ TWO effective ground-fault current paths. Potential misuse of conventional nonmetallic boxes can disrupt the continuity of the SECOND effective ground-fault current path that 517.13 requires in patient care spaces. This SECOND effective ground-fault current path is NOT REDUNDANT (i.e., reliability by redundancy is NOT the safety objective) to the first effective ground-fault current path and is required intentionally to speed the tripping of OCPDs in the presence of stray and fault currents that are deleterious if presented to the much lower body impedance of medicallycompromised patients. This potential misuse of conventional nonmetallic boxes furnished WITHOUT internal/integral entry bonding means of EXISTING 314.3 PERMISSIVE Exceptions Nos. 1 and 2 is likely to become more prevalent as so-called urgent care clinics are being located more frequently outside of hospital campuses and instead within retail commercial developments. The FR Informational Note No. 1 should be deleted and the PI-1815 verbiage should be utilized instead.

Abstain

0

FR-8948, Section No. 517.14, See FR-8948

Eligible to Vote: 24

Not Returned : 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		In 2023 a new definition "enclosed panelboard" was added, this has triggered the need to revise this section to recognize the equipment grounding terminal bars are often connected directly to the panelboard enclosures
Negative	0	
Abstain	0	

FR-8976, Section No. 517.20(A), See FR-8976

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	<u>Comments</u>
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		Adds clarity and consistency with NFPA 99
Negative	0	
Abstain	0	

FR-8982, Section No. 517.26, See FR-8982

Eligible to Vote: 24 Not Returned : 1

Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		This revision clearly identifies that Article 700 does not apply to health care facilities
Negative	0	
Abstain	0	

FR-8988, Section No. 517.29, See FR-8988

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	<u>Comments</u>
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		Updates NFPA 99 extract.
Negative	0	
Abstain	0	

FR-8991, Section No. 517.30(A), See FR-8991

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		The suggested change does coordinate with NFPA 99. However, the language "power production equipment" is a term defined in NFPA 70, and more accurately describes the need for the kinds of equipment included. This language solves the ambiguity of, for instance, an on-site utility substation which could be interpreted by some as an on-site source
Negative	0	
Abstain	0	

FR-9286, Sections 517.30(B), 517.30(C), See FR-9286

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	21	
Affirmative with Comment	1	
Craig Thelen		"On-site" was added to "Power Sources for the EES" to coordinate with NFPA 99. The requirements for (B) were revised to group and clarify on-site and off-site power sources. The edition of NFPA 99 was revised
Negative	1	
Brian E. Rock		The proposed revision confuses the enforceable mandatory requirement ("shall be") with an optional requirement ("shall be permitted") in multiple locations within the Section.
Abstain	0	

FR-9016, Sections 517.31(A), 517.31(B), See FR-9016

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	<u>Comments</u>

Affirmative with Comment 2

Brian E. Rock 517.31(A) is a MANDATORY RULE and should not use the unenforceable EXPLANATORY verb

"considered". Delete "considered" or move to an Informational Note.

Craig Thelen The revisions were made to correlate with NFPA 99

Negative 0
Abstain 0

FR-9216, Section No. 517.31(C)(3), See FR-9216

Eligible to Vote: 24 Not Returned: 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	<u>Comments</u>
Affirmative	21	
Affirmative with Comment	1	
Craig Thelen		This is revised to meet the NEC Style Manual. These are written as exceptions
Negative	1	
Brian E. Rock		The prohibition of nonmetallic raceways should be relocated ONE TIME solely as a new third
		sentence of the charging text in 517.31(C)(3), not as NEW Exceptions in list items (1) and (2), and
		certainly not redundant to the same statement RETAINED in those list items. 517.31(C)(3), list items
		(1) and (2), do not comply with NEC® Style Manual 2.1.9.3 for Exceptions to lists.

Abstain 0

FR-9023, Section No. 517.31(D), See FR-9023

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

<u>Vote Selection</u> <u>Votes</u> <u>Comments</u>

Affirmative with Comment
Craig Thelen
Revision moves "Part" in order to be consistent with MOS. The term "alternate" was removed to be consistent with NFPA 99

Negative
Abstain
0

FR-9024, Section No. 517.31(F), See FR-9024

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		The revision is to be consistent with terminology used elsewhere in the section replacing "alternate" with "EES."
Negative	0	
Abstain	0	

FR-9026, Section No. 517.32, See FR-9026

Eligible to Vote: 24 Not Returned: 1 Michael D. Skinner

<u>Vote Selection</u> <u>Votes</u> <u>Comments</u>

Affirmative with Comment 1

Craig Thelen Titles and references were updated that address inconsistencies between Type 1 and Type 2 EES. In

addition, NFPA 99 extract language was updated

Negative 0
Abstain 0

FR-9042, Section No. 517.41, See FR-9042

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		"On-site" was added to "Power Sources for the EES" to coordinate with NFPA 99. The requirements for (B) were revised to group and clarify on-site and off-site power sources. NFPA 99 extracts were revised
Negative	0	
Abstain	0	

FR-9046, Section No. 517.42(B), See FR-9046

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	<u>Comments</u>
Affirmative	22	

Affirmative with Comment 1

Craig Thelen The only time you can combine the loads on a single transfer switch on a type 2 system is if the

total system load is 150 kVA or less on the EES. All other NFPA 99 extracts updated

Negative 0

Abstain 0

FR-9048, New Section after 517.42(E), See FR-9048

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		Adds coordination requirements for Type 2 EES.
Negative	0	
Abstain	0	

FR-9094, Section No. 517.43, See FR-9094

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

<u>Vote Selection</u> <u>Votes</u> <u>Comments</u>

Affirmative 22
Affirmative with Comment 1

Craig Thelen Updates NFPA 99 extract language

Negative 0
Abstain 0

FR-9104, Section No. 517.44, See FR-9104

Eligible to Vote: 24 Not Returned: 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	20	
Affirmative with Comment	1	
Craig Thelen		Updates NFPA 99 extract language.
Negative	2	
Stephen M. Lipster		Moving critical generator accessories from the life safety system to the equipment system makes no sense. It is unsafe in NFPA 99 and should be revised in that document. Allowing this revision to stand creates a scenario where a generator could be unnecessarily shut down due to the loss of the equipment branch leaving life safety branch loads unserved.
Gabriel Smith		Moving critical generator accessories from the life safety system to the equipment system makes no sense, allowing this revision to stand creates a situation where generator could be unnecessarily shut down

FR-9053, Section No. 517.45(A), See FR-9053

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Abstain

Vote SelectionVotesCommentsAffirmative22Affirmative with Comment1

0

Craig Thelen Updates NFPA 99 extract language, and removes reference to normal power

Negative 0
Abstain 0

FR-9055, Section No. 517.45(E), See FR-9055

Eligible to Vote: 24 Not Returned: 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	<u>Comments</u>
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		There are no requirements in NFPA 99 for power systems. This section would cause confusion to the reader and, per the NEC Style Manual, you cannot reference another code in the mandatory text
Negative	0	
Abstain	0	

FR-9222, Section No. 517.60, See FR-9222

Vote Selection	<u>Votes</u>	Comments
Affirmative	21	
Affirmative with Comment	1	
Craig Thelen		Revision made to comply with the NEC Style Manual
Negative	1	

Brian E. Rock Per Article 500.5(B)(2) list item (3), A Class I, Division 2 location is adjacent to a Class I, Division 1

location. The Informational Note should be removed and 517.61(A)(1) should be revised to include a second sentence: "The remaining volume up to the structural ceiling is considered to be Class I,

Division 2 location."

Abstain 0

FR-9223, Section No. 517.64(B), See FR-9223

Eligible to Vote: 24 Not Returned: 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		The revision was made because a requirement cannot be embedded in a requirement. This meets the NEC Style Manual.
Negative	0	
Abstain	0	

FR-9056, Section No. 517.70, See FR-9056

Vote Selection	<u>Votes</u>	<u>Comments</u>
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		More clearly identifies applicability of this section. This adds a charging statement to the section
		and now complies with NEC Manual of Style
Negative	0	

Abstain 0

FR-9287, Section No. 517.71(C), See FR-9287

Eligible to Vote: 24 Not Returned: 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		Revisions made to meet NEC MOS. 1500 Volts dc was added to include the same voltage demarcation used in many places throughout the code
Negative	0	
Abstain	0	

FR-8859, Section No. 517.74(B), See FR-8859

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		"Overcurrent devices" was revised to read "overcurrent protective devices" to make terminology consistent with the NEC. This action is part of Global PI 4050
Negative	0	
Abstain	0	

FR-8860, Sections 517.160(A)(2), 517.160(A)(3), See FR-8860

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		"Overcurrent devices" was revised to read "overcurrent protective devices" to make terminology consistent with the NEC. This action is part of Global PI 4050
Negative	0	
Abstain	0	

FR-9224, Section No. 517.160(A)(4), See FR-9224

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		Made into an informational note to comply with NEC Style Manual
Negative	0	
Abstain	0	

FR-9109, Section No. 517.160(B), See FR-9109

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		Made into an informational note to comply with NEC Style Manual
Negative	0	
Abstain	0	

FR-9139, Section No. 518.3, See FR-9139

Vote Selection	<u>Votes</u>	Comments
Affirmative	21	
Affirmative with Comment	2	
Mitchell K. Hefter		The panel statement notes the reference to Article 590 was changed to 590.4, but paragraph (A) still states Article 590.
Craig Thelen		For clarity and compliance with the NEC Style Manual section 3.5.1.2, the panel created separate sections for 518.3. Section 518.3 was renumbered to 518.5 to comply with the manual of style. "Article 590" was revised to "590.4" to comply with 2023 NEC Style Manual
Negative	0	
Abstain	0	

FR-9141, Section No. 518.4(A), See FR-9141

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	21	
Affirmative with Comment	1	
Craig Thelen		To simplify the language of 518.4(A) regarding equipment grounding conductor, 518.4(A) was modified to be in alignment with 520.5(A) and 530.5(A) for consistency
Negative	1	
Brian E. Rock		This FR draws a false parallel between Assembly Occupancy applications and stage/studio applications. As indicated in 250.118, for some wiring methods a wire-type EGC is not employed at all and entail ampere restrictions and trade size restrictions. Further, some wiring methods do not inherently incorporate a discrete wire-type EGC and instead rely upon the metal armor/sheath in conjunction with an uninsulated metal conductor or uninsulated metal tape to achieve wire-type EGC equivalence. As revised, it is unclear per 90.3 whether those 250.118 restrictions are being superseded or being referenced unchanged.

FR-9144, Section No. 518.4(B), See FR-9144

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Abstain

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	

0

Craig Thelen

The Panel modified references to Articles and Parts to comply with the NEC Style Manual. The panel removed the reference in the title of 518(4)(B) to "Systems Less than 120V, Nominal because the list of wiring methods does not include any specific to systems less than 120 volts nominal. Further, the title can cause confusion as it may appear that the wiring methods listed can be used with higher voltages than the referenced requirements actually allow. This phrase in the title appears to be obsolete and originally came from Article 517, but serves no useful purpose here and should be deleted.

Negative 0
Abstain 0

FR-9248, Section No. 518.4(D), See FR-9248

Eligible to Vote: 24 Not Returned: 1 Michael D. Skinner

Vote SelectionVotesCommentsAffirmative22Affirmative with Comment1Craig ThelenRevision made to comply with the NEC Style ManualNegative0Abstain0

FR-9145, Section No. 518.5(A), See FR-9145

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection Votes Comments

Affirmative 22
Affirmative with Comment 1
Craig Thelen While prefer

While "orientated" and "oriented" have the same meaning, in common usage, "oriented" is preferred. Orientated is not commonly used in the United States. The NEC Style Manual is silent on these two words, but for clarity and commonly preferred usage, the Panel changed this word in this section to "oriented".

Negative 0
Abstain 0

FR-9159, Section No. 520.5(B), See FR-9159

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Craig Thelen

Vote SelectionVotesCommentsAffirmative22Affirmative with Comment1

The Panel corrected references to Articles and Parts to comply with section 4.1.4 of the NEC Style Manual. Also, the panel corrected the reference to Article 725 Part III to Part II in 520.5(B)(3). This section included ", and Systems Less Than 120 Volts, Nominal" in the title, yet the list of wiring methods do not include any specific to systems less than 120 volts nominal. Further, the title can cause confusion as it may appear that the wiring methods listed can be used with higher voltages than the referenced requirements actually allow. This phrase in the title appears to be obsolete, and came from 517, but serves no useful purpose here and should be deleted.

Negative 0 Abstain 0

FR-9161, Section No. 520.5(C), See FR-9161

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		The panel corrected the reference to Article 520 to comply with section 4.1.4 of the NEC Style
		Guide.
Negative	0	
Abstain	0	

FR-9152, Section No. 520.10, See FR-9152

Votes Comments

0

Eligible to Vote: 24 Not Returned: 1 Michael D. Skinner

Vote Selection

Abstain

Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		Using the word "temporary" in this section may be improperly interpreted as being covered by Article 590 – Temporary Installations. Portable equipment is not permanently installed in venues covered by the "Entertainment Industry" Articles 518, 520, 525, and 530. Use of the words "deploy" / "deployed" is more descriptive of the portable equipment use and prevents misinterpretation. In addition, Informational Note 2 was added to provide a pointer to ANSI/ESTA E1.19 for guidance on GFCI use in wet locations.
Negative	0	

FR-9278, Section No. 520.26, See FR-9278

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection Affirmative	Votes 19	Comments
Affirmative with Comment	4	
Mitchell K. Hefter		As written, the editorial addition of the words "comply with" in the first sentence is unclear as the list in items 1 though 4 are types of switchboards rather than supplemental requirements. The first sentence should be revised to read: "Stage switchboards shall be one or a combination of the following types:"
Steven R. Terry		As written, the words "comply with" in the first sentence do not make sense, based on the wording of points 1 through 4, which describe switchboard types, not switchboard requirements. First sentence should be revised to read "Stage switchboards shall be one or a combination of the following types: "
Craig Thelen		Revisions made to comply with the NEC Style Manual.
Edwin S. Kramer		Tthe editorial addition of the words "comply with" in the first sentence do not make sense based on the wording of points 1 through 4, which describe switchboard types, not switchboard requirements to be complied with. First sentence should be revised to read: "Stage switchboards shall be one or a combination of the following types:"
Negative	0	0-7,
Abstain	0	

FR-9279, Section No. 520.27(A)(1), See FR-9279

Eligible to Vote: 24 Not Returned: 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	

Craig Thelen Revision made to comply with the NEC Style Manual.

Negative 0
Abstain 0

FR-9154, Section No. 520.41(B), See FR-9154

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

<u>Vote Selection</u> Affirmative	Votes 21	Comments
Affirmative with Comment	1	
Craig Thelen		Section 4.1.4 of the NEC Style Manual prohibits referencing an entire article, except Article 100 or where required for context. This FR corrects the text to refer to individual sections of Article 210
Negative	1	
Brian E. Rock		The original and revised 520.41(B) are misstated as a PERMISSIVE "requirement" for compliance to other requirements.
Abstain	0	

FR-9280, Section No. 520.44(C)(2), See FR-9280

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

<u>Vote Selection</u> <u>Votes Comments</u>

Affirmative 21

Affirmative with Comment 1

Craig Thelen Revisions made to comply with the NEC Style Manual

Negative 1

Brian E. Rock In the Note to Table 520.44(C)(2)(2), the second paragraph is a mandatory requirement, and a

mandatory requirement shall not be moved to an Informational Note. In the fourth paragraph the EXPLANATORY verb "considered" shall be changed to the MANDATORY verb phrase "counted as".

Abstain 0

FR-9156, Section No. 520.45, See FR-9156

Eligible to Vote: 24 Not Returned: 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		The second sentence is deleted in order to comply with the NEC Style Guide
Negative	0	
Abstain	0	

FR-9162, Section No. 520.50(D), See FR-9162

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		Panel Statement: Reference to Article 408 was corrected to comply with section 4.1.4 of the NEC
		Style Guide
Negative	0	

Abstain 0

FR-9281, Section No. 520.50 [Excluding any Sub-Sections], See FR-9281

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		Revision made to comply with the NEC Style Manual
Negative	0	
Abstain	0	

FR-9245, Section No. 520.54(C), See FR-9245

Eligible to Vote: 24 Not Returned: 1 Michael D. Skinner

<u>Vote Selection</u> <u>Votes</u> <u>Comments</u>

Affirmative 22
Affirmative with Comment 1
Craig Thelen Revisions made to comply with NEC Style Manual.
Negative 0
Abstain 0

FR-9163, Section No. 520.68(D), See FR-9163

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote SelectionVotesCommentsAffirmative22Affirmative with Comment1

Craig Thelen

There are multiple multicircuit connectors in wide use in Article 520 occupancies. Many different pinout configurations are used for audio, lighting, effects equipment, video walls, and other systems. There is currently no requirement to require clear identification of the different configurations. Adding this marking requirement in combination with the existing qualified persons requirement provides a clear understanding of the pinout configuration in use. In addition, the words "or approved" were added to (4), because there is currently no physical dimensional standard available for multicircuit connectors covered under this section. This addition does not change the qualified persons requirement of (7). With regards to the Informational Note, the Entertainment Services and Technology Association (ESTA) Technical Standards Program (ANSI E1) is developing a standard for such marking.

Negative 0
Abstain 0

FR-9173, Section No. 522.10, See FR-9173

Eligible to Vote: 24

Not Returned : 1Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		The panel changed references to Articles and Parts to comply with the NEC Style Manual section
		4.1.4
Negative	0	
Abstain	0	

FR-9205, Article 525, See FR-9205

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Steven R. Terry

Vote Selection	<u>Votes</u>	Comments
Affirmative	18	
Affirmative with Comment	4	
Mitchell K. Hefter		525 underwent many revisions; one change in 525.1 was not captured. 525.1 should be corrected to read: This article covers the installation deployment of portable wiring and equipment for carnivals, circuses, fairs, and similar functions, including wiring in or on all structures.

525.1 was incorrectly transcribed from the many PI's that were combined into FR 9205. PI 2587 changed the word "installation" to "deployment" in 525.1 This change was accepted but did not get made in the text of FR9205, even though it is described in the committee statement for FR9205.

Craig Thelen

Edwin S. Kramer

Negative

For compliance with the NEC Style Manual, the term 600V "or less" should remain. For clarity and emphasis, reference to Table 680.9(A) was moved to the beginning of this section because the table applies to voltages both less than and over 600V. The panel recognizes that article 525 needs a pointer to requirements for different types of portable generators. The panel removed the redundant words "in audience traffic areas", as these are included in areas accessible to the general public. A pointer is needed to 300.15 for clarification that it applies to relocatable structures in Article 525 venues. The reorganization of 525.21 clarifies the requirements for means of disconnect for various structures and moves the specific requirements for portable wiring in tents and concessions into a new section 525.22. Renumber section to 525.22. Remove lamp requirements to new section 525.25

25.1 was incorrectly transcribed from the many files associated with this FR. 525.1 should be corrected to read: This article covers the installation deployment of portable wiring and equipment for carnivals, circuses, fairs, and similar functions, including wiring in or on all structures.

1

Brian E. Rock

The rewrite of Article 525 does not address prior non-compliances with NEC® Style Manual. • Section 525.3 - "Other Articles", as numbered conflicts with NEC® Style Manual indicating that Section ###.# is reserved for "Reconditioned Equipment". • Section 525.3(A) is already addressed by 90.3 and is unnecessary where those requirements are requirements are explicitly delineated. Delete 525.3(A) and redesignate 525.3(B) as 525.4 "Attractions Utilizing Pools, Fountains, and Similar Installations with Contained Volumes of Water". • Section 525.5(B)(1) "except for the conductors supplying the portable structure" is UNSAFE as it would NOT LIMIT OVERHEAD CLEARANCE WHATSOEVER at the supply point to the portable structure and could be well within unprotected reach of either untrained personnel, pedestrians, or children in these venues. Delete "except for the conductors supplying the portable structure" and replace with "Masts used for the support of final spans of outdoor overhead feeders or branch circuits to portable structures shall be installed in accordance with 225.17(A) and (B)." • Section 525.5(B)(1) reference to 525.3(B) is incorrect as Article 525 contains no requirements for Reconditioned Equipment. Therefore "Structures included in 525.3(B) ..." should be replaced by "Portable structures included in this subsection ...". • Section 525.5(B)(1) is ambiguous and vague as worded. Does "maintained" refer to the painting of the exterior finish? Replace "maintained" with "located". • Section 525.11(A): Include "generators", inserted between "trailer-mounted" and "shall" to make a complete sentence. • Section 525.20(A): The second sentence's permissive condition of use conflicts and does not correlate with Table 400.4 for Junior Hard Service Cord listed as suitable for hard usage (last column of Table 400.4) but rated for only 300 V maximum (third column from the left of Table 400.4.

Abstain

FR-9177, New Section after 530.1, See FR-9177

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection Votes Comments

0

Affirmative 22
Affirmative with Comment 1

Portable stage and studio electrical equipment was not included in the list of equipment to be

listed because this equipment may be either listed or approved per 530.21(A)

Negative 0
Abstain 0

FR-9189, Section No. 530.4, See FR-9189

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Craig Thelen

<u>Vote Selection</u> <u>Votes</u> <u>Comments</u>

Affirmative 22
Affirmative with Comment 1

Craig Thelen

The existing language is too overarching and the requirement for continuous supervision should not apply to utility-supplied portable distribution systems supplying equipment on motion picture or television studio lots such as video trucks, satellite trucks, portable UPS, portable power tools, portable air conditioning units, support trailers, craft service refrigerators, and similar equipment, that are required to operate 24/7. Changes in the language are meant to narrow down the scope of this section, and the exception would allow portable equipment, supplied by utility power and designed for the purpose, to supply other equipment without continuous supervision. The equipment is still required to be deployed and energized by qualified persons.

Negative 0
Abstain 0

FR-9193, Section No. 530.5(B), See FR-9193

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

<u>Vote Selection</u> <u>Votes</u> <u>Comments</u>

Affirmative 19
Affirmative with Comment 4

Mitchell K. Hefter

The revised language is correct, but the Panel Statement was cut off after the word 'higher' and my prove confusing to reviewers of the first draft. The statement should conclude as follows: "... higher voltages than the referenced requirements actually allow. This phrase in the title appears to be obsolete, and came from 517, but serves no useful purpose here and should be deleted."

Steven R. Terry

The committee statement for FR9193 is missing text. The following text should be appended to the end of the statement: "...higher voltages than the referenced requirements actually allow. This phrase in the title appears to be obsolete, and came from 517, but serves no useful purpose here and should be deleted."

Craig Thelen

References to articles were corrected to comply with section 4.1.4 of the NEC Style Manual. Incorrect reference to Part I II of article 725 in (3) was corrected to Part II. Remove "and systems less than 120 volts, Nominal from (B). This section includes ", and Systems Less Than 120 Volts, Nominal" in the title, yet the list of wiring methods do not include any specific to systems less than 120 volts nominal. Further, the title can

Edwin S. Kramer

Committee statement is missing the word "voltages"

Negative 0
Abstain 0

FR-9180, Section No. 530.21(A), See FR-9180

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection Votes Comments

Affirmative with Comment 1
Craig Thelen The panel changed "extension cords" to the defined term "cord sets".
Negative 0
Abstain 0

FR-9185, Section No. 530.21(B), See FR-9185

Eligible to Vote: 24 Not Returned: 1 Michael D. Skinner

Vote Selection Affirmative	Votes 22	Comments
Affirmative with Comment	1	
Craig Thelen		Panel statement: "deployed" instead of "temporary" more accurately describes the use of portable equipment in article 530 and avoids misinterpretation with article 590 applications. Informational note 1 was corrected to remove "temporary". Informational note 2 was corrected to the current version of ANSI/ESTA E1.19. in Informational note 1, ANSI/ESTA E1.58 edition date was updated to 2017(R2022).
Negative	0	
Abstain	0	

FR-9195, Section No. 530.72, See FR-9195

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

<u>Vote Selection</u> <u>Votes</u> <u>Comments</u>

Affirmative 22

Affirmative with Comment
Craig Thelen
Reference to Article 490 was corrected to comply with section 4.1.4 of the NEC Style Manual
Negative
O
Abstain
O

FR-9198, Section No. 540.10, See FR-9198

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		The panel eliminated a reference to a complete article to comply with section 4.1.4 of the NEC Style Manual
Negative	0	
Abstain	0	

FR-9246, Section No. 540.11(A), See FR-9246

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	

Craig Thelen Revisions made to comply with NEC Style Manual

Negative 0
Abstain 0

FR-9199, Section No. 540.20, See FR-9199

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		The panel added a new section 540.2 and deleted section 540.20 to comply with the NEC Style
		Manual section 2.2.1

Negative 0
Abstain 0

FR-9252, Definition: Patient Care Space Category. [Excluding any Sub..., See FR-9252

Eligible to Vote: 24 Not Returned : 1 Michael D. Skinner

Vote Selection	<u>Votes</u>	Comments

Affirmative 22
Affirmative with Comment 1

Craig Thelen NFPA 99 extract reference updated

Negative 0
Abstain 0

FR-9220, Part IV., See FR-9220

Vote Selection	<u>Votes</u>	Comments
Affirmative	22	
Affirmative with Comment	1	
Craig Thelen		Revised per the NEC Style Manual.
Negative	0	
Abstain	0	