

Comments on NECA 305-201X, *Standard for Fire Alarm System Job Practices*

E: editorial, G: General, T: Technical Note: Please do not re-size table

ID: Company with comment # (do not automate comment #)

Page	Line	Clause	E/G	Organization	Comment (rationale)	Proposed change (specific; add, delete. From-to)	Resolution (SME ONLY)
ii		Foreword	E	GWM	Recommend inserting the following text between the first and second paragraphs, "Fire Alarm Systems shall be installed in accordance with NECA 305, <i>Standard for Fire Alarm System Job Practices</i> (ANSI)," for consistency with other NEISs.	Recommend inserting the following text between the first and second paragraphs, "Fire Alarm Systems shall be installed in accordance with NECA 305, <i>Standard for Fire Alarm System Job Practices</i> (ANSI)," for consistency with other NEISs.	Accept
ii		Foreword	E	GWM	Recommend revising "trade- marks" to be "trademarks" in the last paragraph for readability.	Recommend revising "trade- marks" to be "trademarks" in the last paragraph for readability.	Accept
		TOC	E	GWM	Recommend reconciling headings and sub-heading in the Table of Contents with the headings and sub-headings found throughout the text.	Recommend reconciling headings and sub-heading in the Table of Contents with the headings and sub-headings found throughout the text.	Accept
			G	GWM	Recommend removing sequential numbering (lettering) of paragraphs under headings and sub-headings for consistency with other NEISs.	Recommend removing sequential numbering (lettering) of paragraphs under headings and sub-headings for consistency with other NEISs.	Accept: Will be handled by the NECA editors during publication layout before printing.
1		1.0	E	GWM	Should there be a list of Standards following the first sentence of the second paragraph?	Recommend providing a list of Standards after the first sentence of the second paragraph for readability.	Accepted in Part and Concept: The referenced standards include reference to listing of all common applicable codes and standards that would apply to fire alarm system installation. NECA intends to retain the current text in this section as it is non-inclusive, but would apply to any code or standard that is related to these types of installations. Providing lists creates exclusivity and can be incomplete, causing other concerns. The words "and other" are suggested to be inserted before the word "applicable" and add the word "standards" after the word "applicable."
2		1.1	E	GWM	Recommend revising "e.g., relay contacts" to be "e.g., relay dry contacts" in the fourth paragraph for clarity.	Recommend revising "e.g., relay contacts" to be "e.g., relay dry contacts" in the fourth paragraph for clarity.	Accept

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2		1.1	E	GWM	Recommend revising publication date of NFPA 72-2007 to NFPA 72-2016 in Informational Note No. 1 for consistency with reference to NFPA 72-2016 in Section 1.0 and elsewhere in the Standard.	Recommend revising publication date of NFPA 72-2007 to NFPA 72-2016 in Informational Note No. 1 for consistency with reference to NFPA 72-2016 in Section 1.0 and elsewhere in the Standard.	Accept
			G	GWM	Reference source for of numerous Figures is NFPA 72-2007. Is this reference still valid, or does the reference need to be updated to NFPA 72-2016?	Reference source for of numerous Figures is NFPA 72-2007. Is this reference still valid, or does the reference need to be updated to NFPA 72-2016?	Accept
3		1.1	E	GWM	Recommend revising “7@2” to be “72@” in the sentence preceding the Table.	Recommend revising “7@2” to be “72@” in the sentence preceding the Table.	Accept
			G	GWM	Recommend reconciling font sizes throughout the text for consistency.	Recommend reconciling font sizes throughout the text for consistency.	Accept: Will be handled by NECA editors during publication layout before printing.
5			E	GWM	Does the acronym DACR (receiver) found in the definition of the acronym DACT (transmitter) need to be included in the definitions?	Does the acronym DACR (receiver) found in the definition of the acronym DACT (transmitter) need to be included in the definitions?	Accept in Concept: Suggested writing out Digital Alarm Communications Receiver (DACR) within the definition of DACT.
11		3.5, b)	E	GWM	Recommend revising “Install system wiring and field device back boxes” to be “Install raceways and boxes, where required, system wiring, and field device back boxes” for clarity.	Recommend revising “Install system wiring and field device back boxes” to be “Install raceways and boxes, where required, system wiring, and field device back boxes” for clarity.	Accepted in Concept: Suggest adding the words “and raceway if required” after the word “back boxes”
15		5.2	E	GWM	Recommend revising “60C” to be “60°C” for clarity.	Recommend revising “60C” to be “60°C” for clarity.	Accept
17		5.4, b)	E	GWM	Should this information be a NOTE?	Should this information be a NOTE?	Accept: Converted b. to a note following a and changed c to b. This numbering through use of letters will be changed to bullet items to meet NECA Style requirements in the next edition.
19		6.4.1	E	GWM	Should reference to NFPA 90A-2002 be updated to be NFPA 90A-2015?	Should reference to NFPA 90A-2002 be updated to be NFPA 90A-2015?	Accept

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			G	GWM	Recommend deleting the term "etc." throughout the text for consistency with other NEISs.	Recommend deleting the term "etc." throughout the text for consistency with other NEISs.	Accept Will change to "and so forth" or other appropriate edits during the publication layout process during editorial review prior to printing.
33		10.3	E	GWM	Should there be a list of examples after the first sentence (ending in a colon)?	Should there be a list of examples after the first sentence (ending in a colon)?	Accept: Delete colon, end sentence with period.
33		10.4, 10.5	E	GWM	Recommend including NFPA 72 Tables referenced in these sections in an Annex. Additionally, recommend revising "14.43..2" to be "14.4.3.2" in Section 10.5 for clarity.	Recommend including NFPA 72 Tables referenced in these sections in an Annex. Additionally, recommend revising "14.43..2" to be "14.4.3.2" in Section 10.5 for clarity.	Accept: Editorial adjustments incorporated. Will work on requesting permission from NFPA to reprint the table and include in an Annex of this standard next edition.
35		Annex A	E	GWM	Recommend deleting reference to ANSI/IEEE C2, as this reference is not found in the text of the Standard.		Accept
11	7	3.2	E	TGS	To clearly define approving authority required on drawings prior to installation	Add "AHJ" prior to approved shop drawings	Accept in Concept: The word approved is defined in NFPA 72 as "Acceptable to the authority having jurisdiction." Insert a note to read as follows" Note: The word "Approved is defined in Section 3 of NFPA 72 as acceptable to the authority having jurisdiction."
19	4	6.2.2. i)	E	TGS	To insure location and value of end of line device is recorded for reference as required for as built drawings.	After circuit add "record location and value of end of line device on drawings if not shown.	Accept
20	13	6.4.2.g)	T	TGS	Remote indicator/reset station idisposition/installation Code Compliance	add" install remote indicator station if provided with duct smoke detector assembly" 72-16 23.8.5.6.4	Accept
20	44	6.5.1.f)	T	TGS	See 6.2.2.i)	See 6.2.2.i)	Accept
23	19	6.10.3.b)	E	TGS	Update to current terminology	Delete "Phones and Switchboards" insert "telephone devices, systems and equipment"	Accept
24		7.4.b)	G	TGS	To clarify temporary intent of resistor	Add "temporarily" prior to connect and "remove this device after test is completed"	Accept

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27	15	9.2.a)	T	TGS	<p><i>Not intent of system operation test. Detector location and requirement is determined by the designer and as approved by the AHJ. Additionally detectors are required at all primary and secondary FACP locations to include remote system power supplies, DACT'S, etc..</i></p> <p>Code compliance 72-16 10.4.4</p>	<p>Delete: Make sure there is a smoke detector protecting the control unit.</p> <p>ADD: Control unit Manufactures listed system operations manual</p>	<p>Accept in Concept:</p> <p>Delete the text as recommended and add a note following this clause as follows:</p> <p>Note: <i>Detector locations and requirements must meet the mandatory requirements in NFPA 72 and follow location requirements that may be determined by the designer and as approved by the AHJ.</i></p>
27	1	9.0	E	TGS	<p>NFPA 72 14.2.10 Test Plan. Defines the requirement for a "written" Test Plan.</p> <p>Code compliance</p>	<p>Add the following after procedure" in the event a "written" Test Plan is not provided "to test the ...</p>	<p>Accept</p>
32	48	9.a)	T	TGS	<p>NFPA 72 7.2.2.1 Requires a "System Documentation " cabinet mounted adjacent to the FACP if possible. It is to contain all required and completed system documentation</p> <p>Code compliance</p>	<p>Add after Completion: and place within SYSTEM RECORD DOCUMENTS cabinet.</p>	<p>Accept in Concept:</p> <p>Add an additional bullet in 9.1a as follows:</p> <p>Where possible include system record documents within the main FACP.</p>
26	11	8.g)	T	TGS	<p>NFPA 72-16 7.2.2. Code compliance</p>	<p>ADD: Install SYSTEM RECORD DOCUMENT cabinet adjacent to FACP .</p>	<p>Accept in Concept:</p> <p>Add a new 8 h. as follows:</p> <p>Include system record documents within or adjacent to FACP.</p>
27	1	9.0	T	TGS	<p>NFPA 72-16 Code Compliance</p>	<p>STRIKE:Where systems include equipment not covered in the following procedure,.</p> <p>ADD: Follow the operation/test procedures per the manufactures listed instructions for the system component under operational test. Document test results per NFPA 72 as applicable .</p>	<p>Accept:</p> <p>Delete the last sentence in the introductory paragraph of Section 9 and add the following new last sentence:</p> <p>Follow the operation/test procedures per the manufactures listed instructions for the system component under operational test. Document test results per NFPA 72 as applicable.</p>

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27	25	9.2.e)	T	TGS	Code compliance 72.16 10.6.5.4	ADD Bullit: Code Reference NFPA 72-16 10..6.5.1 NOTE: Location of circuit disconnecting means shall be permanently identified at control unit.,....circuit breaker lock shall be provided. I recommend the requirement of the reference should be added to the branch circuit detail within 305.201X	Accept in Concept: Insert additional bullet in 9.2e as follows: Location of circuit disconnecting means shall be permanently identified at control unit and a circuit breaker lock-on means shall be provided.
27	35	9.3.c)	T	TGS	New c) (shift existing c) to d) to insure test personnel have full and complete knowledge and understanding of the approved system operational requirements	“Review the system specifications/test procedures to insure the system operation is per the prescribed notification and alarm initiation requirements.” NOTE annex: Systems may have pre-signal, zoned notification and/or cross zone initiation requirements. Elevator recall, shunt trip breaker, etc.	Accept: Add a new 9.3c as follows: “Review the system specifications/test procedures to insure the system operation is per the prescribed notification and alarm initiation requirements.” NOTE annex: Systems may have pre-signal, zoned notification and/or cross zone initiation requirements. Elevator recall, shunt trip breaker, etc. Re-identify existing 9.3c as 9.3d.
29	40	9.5.x	T	TGS	New: Gas Detection Per manufactures approved and listed instructions	Code compliance: 72-16 17.10.2	Accept: Add a new 9.5.13 as follows: Gas Detectors Gas detectors shall be installed and maintained in accordance with the manufacturer’s instructions. Renumber the section accordingly.

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31	45	9.5.20	T	TGS	Code reference : NFPA 72-16 Ch 18	Code compliance: reference should be for all paragraphs/components applying to notification appliances within 9.5.2X.	Accept in Concept: Add the following driving text following 9.5.21 and before 9.5.21a: Notification appliances must meet the applicable requirements in NFPA 72-16 in addition to all manufacturer's installation and maintenance requirements.
32		9.5.2.X		TGS	NEW: EMERGENCY COMMUNICATIONS SYSTEMS NFPA 72-16 Ch 24	Comprehensive review and write up required for inclusion in next edition. Correlation required throughout document.	Accept in Concept: Add the following driving text following 9.5.22 and before 9.5.22a: Emergency communications systems are required to meet the applicable requirements contained in NFPA 72-24.
35				TGS	Recommend all applicable document forms within NFPA 72-16 be referenced and included within or link provided from NEIS for download	To insure field technical personnel have access to documents that support the test and acceptance requirements or this and other standards.	Accepted in Concept; NECA will obtain permission from NFPA to include these forms in the Annex of NECA 305 and explore the options of electronic template downloads for purchasers of the standard.

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0		0	E	Henn Rebane	The Standard should be written from the ground up. In order for it to be a standard and not an instructional pamphlet to assist in the education of personnel aspiring to become fire alarm installation technicians.		<p>Not Accepted: NECA appreciates this suggestion, however this suggestion is outside scope of the Project Initiation Notification System (PINS) submittal to ANSI. This is the third edition of this job practices document and is slated for revision only in this edition.</p> <p>NECA does not intend that this document be an instructional manual for untrained personnel. It supports to workmanship, quality, and performance aspects of mandatory standards and is not intended to be all inclusive. Electrical worker apprenticeship and other training programs provide more of training of skills necessary to become qualified fire alarm installers. As an example, the Electrical Training ALLIANCE includes this training in the curriculum for electrical workers. The training on installation methods is provided through apprenticeship courses and on-the-job training. The qualifications of technicians is typically regulated by other state and local licensing agencies and is beyond the scope of this document.</p>
2			T	Henn Rebane	Conformance with NFPA 72 and listed for use in a fire alarm system is not the complete picture.	Delete the next to last sentence in the first paragraph "All system components ..." Insert: "All system components must be listed and approved for use in the system being installed, and must be installed in compliance with their listing."	<p>Accept in Concept.</p> <p>It is known and understood that all components must be installed per the manufactures listed instructions as in accordance with listing requirements of the applicable qualified electrical testing laboratory.</p> <p>Added the following text in the first paragraph of section 1: "and installed in accordance with applicable installation instructions."</p>

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11		3.4	G	Henn Rebane	<p>The requirements of this clause should guide the content of this Standard Personnel have to be qualified (NFPA 72, 10.5.2.1), thus the installer is required to be familiar with and understand NFPA 72 and the standards referenced in it (Such as NFPA 70, NFPA 101, NFPA 90A, etc.). Thus, this Standard should not copy any text from NFPA 70 and NFPA 72, but should amplify, explain, or be more restrictive than the minimum represented by NFPA 72. Much of the content of this proposed edition of NECA 305 belongs in a handbook or reference book, not in a Standard. IMHO, this standard talks down to people that are qualified.</p> <p>This clause quotes requirements, but fails to offer implementation guidance. I propose that this Standard adopt the NICET certification model to determine qualifications.</p>	<p>Add to 3.4: Installation shall be by personnel certified by NICET as fire-alarm Level II technicians, or higher, under the supervision of Level IV technician.</p> <p>The installation shall conform to approved shop/layout drawings and product data sheets.</p>	<p>Not Accepted: While NECA understands the concerns of this submitter expressed through this suggestion, it is outside the scope of what is covered in NECA 305.</p> <p>NECA does not intend that this document be an instructional manual for untrained personnel. It supports to workmanship, quality, and performance aspects of mandatory standards and is not intended to be all inclusive. Electrical worker apprenticeship and other training programs provide more of training of skills necessary to become qualified fire alarm installers. As an example, the Electrical Training ALLIANCE includes this training in the curriculum for electrical workers. The training on installation methods is provided through apprenticeship courses and on-the-job training. The qualifications of technicians is typically regulated by other state and local licensing agencies and is beyond the scope of this document.</p>
13		4.3 k	E	Henn Rebane		Delete "may be," insert "are."	Accept
13		4.3 n	E	Henn Rebane		Add: ... during the normal operation of the facility being protected.	Not Accepted: The Fire Alarm System and associated systems are to be in operation 24/7, all requirements are to be maintained during the required period of operation. Systems that are not operational leave property vulnerable and there are significant liabilities that would result.
13		4.3 p	T	Henn Rebane	UL 864 9th Ed lists this value	Replace 85% at 30 deg F (86 C) with 93% at 90 deg.F (32 C)	Accept

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18		6.2.2 c	E	Henn Rebane	The first sentence has a problem that is typical for this draft standard. The statement "... up to 90 m (30 ft)" is OK, but then you properly call attention that the spacing might be different if it has a different rating. The last sentence alludes to having approved shop drawings. I recommend that you write an article describing info to be shown on approved shop drawings, and deleting this type paragraph from the standard.		Accept in Concept: Delete "and typically shown on shop drawings" and insert in its place "Devices shall be installed as indicated on the approved shop drawings or as directed by AHJ in the field during the final approval process." Insert this note following 6.2.2.c Note: Shop drawings may not capture all actual field conditions that relate for detector installation. Adjustments in location may be necessary for functionality and to attain AHJ approvals during field inspection.
18		6.2.2 e	E	Henn Rebane	If you follow the suggestion above, then this paragraph becomes redundant.		Resolved by the action on the previous comments as indicated by the submitter.