

**OKLAHOMA UNIFORM BUILDING CODE COMMISSION**

**ALTERNATIVE FUELS PROGRAM TECHNICAL COMMITTEE  
MEETING MINUTES**

**CONSTRUCTION INDUSTRIES BOARD/UNIFORM BUILDING CODE COMMISSION  
CONFERENCE ROOM**

**2401 NW 23RD STREET, SUITE 2F**

**OKLAHOMA CITY, OK 73107**

**MARCH 28, 2016 - 1:30 P.M.**

**COMMITTEE MEMBERS PRESENT:** Greg Armstrong, Ross Barrick, Paula Laney-Cowart (arrived at 1:38 p.m.), Joe McKenzie, Eric Pollard, Tom Sewell, Adam Shupe, and Cary Williamson

**ALTERNATE MEMBERS PRESENT:** Robert Lassiter

**COMMITTEE MEMBERS ABSENT:** Anthony Blatt, Dave Evans, Terrance Hellman, Mitchell Hort, and Jeremy Moore

**OTHERS PRESENT:** Billy Pope (Staff – OUBCC), Kathy Hehnly (Staff - OUBCC), and Scott Minton (OnCue Express)

**CALL TO ORDER:**

Mr. Adam Shupe called the meeting of the Alternative Fuels Program Technical Committee to order at 1:35 p.m. in the Construction Industries Board/Uniform Building Code Commission Board Room at Shepherd Mall, 2401 NW 23rd St., Suite 2F, Oklahoma City, OK 73107.

**DISCUSSION AND ACTION ITEMS:**

Discussion and possible approval of the February 29, 2016 regular meeting minutes

Mr. Shupe noted the minutes were behind tab "A" and asked if there was any discussion and if not would entertain a motion to approve them.

**MR. ROBERT LASSITER MADE A MOTION WITH A SECOND BY MR. CARY WILLIAMSON TO APPROVE THE MINUTES AS PRESENTED**

<b>VOTING AYE:</b>	Greg Armstrong	Eric Pollard
	Ross Barrick	Tom Sewell
	Robert Lassiter	Cary Williamson
	Joe McKenzie	

**VOTING NAY:** None

ABSENT: Anthony Blatt Mitchell Hort  
Paula Laney-Cowart Jeremy Moore  
Terrance Hellman

ABSTAIN: Adam Shupe

Discussion and possible action on public comment form AFPTC #13 on Section 5501.1 of the 2015 Edition of the IFC®

Mr. Shupe noted the second item for discussion was public comment form 13 behind tab "B" in the book. He added the form dealt with Section 5501.1, Scope of the International Fire Code® (IFC®). He stated he submitted the form in January in response to the discussion that took place in December. He added there was discussion at the January meeting where he was not in attendance regarding the striking of the reference to NFPA 59A® and substituting it with NFPA 52®. Ms. Hehnlly noted the committee chose to table the comment form as Mr. Shupe was not at the meeting. She added she was the one who originally questioned at the January meeting, if NFPA 59A® should be deleted as the published edition was the same year as NFPA 52®. There was further discussion on the question of deleting NFPA 59A®. The committee determined NFPA 59A® was still applicable as it dealt with everything up to the fueling of LNG vehicles. They noted NFPA 52® picked up with the fueling of vehicles and determined the reference to NFPA 59A® should be kept and an additional reference to Chapter 23 of the IFC® and NFPA 52® should be added to the section.

MS. PAULA LANEY-COWART MADE A MOTION WITH A SECOND BY MR. GREG ARMSTRONG TO APPROVE PUBLIC COMMENT FORM AFPTC 13 AS AMENDED BY REVERTING EXCEPTION TWO TO THE ORIGINAL PUBLISHED LANGUAGE AND ADDING A THIRD EXCEPTION TO READ: LIQUIFIED NATURAL GAS FACILITES FOR LNG VEHICLULAR APPLICATIONS WHICH SHALL COMPLY WITH IFC® CHAPTER 23 AND NFPA 52®

VOTING AYE: Greg Armstrong Eric Pollard  
Ross Barrick Tom Sewell  
Paula Laney-Cowart Adam Shupe  
Robert Lassiter Cary Williamson  
Joe McKenzie

VOTING NAY: None

ABSENT: Anthony Blatt Mitchell Hort  
Terrance Hellman Jeremy Moore

Discussion and possible action on public comment form AFPTC #16 (revised) on Section 2307.4(3) of the 2015 Edition of the IFC®

Mr. Shupe noted the next item was the revised public comment form 16 behind tab "C" in the binder. Ms. Laney-Cowart noted the comment form was her revision of the form based on the discussion at the February meeting. She stated the form added an exception similar to the CNG exception for training the general public. She added the exception would only apply to the low-emission transfer style dispensers. The committee discussed the proposed change including the

definition of the low-emission transfer station, training requirements for the traditional style transfer of LP gas, what other states allowed, the need for the change to be in the IFC® before some fire marshals will allow the exception, safe guards on the containers and requirements for testing those safe guards, signage requirements for warnings, styles for low-emission dispensers and adapters for different styles in Europe, and the hope for a more universal standard in the United States.

MR. ROSS BARRICK MADE A MOTION WITH A SECOND BY MR. CARY WILLIAMSON TO ACCEPT THE REVISED PUBLIC COMMENT FORM AFPTC 16 ON SECTION 2307.4(3) OF THE 2015 EDITION OF THE INTERNATIONAL FIRE CODE

VOTING AYE:	Greg Armstrong	Eric Pollard
	Ross Barrick	Tom Sewell
	Paula Laney-Cowart	Adam Shupe
	Robert Lassiter	Cary Williamson
	Joe McKenzie	

VOTING NAY: None

ABSENT:	Anthony Blatt	Mitchell Hort
	Terrance Hellman	Jeremy Moore

ABSTAIN: None

Discussion and possible action on the review of the requirements found in NFPA 70, National Electrical Code for electric vehicle charging systems

Mr. Shupe noted the next item on the agenda was the review of the electric vehicle charging systems and asked if there was any discussion on the item previously. Ms. Hehnly noted it was assigned for review at last month's meeting. Mr. Shupe noted there were some emails sent around regarding the charging systems. Mr. Barrick showed the committee the 2014 NEC® handbook for the article noting that everything highlighted in yellow showed the significant changes between the 2011 and 2014 editions. He noted a lot of the changes had to do with vehicle manufacturing requirements and some the residential requirements. The committee discussed if fast-filling charging raised the amperage and the limit of the code, requirements for residential installation, and manufacturer installation requirements. The committee determined no changes needed to be made to the article but a vote should be made to document the committee's recommendation.

MR. ROSS BARRICK MADE A MOTION WITH A SECOND BY MR. ROBERT LASSITER TO RECOMMEND NO CHANGES BE MADE TO ARTICLE 625, ELECTRIC VEHICLE CHARGING SYSTEMS OF THE 2014 EDITION OF THE NATIONAL ELECTRICAL CODE® BY THE ALTERNATIVE FUELS PROGRAM TECHNICAL COMMITTEE

VOTING AYE:	Greg Armstrong	Eric Pollard
	Ross Barrick	Tom Sewell
	Paula Laney-Cowart	Adam Shupe
	Robert Lassiter	Cary Williamson
	Joe McKenzie	

VOTING NAY: None

ABSENT: Anthony Blatt Mitchell Hort  
Terrance Hellman Jeremy Moore

ABSTAIN: None

Discussion and possible action on information received from various sources in California related to NFPA 2 Hydrogen Technologies Code® and the International Fire Code® to include but not be limited to:

(1) Email from Jennifer Hamilton regarding proposals to ICC for the 2018 edition of the IFC® related to NFPA 2

(2) California State Fire Marshal Information Bulletin 14-010

(3) Chapter 23 of the 2013 edition California Fire Code

Mr. Shupe noted the next item was under tab "E" in the binders. He reviewed the items available for review in the binders. He asked if the information had been previously discussed. He asked if the committee wanted to review the items in the binders, one at a time or if they should be discussed after everyone had time to review the documents and the 2015 edition of NFPA 2®. Mr. McKenzie asked if there was a resident expert on the topic. Mr. Pollard stated there was not any hydrogen fueling stations in the state. He added the committee left off after the last meeting with a recommendation from the gentleman from the National Laboratory in California to change the reference in the 2015 IFC® to the 2016 edition of NFPA 2®. He added there was some hesitancy from the committee as there was no resident technical expert. Mr. Pope noted there was a lot of discussion out of Houston regarding installing stations throughout Oklahoma and west but it may be three to five years before anything happened. He noted it would depend on how receptive the coast was with it, adding that California was a testing ground. He added it had to do with expense to implement and the benefit to it. There was further discussion on hydrogen dispensing facilities that included blended fuels, and what sections of the IFC® should be reviewed, and who the different providers of the information were for the items in the binders and where they worked. The committee discussed the precedent for bringing in items to the code from newer codes and how the process for ICC code review worked. At the end of the discussion the committee determined they should review the information provided and review the 2016 edition of NFPA 2® and discuss everything at the next meeting.

Assignment of review for the April 25, 2016 meeting

Mr. Shupe assigned out the review of repair garage requirements in the NEC® as compared to the IFC® requirements and to review the NFPA 2®, 2016 edition along with the information provided. He added the committee should be prepared to discuss both at the next meeting.

**PUBLIC COMMENTS:**

There were no public comments.

**ADJOURNMENT:** 3:06 p.m.

MS. PAULA LANEY-COWART MADE A MOTION TO ADJOURN

VOTING AYE:       Greg Armstrong                   Eric Pollard  
                      Ross Barrick                       Tom Sewell  
                      Paula Laney-Cowart             Adam Shupe  
                      Robert Lassiter                 Cary Williamson  
                      Joe McKenzie

VOTING NAY:       None

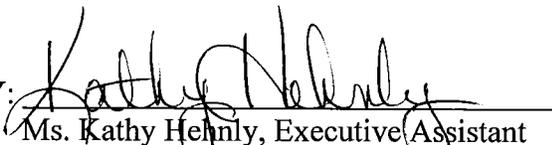
ABSENT:           Anthony Blatt                   Mitchell Hort  
                      Terrance Hellman               Jeremy Moore

ABSTAIN:         None

Minutes approved in Committee Meeting on the 25 day of April, 2016



Mr. Mitchell Hort, Chairman  
Alternative Fuels Program Technical Committee

PREPARED BY:   
Ms. Kathy Hennly, Executive Assistant  
Oklahoma Uniform Building Code Commission