

## MEMORANDUM

Dear Committee Members:

After the circulation of votes, the final ballot results are as follows on the attached ballot matrix:

- 28 Members Eligible to Vote
- 4 Ballots were not received for Technical Merit by the Final Closing Date of November 7, 2017
- 4 Ballots were not received for Emergency Nature by the Final Closing Date of November 7, 2017

### **Technical Merit**

- 14 Affirmative
- 10 Negative
- 0 Abstain

According to Section 5-4 of the Regulations Governing Committee Projects, the final results of the TIA # 002-18 ballot did not achieve the necessary three-fourths majority for affirmative vote (18) on Technical Merit (28 eligible - 4 not returned - 0 abstain =  $24 \times 75\% = 18$ ).

### **Emergency Nature**

- 12 Affirmative
- 12 Negative
- 0 Abstain

According to Section 5-4 of the Regulations Governing Committee Projects, the final results of the TIA # 002-18 ballot did not achieve the necessary three-fourths majority for affirmative vote (18) on Emergency Nature (28 eligible - 4 not returned - 0 abstain =  $24 \times 75\% = 18$ ).

Please feel free to contact me by phone at (909) 230-5535 or by email at [enrique.gonzalez@iapmo.org](mailto:enrique.gonzalez@iapmo.org), if you have questions.

Regards,

Enrique Gonzalez  
Staff Liaison  
The IAPMO Group  
4755 E. Philadelphia St.  
Ontario, California 91761  
Office: 909-230-5535  
Fax: 909-472-4246

**2018 Uniform Mechanical Code  
TIA # 002-18  
Final Ballot Results**

<b>Ballot Name:</b>	TECHNICAL MERIT UMC TIA # 002-18
<b>Ballot Status:</b>	Ballot has closed.
<b>Members Eligible to Vote:</b>	28
<b>Vote Summary</b>	
<b>Option</b>	<b>Count</b>
<b>Affirmative</b>	14
<b>Negative</b>	10
<b>Abstain</b>	0
<b>Did not vote</b>	4
<b>Voter Name</b>	<b>Vote</b>
Wiseman, Bob	Affirmative
Koerber, Ralph	Affirmative
Lovell, Vickie	Affirmative
Hargis, Shawn	Affirmative
Feehan, Pennie	Affirmative
Trafton, April	Affirmative
Chang, Ian	Affirmative
Smith, Christopher	Affirmative
Surrena, Donald	Affirmative
Delaquila, David	Affirmative
Cudahy, Michael	Affirmative
Scarano, Anthony	Affirmative
Howard, III, Eli	Affirmative
Carroll, Marguerite	Affirmative
Mann, David	Negative w/ comment
Adler, Bob	Negative w/ comment
Taylor, Don	Negative w/ comment
Dias, David	Negative w/ comment
Berger, Donald	Negative w/ comment
Ribbs, Phil	Negative w/ comment
Sewell, Robert	Negative w/ comment
Young, Randy	Negative w/ comment
Nielsen, John	Negative w/ comment
Afonso, Mike	Negative w/ comment
Van Rite, Chris	Did not vote
Garcia, Roel	Did not vote
Kreitenberg, Harvey	Did not vote
Pavesic, James	Did not vote

<b>Ballot Name:</b>	EMERGENCY NATURE UMC TIA # 002-18
<b>Ballot Status:</b>	Ballot has closed.
<b>Members Eligible to Vote:</b>	28
<b>Vote Summary</b>	
<b>Option</b>	<b>Count</b>
<b>Affirmative</b>	12
<b>Negative</b>	12
<b>Abstain</b>	0
<b>Did not vote</b>	4
<b>Voter Name</b>	<b>Vote</b>
Wiseman, Bob	Affirmative
Koerber, Ralph	Affirmative
Hargis, Shawn	Affirmative
Feehan, Pennie	Affirmative
Trafton, April	Affirmative
Chang, Ian	Affirmative
Smith, Christopher	Affirmative
Surrena, Donald	Affirmative
Cudahy, Michael	Affirmative
Scarano, Anthony	Affirmative
Howard, III, Eli	Affirmative
Carroll, Marguerite	Affirmative
Lovell, Vickie	Negative w/ comment
Mann, David	Negative w/ comment
Adler, Bob	Negative w/ comment
Taylor, Don	Negative w/ comment
Delaquila, David	Negative w/ comment
Dias, David	Negative w/ comment
Berger, Donald	Negative w/ comment
Ribbs, Phil	Negative w/ comment
Sewell, Robert	Negative w/ comment
Young, Randy	Negative w/ comment
Nielsen, John	Negative w/ comment
Afonso, Mike	Negative w/ comment
Van Rite, Chris	Did not vote
Garcia, Roel	Did not vote
Kreitenberg, Harvey	Did not vote
Pavesic, James	Did not vote



ASHRAE  
ASHRAE  
ASHRAE  
ASHRAE  
ASHRAE  
ASHRAE  
ASHRAE  
ASHRAE  
ASHRAE  
ASHRAE

- <sup>6</sup> The RCL values for these refrigerant blends are approximated in the absence of adequate data for a component comprising less than 4 percent m/m of the blend and expected to have only a small influence in an acute, accidental release.
- <sup>7</sup> Refrigerant flammability classification of Class 2L shall comply with the requirements for flammability classification of Class 2.
- <sup>8</sup> In accordance with Section 1102.2, ammonia refrigeration systems are not regulated by this chapter. R-717 (ammonia) is included in this table because the table is extracted from ASHRAE 34 and is not capable of being modified.

(portions of table not shown remain unchanged)

**Substantiation:**

**Technical Merit:** Azeotropes are “an azeotropic blend containing two or more refrigerants whose equilibrium vapor and liquid phase compositions are the same at a given pressure.” Azeotropes are designated in the 500 series of refrigerants. The current footnote “3” is specific to azeotropes and not the entire column (Chemical Formula). Furthermore, the modification updates the Table 1102.2 to include all refrigerants listed in Table 4-1 & 4-2 of ASHRAE 34-2016, latest edition.

**Emergency nature:** The emergency nature of this proposed TIA is supported by Section 5-2(a) of the Regulations Governing Committee Projects, “*The document contains an error or an omission that was overlooked during a regular revision process.*” The current Uniform Mechanical Code contains “footnote 3” for the entire column (Chemical Formula) which can lead to confusion and may lead to an incorrect designation of a refrigerant. The modifications are based on ASHRAE 15-2016, latest edition, which is currently referenced for the 2018 edition of the UMC.

I hereby grant IAPMO all and full rights in copyright, in this proposal, and I understand that I acquire no rights in any publication of IAPMO in which this proposal appears in this or another similar or analogous form.

Submitter signature (required):     April Trafton     Date:   October 24, 2017  

Mail to: Codes Department · IAPMO · 4755 E. Philadelphia Street · Ontario · CA · 91761-2816, Fax: 909-472-4246