

APPENDIX C CODE CHANGE PROPOSAL NORTH CAROLINA BUILDING CODE COUNCIL

Item B-4

325North Salisbury Street, Room 5_44 Raleigh, North Carolina 27603 (919) 647-0009 carl.martin@ncdoi.gov

Petition for Rule Making Item Number				
Granted by BCC Denied by BCC		Approved by RRC Objection by RRC		
PROPONENT:		PHONE: (219) 922-6171		
ADDRESS: 16	NG: JB Engineering and Code Consulting, P.C.			
	unster STATE: IN	ZIP: 46321		
	Engineer@aol.com	FAX: (219) 922-6172		
	Zingini vi Guerre em	21220 (222) 222 0272		
North Carolina	State Building Code, 2024 North Carolina Mechani	cal Code – Chapter 15		
CHECK ONE.	[V] Derive and a full of the second of the s	4		
CHECK ONE:		te section and substitute the following te section without substitution:		
	[] Add new section to read as follows.	te section without substitution.		
LINE THROUG	H MATERIAL TO BE DELETED UNDERL	INE MATERIAL TO BE ADDED		
Places type Conti	nue proposal or reason on plain paper attached to this form. S	Con reverse side for instructions		
Flease type. Colli	nue proposar of reason on plant paper attached to this form.	see reverse side for instructions.		
	ASHRAE			
ASHRAE	1791 Tullie Circle, NE			
	Atlanta, GA 30329			
15— 2019 2022	Safety Standard for Refrigeration Systems	1101.1, 1106.4.2		
24 20102022	Designation and Coffee Classification CD Ci	1102.2.1, 1103.1, Table		
3 4 <u>2019</u>2022	Designation and Safety Classification of Refrigera	ints 1103.1		

UL UL LLC 333 Pfingsten Road Northbrook, IL 60062-2096

Compressor

UL/CSA 60335-2-40-20192022

Household And Similar Electrical Appliances - Safety — Part 2-908.1, 916.1, 40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers

UL/CSA 60335-2-89-472021

Household And Similar Electrical Appliances - Safety — Part 2-89: Particular Requirements for Commercial Refrigerating Appliances with an Incorporated or Remote Refrigerant Units or

Will this proposal change the cost of construction? Decrease []	Increase []	No	[X]
Will this proposal increase to the cost of a dwelling by \$80 or more?	Yes []	No	[X]
Will this proposal affect the Local or State funds? Local []	State []	No	[X]
Will this proposal cause a substantial economic impact (\geq \$1,000,000)?	Yes []	No	[X]

- Non-Substantial Provide an economic analysis including benefit/cost estimates.
- Substantial The economic analysis must also include 2-alternatives, time value of money and risk analysis.
- Pursuant to \$143-138(a1)(2) a cost-benefit analysis is required for all proposed amendments to the NC Energy Conservation Code. The Building Code Council shall also require same for the NC Residential Code, Chapter 11.

REASON:

These proposed amendments are based on the 2024 North Carolina Mechanical Code language but include updates based on approved 2024 ICC International Mechanical Code changes to these referenced standards – as related to A2L refrigerants.

Updating noted standards to the 2022 editions are needed because computer room air conditioners and data center air conditioners using A2L refrigerants are not addressed in the UL/CSA 60335-2-40-2019 standard. These are only addressed in the UL/CSA 60335-2-40-2022 edition. The ASHRAE 15-2022 standard has revised installation requirements for equipment using A2L refrigerants. The ASHRAE 34-2022 standard has new refrigerants added.

UL 60335-2-89 is being added to allow for the use of new Low GWP, Group A2L refrigerants to be used in refrigeration equipment. This UL/CSA 60335-2-89 standard was added in the 2021 IMC but updated to the 2021 edition in the 2024 IMC.

I am simply bringing them forward for early adoption to help speed the transition to new lower GWP A2L refrigerants until such time as North Carolina adopts the 2024 I-Codes.

Signature: Julius Ballanco Date: 5/18/2023 FORM 11/26/19

INSTRUCTIONS

Each proposed Code change request shall comply with the following policies:

Rule 1: The Original and twenty-two (22) copies of the proposed Petition for Rule-Making along with supporting documentation shall be filed with the Building Code Council Secretary. Submit one (1) electronic copy via email.

Rule 2: The filing shall be received by the first day of the month prior to the quarterly scheduled meeting date. Example: A December meeting date will require filing by November 1 prior to the meeting.

Rule 3: Each request shall be typewritten on this form and shall contain the following:

- (1) The proposed rule change must be set forth in full and contain explicit reference to the affected section or sections of the Code.
- (2) The request shall state the reasons for the proposed rule change with supporting documentation.
- (3) The proposed rule change shall comply with the standards set forth in GS 143-138(c) and reference to the particular standards shall be set forth in the request for the amendment.
- (4) The proposed rule change shall contain an economic impact analysis as required by GS 143-138(a).
- (5) A proposed rule change to the NC Energy Conservation Code shall have an accompanying cost-benefit analysis as required by GS 143-138(a1)(2).

Rule 4: When a request is improperly filed or not in accordance with all the rules listed above, the BCC Secretary shall reject the submittal and notify the applicant of the proper procedure to follow.

Rule 5: Upon the proper filing of a request, the BCC Secretary shall forward one copy of said request to each council member prior to the scheduled meeting date. Persons filing proposed petitions are hereby notified of the place and time of the scheduled hearings. The BCC Secretary shall cause to be published the notice of public hearing as specified in GS 143-138(a).

Rule 6: The Council shall either Grant or Deny the proposed Petition for Rulemaking at the meeting following receipt of the proposed rule change. The Council will take no further action on items that are Denied. Granted items may be referred to Committee for review.

Rule 7: The Council will hold a public hearing on Granted items at the next quarterly scheduled meeting. The Council will take final action on Granted items at the next quarterly scheduled meeting after the public hearing.

Timeline Example

Petition received: February 1

Petition Granted: March BCC meeting

Notice of Hearing published: April NC Register

Committee review: May - June

Hearing held: June BCC meeting

Final Adoption: September BCC meeting

Rules Review Meeting: November RRC meeting

Approved: December 1