**Proposed Revisions to the 2017 Florida Building Code – Mechanical, Sixth Edition**

**SECTION 908
COOLING TOWERS, EVAPORATIVE CONDENSERS AND FLUID COOLERS**

**908.1 General.**

A cooling tower used in conjunction with an air-conditioning appliance shall be installed in accordance with the manufacturer’s instructions. Factory-built cooling towers shall be listed in accordance with UL 1995 or UL/CSA 60335-2-40.

**SECTION 918
FORCED-AIR WARM-AIR FURNACES**

**918.1 Forced-air furnaces.**

Oil-fired furnaces shall be tested in accordance with UL 727. Electric furnaces shall be tested in accordance with UL 1995 or UL/CSA 60335-2-40. Solid fuel furnaces shall be tested in accordance with UL 391. Forced-air furnaces shall be installed in accordance with the listings and the manufacturer’s instructions.

**918.2 Heat pumps.**

Electric heat pumps shall be tested in accordance with UL 1995 or UL/CSA 60335-2-40.

**SECTION 1101
GENERAL**

**1101.2 Factory-built equipment and appliances.**

Listed and labeled self-contained, factory-built equipment and appliances shall be tested in accordance with UL 207, 412, 471, ~~or~~ 1995 or UL/CSA 60335-2-40. Such equipment and appliances are deemed to meet the design, manufacture and factory test requirements of this code if installed in accordance with their listing and the manufacturer’s instructions.

**CHAPTER 15
REFERENCED STANDARDS**

**ASHRAE**

15—~~2013~~2019 Safety Standard for Refrigeration Systems

1101.6, 1105.8, 1108.1

34—~~2013~~2019 Designation and Safety Classification of Refrigerants

202, 1102.2.1, 1103.1

**CSA**

UL/CSA 60335-2-40-2019 Household And Similar Electrical Appliances - Safety - Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers – 3rd Edition

**UL**

1995—~~2011~~2015 Heating and Cooling Equipment

908.1, 911.1, 918.1, 918.2, 1101.2

UL/CSA 60335-2-40-2019 Household And Similar Electrical Appliances - Safety - Part 2-40: Particular Requirements for Electrical Heat Pumps, Air-Conditioners and Dehumidifiers – 3rd Edition

Rationale: UL 1995 will be sunsetted effective 1/1/2024. UL 1995 standard is being replaced by UL/CSA 60335-2-40 standard for most products and the latest edition of this standard is the 3rd Edition – 2019. Adding the reference to UL/CSA 60335-2-40 along with UL 1995 allows manufacturers to start certifying product to this standard and avoiding conflicts with AHJs in the State of FL. The 2017 Florida Building Code – Residential, Sixth Edition already includes equivalent references to UL/CSA 60335-2-40 for UL 1995 and this should be done in the Florida Mechanical Code also.

Please see the attached notification from UL concerning this transition from UL 1995 to UL/CSA 60335-2-40. The 2021 ICC International Mechanical Code will include a reference to UL/CSA 60335-2-40 in the sections identified. This was accomplished by a code change submitted by UL during the 2018 ICC Code Change Cycle.

While the current proposal in front of the Florida Building Commission is to update the ASHRAE 15 and ASHRAE 34 standards to the 2016 edition, my proposal is to update these referenced standards to the 2019 editions. This would allow for products approved to the latest version of the newest UL Standard to be included. Many manufacturers, including Goodman, will be transitioning away from UL 1995 to UL 60335-2-40 for new products over the next few years, because UL 1995 be obsoleted effective 1/1/2024 (please see attached timeline from UL and attached white paper from Intertek [1]). The newest 3rd edition of UL 60335-2-40, published November 2019 has many new requirements for electrical and refrigerant safety. The 3rd edition includes requirements for UV-C germicidal lamp systems, CO2 systems, photovoltaic systems, new marking requirements, water ingress rating system as well as allowances for Low GWP Group A2L refrigerants. ASHRAE 34-2019 includes many new Low GWP refrigerants that do not appear in previous editions of the standard. It should be noted that the 2021 ICC International Mechanical Code references the 2019 edition of ASHRAE 15 and ASHRAE 34.

[1] Note that Intertek wrote their white paper (referencing the 2nd edition of UL 60335-2-40) prior to publication of the 3rd edition. The 3rd edition scope is modified such that all products within the scope of UL 1995 (a problem with the 2nd edition mentioned in the white paper) are now within scope of UL 60335-2-40.