Proponent: Brenda Thompson, Clark County Development Services, Las Vegas, NV, representing Chair of the ICC Sustainability, Energy and High Performance Code Action Committee (SEHPCAC) SEHPCAC

Delete without substitution:

807.5.3 Separating assemblies. Wall and floor-ceiling assemblies that separate a mechanical or emergency generator equipment room or space from the remainder of the building shall have a sound transmission class (STC) of not less than 60 determined in accordance with ASTM E 90 and ASTM E 413, or for concrete masonry and clay masonry assemblies as calculated in accordance with TMS 0302 or as determined in accordance with ASTM E 90 and ASTM E 413.

807.5.4 HVAC background sound. HVAC system caused background sound levels for all modes of operation within rooms shall be in accordance with the lower and upper noise criteria (NC) limits as shown in Table 807.3.2. Special inspections shall be required and conducted in accordance with Section 903.1 in order to demonstrate compliance.

807.6 Special inspections for sound transmission. An approved agency, employed by the building owner, shall furnish report(s) of test findings indicating that the results are in compliance with this section and the construction documents. Discrepancies shall be brought to the attention of the design professional and code official prior to the completion of that work. A final testing report documenting required testing and corrections of any discrepancies noted in prior tests shall be submitted at a point in time agreed upon by the building owner, or building owner’s agent, design professional, and the code official for purposes of demonstrating compliance.

Exception: Test reports are not required for approved assemblies with an established sound transmission class (STC) rating.

807.6.1 Testing for mechanical and emergency generator equipment outside of buildings. In accordance with Section 807.3.1, all mechanical and emergency generator equipment shall be field tested in accordance with Table 903.1. Testing shall be conducted following the complete installation of the equipment or generators, the installation of sound reduction barriers, and balancing and operation of the equipment or generators. Testing shall be at locations representing the four cardinal directions from the face of the project building. Such testing shall occur on a Tuesday, Wednesday, or Thursday at both the day and night times within the periods shown in Table 807.3.1.

807.6.2 Testing for building system background noise. Testing shall be executed in accordance with Section 807.3.1 within not less than 50 percent of the total number of rooms contained in a building or structure, exclusive of closets and storage rooms less than 50 square feet (4.65 m²) in area, and exclusive of toilet facilities in accordance with Table 903.1. Testing shall occur following the complete installation of the equipment and systems, the installation of any sound reduction barriers, and balancing and operation of the equipment and systems.

Reason: This proposal deletes sections that are essentially duplicated in Section 807. The following sections are the duplicated sections that are to remain unchanged:

807.2.2 Mechanical and emergency generator equipment and systems. Wall and floor-ceiling assemblies that separate a mechanical equipment room or space from the remainder of the building shall have a sound transmission class (STC) of not less than 50 or an apparent sound transmission class (ASTC) of not less than 45 if the completed construction is field tested. Wall and floor-ceiling assemblies that separate a generator equipment room or space from the remainder of the building shall have a sound transmission class (STC) of not less than 60 or an apparent sound transmission class (ASTC) of not less than 55 if the completed construction is field tested.
807.3.2 **Sound of HVAC and mechanical systems within buildings.** Sound levels within rooms generated by HVAC and mechanical systems within the building, including electrical generators used regularly but excluding emergency generators, for all modes of operation shall not exceed the limits shown in Table 807.3.2.

807.4 **Structure-borne sounds.** Floor and ceiling assemblies between dwelling rooms or dwelling units and between dwelling rooms or dwelling units and public or service areas within the structure in occupancies classified as Group A1, A2, A3, B, E, I, M or R shall have an impact insulation classification (IIC) rating of not less than 50 where laboratory-tested and 45 where field-tested when tested in accordance with ASTM E 492. New laboratory tests for impact insulation class (IIC) of an assembly are not required where the IIC has been established by prior tests.

807.5 **Special inspections for sound levels.** An approved agency, funded by the building owner, shall furnish report(s) of test findings indicating that the sound level results are in compliance with this section, applicable laws and ordinances, and the construction documents. Discrepancies shall be brought to the attention of the design professional and code official prior to the completion of that work. A final testing report documenting required testing and corrections of any discrepancies noted in prior tests shall be submitted at a point in time agreed upon by the building owner, or building owner’s agent, design professional, and the code official for purposes of demonstrating compliance.

807.5.1 **Testing for mechanical and electrical generator equipment outside of buildings.** Special inspections shall be conducted in accordance with Section 903.1 to demonstrate compliance with the requirements of Section 807.3.1. Testing shall be conducted following the complete installation of the equipment or generators, the installation of sound reduction barriers, and balancing and operation of the equipment or generators. Testing shall be at locations representing the four cardinal directions from the face of the project building. Such testing shall demonstrate that the equipment is capable of compliance with the night-time limits under normal night-time operating conditions, and if higher sound levels are possible during the daytime, compliance with the daytime limits shall also be demonstrated.

807.5.2 **Testing for building system background noise.** Special inspections shall be conducted in accordance with Section 903.1 to demonstrate compliance with the requirements of Section 807.3.2. Testing shall be executed within not less than 50 percent of the total number of rooms contained in a building or structure of the types listed in Table 807.3.2 for the given occupancy in accordance with Table 903.1. Testing shall occur following the complete installation of the equipment and systems, the installation of any sound reduction barriers, and balancing and operation of the equipment and systems.

These sections that are proposed to be deleted are virtually identical to the corresponding provisions in Public Version 2.0 of the IgCC (the version that preceded the 2012 IgCC). The sections that remain are the versions that were improved in the code development process that led to the creation of the 2012 IgCC. The IgCC committee in the 2011 Code Development Cycle apparently inadvertently approved code changes that led to this duplication.

Although the sections proposed to be deleted are not identical to those that are to be retained, they are substantially similar. The SEHPCAC realizes that there may be some information in the deleted proposals that may be valid. However, this level of redundancy creates much confusion and any information in the sections that are proposed to be deleted can be addressed in the public comment period by any interested parties.

The following table shows the existing sections to be retained and the corresponding redundant sections that are proposed to be deleted:

<table>
<thead>
<tr>
<th>Existing Sections/Titles to be Retained</th>
<th>Corresponding Redundant Sections/Titles to be Deleted</th>
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<tbody>
<tr>
<td>807.2.2 Mechanical and emergency generator equipment and systems.</td>
<td>807.5.3 Separating assemblies.</td>
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<td>807.3.2 Sound of HVAC and mechanical systems within buildings.</td>
<td>807.5.4 HVAC background sound.</td>
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<td>807.5 Special inspections for sound levels.</td>
<td>807.6 Special inspections for sound transmission.</td>
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<tr>
<td>807.5.1 Testing for mechanical and electrical generator equipment outside of buildings.</td>
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<tr>
<td>807.5.2 Testing for building system background</td>
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</table>

This proposal was submitted by the ICC Sustainability Energy and High Performance Code Action Committee (SEHPCAC). The SEHPCAC was established by the ICC Board of Directors to pursue opportunities to improve and enhance International Codes with regard to sustainability, energy and high performance as it relates to the built environment included, but not limited to, how these criteria relate to the International Green Construction Code (IGCC) and the International Energy Conservation Code (IECC). This includes both the technical aspects of the codes as well as the code content in terms of scope and application of referenced standards. In 2012 and 2013, the SEHPCAC has held six two-day open meetings and 50 workgroup calls, which included members of the SEHPCAC as well as any interested parties, to discuss and debate proposed changes and public comments. Related documentation and reports are posted on the SEHPCAC website at: http://www.iccsafe.org/cc/SEHPCAC/Pages/default.aspx.

**Cost Impact:** Will not increase the cost of construction

GG255-14 : 807.5.3-THOMPSON356