Not the complete Standard
This is an excerpt of Appendix G

Standard 90.1-2013
Appendix G
Performance Rating Method

Excerpt from ANSI/ASHRAE/IES Standard 90.1-2013 (I-P)

This document is an intermediate version of Normative Appendix G to ANSI/ASHRAE/IES Standard 90.1-2013. It incorporates addenda to the 2013 edition of the standard current as of August 11, 2015. These addenda are included in the 2015 Addenda Supplement to Standard 90.1, which can be downloaded for free online at www.ashrae.org/standards.

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INTRODUCTION

This document presents a revised version of Normative Appendix G, "The Performance Rating Method," to Standard 90.1. It includes the version of the appendix published in Standard 90.1-2013 (I-P edition) plus addenda ***k****,* ***r****,* ***z****,* ***aa****,* ***ad****,* ***bm****, and* ***dx****. Of these, addendum bm is the most significant.*

Addendum bm *makes two major changes to Appendix G. First, it allows Appendix G to be used as a path for compliance with the standard. Previously Appendix G was used only to rate "beyond code" performance of buildings. Using this new version of Appendix G to show compliance with the 2016 version of the standard, the proposed building design needs to have a Performance Cost Index (PCI) less than that shown in Table 4.2.1.1 based on building type and climate zone. The second change is that the baseline design is now fixed at a certain level of performance, the stringency of which is expected not to change with subsequent versions of the standard. By this, a building of any era can be rated using the same method. The intent is that any building energy code or beyond-code program can use this methodology and simply set the appropriate target for their needs analogous to those in Table 4.2.1.1. Therefore, a beyond-code program may wish to set a target less than is shown in Table 4.2.1.1 (a target of 0 is a net zero building), while compliance with a previous version of the standard may wish to set a target above what's shown in Table 4.2.1.1. Because unregulated loads are not included in the compliance target in Table 4.2.1.1, beyond-code programs that encourage improvement in unregulated loads may wish to modify the target to include those loads.*

Portions of Sections 3 and 4 that are modified by addendum bm are reproduced in this publication for convenience.

Following is a brief description of the other addenda included:

- ***Addendum k*** *directs the modeler to use the default assemblies in Appendix A for baseline opaque envelope assemblies.*
- ***Addendum r*** *establishes the hierarchy of the decision-making process for selecting baseline HVAC systems.*
- ***Addendum z*** *provides detail on the simulation of baseline building heat pumps, including how auxiliary heat is used in conjunction with heat-pump heating.*
- ***Addendum aa*** *provides direction regarding when it is appropriate to model a heating-only system in Appendix G.*
- ***Addendum ad*** *clarifies when baseline HVAC systems should be modeled with preheat coils.*
- ***Addendum dx*** *makes changes to the baseline lighting power allowances in Appendix G.*

As several entities have expressed interest in developing programs based on the revised appendix, this version of Appendix G is being released outside of the normal three-year publication cycle of Standard 90.1. It is also being released to give advanced notice to software developers that may be interested in automating the process of creating the Appendix G baseline. While it is likely that the version of Appendix G published in the 2016 edition of the standard will include additional changes to Appendix G, it is not likely that they will be as extensive as those included in addendum bm.