

**INTERPRETATION IC 90.1-2016-13 OF
ANSI/ASHRAE/IES STANDARD 90.1-2016
Energy Standard for Buildings Except Low-Rise Residential Buildings**

Date Approved: June 5, 2020

Request from: Michael Tillou, Pacific Northwest National Laboratory, 111 Amherstdale Road, Buffalo, NY 14226.

Reference: This request for interpretation refers to the requirements presented in ANSI/ASHRAE/IES Standard 90.1-2016, Table G3.2 Part 6, regarding Appendix G baseline building exterior lighting.

Background: Table G3.1 Section 6 describes the lighting systems that must be included in the energy analysis using Appendix G. Item e in the Proposed Building Design column requires façade lighting to be included in the energy model but does not mention other types of exterior lighting. It is unclear whether other types of exterior lighting should be included in the energy model. In 90.1-2019 the words “building facades” was changed to “exterior lighting”

Table G3.1 Section 6 under baseline building design requires any exterior lighting other than exterior lighting of Tradeable Surfaces to be modeled the same as in the proposed building design, however Table G3.6 includes exterior lighting power allowances for non-tradeable surfaces. It is unclear whether the allowances for exterior lighting of non-tradeable surfaces in Table G3.6 should ever be used in the Baseline Building Design. The non-tradeable allowances are not included in Table G3.6 in 90.1-2019.

Interpretation No.1: In Table G3.1 Section 6, the use of the defined term *lighting system* refers to both interior and exterior *lighting systems* and the intent is that all exterior *lighting systems* be included in the Proposed Building Design.

Question No.1: Is this interpretation correct?

Answer No.1: Yes.

Interpretation No.2: Table G3.1 Section 6 requires Other exterior lighting power to be the same in the baseline building design as it is in the proposed building design, therefore the non-tradeable exterior lighting power allowances in Table G3.6 should never be used.

Question No.2: Is this interpretation correct?

Answer No. 2: Yes.

Comments: The statement in your background “The non-tradeable allowances are not included in Table G3.6 in 90.1-2019,” is not accurate until Addendum AF is published.