**Proposed Modification to REPI-157-21**

Revise REPI-157-21 as follows:

**APPENDIX RC (APPENDIX AX)**

**NET ZERO ENERGY RESIDENTIAL BUILDING PROVISIONS**

**SECTION RC102 (AX102)**

**NET ZERO ENERGY RESIDENTIAL BUILDINGS**

**RC102.1 General.** New *residential buildings* shall comply with the requirements of Sections ~~Section~~ RC102.2 through RC102.3.

RC102.2 (AX102.2) Requirements. New residential buildings shall comply with all of the following: 1. Table R406.2, 2. ASHRAE/IES Standard 90.2, 3. the ERI requirements of ASHRAE/IES 90.2 Table 6-1 without the use of on-site power production (OPP), and 4. achieve an ERI of less than or equal to zero through additional efficiency measures, the use of OPP, or a combination of the two.

**RC102.2 (AX102.2) Requirements.** New residential buildings shall comply with ~~all of~~ the following:

1. Table R406.2, and

2. ~~ASHRAE/IES Standard 90.2,~~ One of

a) The ERI not including OPP requirements of Table RC102.2, or

b) The requirements of ASHRAE/IES Standard 90.2, including the ERI requirements of ASHRAE/IES 90.2 Table 6-1 without the use of on-site power production (OPP)

~~3. the ERI requirements of ASHRAE/IES 90.2 Table 6-1 without the use of on-site power production (OPP), and~~

~~4. achieve an ERI of less than or equal to zero through additional efficiency measures, the use of OPP, or a combination of the two.~~

**RC102.3 (AX102.3) On-site Power Production.** New residential buildings shall achieve an ERI of less than or equal to zero through additional efficiency measures and the use of OPP or a combination of the two.

**~~RC102.2.1 (AX102.2.1)~~** **RC102.3.1 (AX102.3.1) Adjusted On-site Power Production Calculation.** Where Energy Rating Index (ERI) values for on-site power production (OPP) include Community Renewable Energy Facility (CREF), Renewable Energy Purchase Contract (REPC), or both, an adjusted OPP shall be calculated in accordance with Equation RC-1.

**TABLE RC102.2 MAXIMUM ENERGY RATING INDEXa**

|  |  |  |
| --- | --- | --- |
| CLIMATE ZONE | ENERGY RATING INDEX NOT INCLUDING OPP | ENERGY RATING INDEX INCLUDING ADJUSTED OPP (as proposed) |
| 1 | 43 | 0 |
| 2 | 45 | 0 |
| 3 | 47 | 0 |
| 4 | 47 | 0 |
| 5 | 47 | 0 |
| 6 | 46 | 0 |
| 7 | 46 | 0 |
| 8 | 46 | 0 |

a. The building shall meet the requirements of Table R406.2, and the building thermal envelope shall be greater than or equal to the levels of efficiency and SHGC in Table R402.1.2 or R402.1.3.