

# SOUTHERN NEVADA CODE AMENDMENT FORM – 2024

AMENDMENT NO.: EC24 066.02

COMMITTEE: 2024 IECC Committee

CODE SECTION: R406.2, R406.4 & R406.5

PROPONENT: SNHBA & RESNET (Paulette McGhie & Melany Quintero)

**PROPOSAL:** Aligning the ERI to meet Prescriptive Measures of 2024 IECC, to include Quality Assurance with requirements to upload to the Resnet Registry. This will assist builders with more cost-effective building choices while tracking energy efficiency & carbon reduction when using this pathway. It will provide Energy Savings & Carbon Reduction data for ESG reporting.

## REVISE AS FOLLOWS:

*Key: Underlined portions are Proponent's proposed revisions.*

### 1. **Revise section R406.2 as follows:**

**R406.2 ERI compliance.** Compliance based on the *ERI* requires that the *rated design* and as built *dwelling unit* meet all of the following:

1. The requirements of the sections indicated within **Table R406.2**.
2. Maximum *ERI* values indicated in **Tables R406.5 (1-6)**, based on permit date.

### 2. **Revise section R406.4 as follows:**

**R406.4 Energy Rating Index.** The *Energy Rating Index* (ERI) shall be determined in accordance with the most current version of **ANSI/RESNET/ICC 301** as adopted by the Residential Energy Services Network. The mechanical *ventilation* rates used for the purpose of determining the *ERI* shall not be construed to establish minimum *ventilation* requirements for compliance with this code.

[Remainder of section left unchanged.]

### 3. **Revise section R406.5 as follows:**

**R406.5 ERI-based compliance.** Compliance based on an *ERI* analysis requires that the *rated design* and each confirmed as-built *dwelling unit* be shown to have an *ERI* less than or equal to the appropriate value indicated in **Table R406.5 (1-6)** where compared to the *ERI reference design* as follows:

1. Where on-site renewables are not installed, the values under ENERGY RATING INDEX NOT INCLUDING OPP apply.
2. Where on-site renewables are installed, the values under ENERGY RATING INDEX WITH OPP apply.
3. Where the building meets the mandatory requirements of the 2024 International Energy Conservation Code

4. Where the building thermal envelope is equal to or greater than the levels of efficiency and solar heat gain coefficient in Table R402.1.2 or 402.1.4 of the 2024 International Energy Conservation Code.
5. Where all confirmed as-built dwelling units shall be subject to quality assurance oversight by an independent third party (An EPA or DOE approved HCO)
6. Where all confirmed ERI scores to be uploaded to the HERS Registry
7. Removing Slab Edge insulation requirement moved the score from 53 to 56.

**[Remainder of Section Left Unchanged]**

4. **Delete Table R406.5 and replace with the following:**

**TABLE R406.5 (1)**

**MAXIMUM ENERGY RATING INDEX NOT INCLUDING OPP**

<b><u>CLIMATE ZONE</u></b>	<b><u>ENERGY RATING INDEX</u></b>
<u>3</u>	<u>56</u>
<u>5</u>	<u>58</u>

<sup>1</sup> This table is effective January 2025 to 2027

**TABLE R406.5 (2)**

**MAXIMUM ENERGY RATING INDEX WITH OPP**

<b><u>CLIMATE ZONE</u></b>	<b><u>ENERGY RATING INDEX</u></b>
<u>3</u>	<u>33</u>
<u>5</u>	<u>43</u>

<sup>1</sup> This table is effective January 2025 to 2027

**TABLE R406.5 (3)**

**MAXIMUM ENERGY RATING INDEX NOT INCLUDING OPP**

<b><u>CLIMATE ZONE</u></b>	<b><u>ENERGY RATING INDEX</u></b>
<u>3</u>	<u>52</u>
<u>5</u>	<u>54</u>

<sup>1</sup> This table is effective January 2028 to 2030

**TABLE R406.5 (4)**

**MAXIMUM ENERGY RATING INDEX WITH OPP**

<b><u>CLIMATE ZONE</u></b>	<b><u>ENERGY RATING INDEX</u></b>
<u>3</u>	<u>33</u>
<u>5</u>	<u>43</u>

<sup>1</sup> This table is effective January 2028 to 2030

**TABLE R406.5 (5)**

**MAXIMUM ENERGY RATING INDEX NOT INCLUDING OPP**

<b><u>CLIMATE ZONE</u></b>	<b><u>ENERGY RATING INDEX</u></b>
<u>3</u>	<u>48</u>
<u>5</u>	<u>51</u>

<sup>1</sup> This table is effective January 2031 to 2033

**TABLE R406.5 (6)**

**MAXIMUM ENERGY RATING INDEX WITH OPP**

<b><u>CLIMATE ZONE</u></b>	<b><u>ENERGY RATING INDEX</u></b>
<u>3</u>	<u>33</u>
<u>5</u>	<u>43</u>

<sup>1</sup> This table is effective January 2031 to 2033

**JUSTIFICATION:**

It is necessary to reference the most current version of Standard 301 (ANSI/RESNET/ICC 301) because this amendment proposal provides compliance target scores through 2033 and Standard 301 will be updated every three years. Standard 301 is the *Standard for the Calculation and Labeling of the Energy Performance of Dwelling and Sleeping Units Using an Energy Rating Index*.

Analysis using RESNET-accredited software shows when installing Prescriptive Packages, the actual ERI score is 56. Allowing builders to achieve an ERI of 56 still maintains the energy efficiency of the 2024 IECC Energy Code while allowing builders more flexibility in construction costs, which keeps the homes more affordable.

Builders can project changes to the HERS Index in advance of Code Changes allowing for a smoother transition every 3-6 years as adopted by local jurisdictions, thereby encouraging the pathway to more energy efficient homes.

The HERS Registry houses the HERS Scores, Final reports, Energy Savings & Carbon reduction data for builders, states & local jurisdictions. This information is available to appraisers, Fannie Mae & Freddie Mac, and VA loans tracking the success of advancing IECC Energy Codes.

When ERI scores are submitted to the HERS Registry, they are subject to Quality Assurance oversight by independent Quality Assurance Designees and RESNET Quality Assurance staff. Quality assurance standards include requirements for both software file reviews and field QA reviews. The Registry also uses automated quality assurance checks on every home's software file to flag inputs that may be outside normally expected bounds.

**SNBO CRITERIA:** Check all applicable SNBO Criteria that apply to amendment proposal:

A	B	X C	D	E	F	X G	H	I	J
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A: address local topographic conditions    B: address local geologic conditions    C: address local climatic conditions  
D: to address special uses/occupancies    E: to correlate provisions of a national code with other national codes or State Law  
F: clarify the intent of the codes    G: address unique designs/systems not anticipated in base codes  
H: provide for consistency in regional interpretation/application    I: address errata issues    J: address fire response capabilities

### COST IMPACT:

Standard 301 allows for more flexibility to builders to provide cost effective building practices, allowing for more affordable housing opportunities.

**COMMITTEE ACTION:** (leave blank - to be assigned by Committee Chair)

Boulder City	Clark County	Henderson	Las Vegas	Mesquite	Pahrump	North Las Vegas	CC School District	Industry		
								1	2	3
Y	Y	Y	Y	Y		Y	Y	Y	Y	

**RESULT:**   X   Approved        Failed        Withdrawn        Tabled        Other