City of Irving
Residential Energy Compliance Path
Energy Code Requirements of the 2015 IRC (IECC)
Submit with application for a building permit

Project Address: _________________________________________________

N1101.13 (R401.2) – Projects shall comply with one of the following:

☐ Option #1a – Prescriptive: Sections N1101.14 (R401) through N1104 (R404):
   N1102 (R402) Building Thermal Envelope. [Using table N1102.1.2 (R402.1.2) INSULATION AND FENESTRATION
   REQUIREMENTS BY COMPONENT]
   N1103 (R403) Systems.
   N1104 (R404) Electrical Power and Lighting Systems (Mandatory).
   Plus all mandatory provisions

☐ Option #1b – Prescriptive-Using REScheck™ UA approach Only: Sections N1101.14 (R401) through N1104 (R404):
   N1102 (R402) Building Thermal Envelope.
   N1103 (R403) Systems.
   N1104 (R404) Electrical Power and Lighting Systems (Mandatory).
   Plus all mandatory provisions

☐ Option #2 – Section N1105 (R405) Performance Approach
   Plus all mandatory provisions

☐ Option #3 – ENERGY STAR Certified Homes®

☐ Option #4 – Section N1106 (R406) Energy Rating Index Compliance Alternative
   Minimum envelope requirements > Table 402.1.1 or 402.1.3 – 2009 IECC
   Plus all mandatory provisions

☐ Option #5 – ESL 4ACH50 Tradeoff Code Equivalency Compliance a

<table>
<thead>
<tr>
<th>Envelope Component</th>
<th>Option #1</th>
<th>Option #2</th>
</tr>
</thead>
<tbody>
<tr>
<td>R402.4 Air Leakage</td>
<td>&lt; 4ACH50</td>
<td>&lt; 4ACH50</td>
</tr>
<tr>
<td>Wall Insulation Value</td>
<td>R13 + R3b</td>
<td>R13 + R3b</td>
</tr>
<tr>
<td>Fenestration U-factor/SHGC</td>
<td>&lt; 0.32/0.25</td>
<td>&lt; 0.32/0.25</td>
</tr>
<tr>
<td>Ceiling R-value</td>
<td>&gt; R49</td>
<td>&gt; R49</td>
</tr>
<tr>
<td>Duct Insulation</td>
<td>R8</td>
<td>R6</td>
</tr>
<tr>
<td>Radiant Barrier Required</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

a Except for the values listed in the table, all other mandatory code provisions are applicable.
b First value is cavity insulation, second is continuous insulation or insulated siding.

NOTE: Attach appropriate compliance option “compliance report”

I certify that I have reviewed the construction documents including, but not necessarily limited to, insulation
materials and R-values; fenestration U-factors and SHGC values; area-weighted average U-factor and SHGC
calculations; mechanical system design criteria; mechanical and service water heating system and equipment types,
sizes and efficiencies; equipment and system controls; duct sealing, duct and piping insulation and location; and air
sealing details; and that the project as designed satisfies the minimum requirements for the compliance approach
selected above.

Print Name: ____________________ Sign Name: ____________________ Date: ______________

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Prepared July 2016 by the Energy and Green Advisory Board of the Regional Codes Coordinating Committee, a committee of