

### Summary of Results versus Acceptance Criteria

| <b>Thermal Fabric Low Mass Results</b>                     |             |                  |                  |
|--|-------------|------------------|------------------|
| index  | Total_tests | TRNSYS18.05.0001 | TRNSYS18.06.0002 |
| Number Thermal Fabric Annual Heating Low Mass within range | 10          | 10               | 10               |
| Number Thermal Fabric Annual Cooling Low Mass within range | 11          | 11               | 11               |
| <b>Total Within Range</b>                                  | <b>21</b>   | <b>21</b>        | <b>21</b>        |
| <b>Met Threshold</b>                                       | <b>18</b>   | Yes              | Yes              |

| <b>Thermal Fabric High Mass Results</b>                     |             |                  |                  |
|---|-------------|------------------|------------------|
| index   | Total_tests | TRNSYS18.05.0001 | TRNSYS18.06.0002 |
| Number Thermal Fabric Annual Heating High Mass within range | 9           | 9                | 9                |
| Number Thermal Fabric Annual Cooling High Mass within range | 10          | 9                | 9                |
| <b>Total Within Range</b>                                   | <b>19</b>   | <b>18</b>        | <b>18</b>        |
| <b>Met Threshold</b>  | <b>17</b>   | Yes              | Yes              |

| <b>Cooling Equipment Results</b>                           |             |                  |                  |
|--|-------------|------------------|------------------|
| index  | Total_tests | TRNSYS18.05.0001 | TRNSYS18.06.0002 |
| Number Cooling Equip Total Energy Consumption within range | 14          | 14               | 14               |
| <b>Total Within Range</b>                                  | <b>14</b>   | <b>14</b>        | <b>14</b>        |
| <b>Met Threshold</b>                                       | <b>12</b>   | Yes              | Yes              |

| <b>Heating Equipment Results</b>                              |             |                  |                  |
|---|-------------|------------------|------------------|
| index   | Total_tests | TRNSYS18.05.0001 | TRNSYS18.06.0002 |
| Number Space Heating Equip - Total Furnace Input within range | 3           | 3                | 3                |
| Number Space Heating Equip - Total Fan Energy within range    | 3           | 3                | 3                |
| <b>Total Within Range</b>                                     | <b>6</b>    | <b>6</b>         | <b>6</b>         |
| <b>Met Threshold</b>  | <b>5</b>    | Yes              | Yes              |

| <b>Air-side Equipment Results</b>                               |             |                  |                  |
|---|-------------|------------------|------------------|
| index   | Total_tests | TRNSYS18.05.0001 | TRNSYS18.06.0002 |
| Number HVAC Air Side Equip Pre-heating Coil Load within range   | 3           | 3                | 3                |
| Number HVAC Air Side Equip Heating Coil Load within range       | 1           | 1                | 1                |
| Number HVAC Air Side Equip Cooling Coil Total Load within range | 16          | 16               | 16               |

|   |        |     |    |
|---|--------|-----|----|
| <b>Number HVAC Air Side Equip Cooling Coil Sensible Load within range</b> | 16     | 16  | 16 |
| <b>Number HVAC Air Side Equip Zone 1 Reheat Load within range</b>         | 9      | 9   | 9  |
| <b>Number HVAC Air Side Equip Zone 2 Reheat Load within range</b>         | 9      | 9   | 9  |
| <b>Total Within Range</b>   | 54     | 54  | 54 |
| <b>Met Threshold</b>  | 48 Yes | Yes |    |







### Heating Equipment Detailed Results versus Acceptance Criteria

| Ranges          |          |          |
|-----------------|----------|----------|
| test_name       | Min Pass | Max Pass |
| HEFI210         | 49.86    | 55.11    |
| HEFI220-HEFI210 | -5.48    | -.23     |
| HEFI230-HEFI220 | -9.1     | -3.86    |

| Values           |                  |
|------------------|------------------|
| TRNSYS18.05.0001 | TRNSYS18.06.0002 |
| 52.43            | 52.43            |
| -2.85            | -2.85            |
| -6.15            | -6.15            |

| Within Range     |                  |
|------------------|------------------|
| TRNSYS18.05.0001 | TRNSYS18.06.0002 |
| TRUE             | TRUE             |
| TRUE             | TRUE             |
| TRUE             | TRUE             |

| Ranges          |          |          |
|-----------------|----------|----------|
| test_name       | Min Pass | Max Pass |
| HEFE210         | 272.2    | 316.34   |
| HEFE220-HEFE210 | -37.57   | 6.58     |
| HEFE230-HEFE220 | 179.46   | 223.6    |

| Values           |                  |
|------------------|------------------|
| TRNSYS18.05.0001 | TRNSYS18.06.0002 |
| 292.08           | 292.08           |
| -15.44           | -15.44           |
| 204.95           | 204.95           |

| Within Range     |                  |
|------------------|------------------|
| TRNSYS18.05.0001 | TRNSYS18.06.0002 |
| TRUE             | TRUE             |
| TRUE             | TRUE             |
| TRUE             | TRUE             |

### Air-side Equipment Detailed Results versus Acceptance Criteria

| Ranges            |          |          |
|-------------------|----------|----------|
| test_name         | Min Pass | Max Pass |
| AEPHC301          | 2.8      | 4.2      |
| AEPHC401          | 9.75     | 10.77    |
| AEPHC301-AEPHC401 | -7.67    | -6.16    |

| Values           |                  |
|------------------|------------------|
| TRNSYS18.05.0001 | TRNSYS18.06.0002 |
| 2.95             | 2.95             |
| 10.26            | 10.26            |
| -7.31            | -7.31            |

| Within Range     |                  |
|------------------|------------------|
| TRNSYS18.05.0001 | TRNSYS18.06.0002 |
| TRUE             | TRUE             |
| TRUE             | TRUE             |
| TRUE             | TRUE             |

| Ranges    |          |          |
|-----------|----------|----------|
| test_name | Min Pass | Max Pass |
| AEHC201   | 7.94     | 8.78     |

| Values           |                  |
|------------------|------------------|
| TRNSYS18.05.0001 | TRNSYS18.06.0002 |
| 8.36             | 8.36             |

| Within Range     |                  |
|------------------|------------------|
| TRNSYS18.05.0001 | TRNSYS18.06.0002 |
| TRUE             | TRUE             |

| Ranges            |          |          |
|-------------------|----------|----------|
| test_name         | Min Pass | Max Pass |
| AECCT205          | 1.82     | 2.01     |
| AECCT245-AECCT205 | .2       | .39      |
| AECCT206          | 2.54     | 2.85     |
| AECCT226-AECCT206 | .55      | .82      |
| AECCT305          | 8.77     | 9.85     |
| AECCT305-AECCT405 | 4.55     | 5.75     |
| AECCT345-AECCT305 | -.15     | .79      |
| AECCT345-AECCT445 | 4.76     | 6.01     |
| AECCT306          | 13.65    | 15.08    |
| AECCT306-AECCT406 | 5.42     | 6.86     |
| AECCT326-AECCT306 | 5.68     | 7.12     |
| AECCT326-AECCT426 | 11.21    | 12.65    |
| AECCT405          | 3.9      | 4.31     |
| AECCT445-AECCT405 | -.15     | .26      |
| AECCT406          | 7.81     | 8.82     |
| AECCT426-AECCT406 | .2       | 1.02     |

| Values           |                  |
|------------------|------------------|
| TRNSYS18.05.0001 | TRNSYS18.06.0002 |
| 1.91             | 1.91             |
| .3               | .3               |
| 2.7              | 2.7              |
| .71              | .71              |
| 9.37             | 9.37             |
| 5.28             | 5.28             |
| .33              | .33              |
| 5.56             | 5.56             |
| 14.47            | 14.47            |
| 6.16             | 6.16             |
| 6.56             | 6.56             |
| 12.12            | 12.12            |
| 4.09             | 4.09             |
| .05              | .05              |
| 8.31             | 8.31             |
| .6               | .6               |

| Within Range     |                  |
|------------------|------------------|
| TRNSYS18.05.0001 | TRNSYS18.06.0002 |
| TRUE             | TRUE             |
| TRUE             | TRUE             |
| TRUE             | TRUE             |
| TRUE             | TRUE             |
| TRUE             | TRUE             |
| TRUE             | TRUE             |
| TRUE             | TRUE             |
| TRUE             | TRUE             |
| TRUE             | TRUE             |
| TRUE             | TRUE             |
| TRUE             | TRUE             |
| TRUE             | TRUE             |
| TRUE             | TRUE             |
| TRUE             | TRUE             |
| TRUE             | TRUE             |
| TRUE             | TRUE             |
| TRUE             | TRUE             |
| TRUE             | TRUE             |

| Ranges    |          |          |
|-----------|----------|----------|
| test_name | Min Pass | Max Pass |
| AECCS205  | 1.82     | 2.01     |

| Values           |                  |
|------------------|------------------|
| TRNSYS18.05.0001 | TRNSYS18.06.0002 |
| 1.91             | 1.91             |

| Within Range     |                  |
|------------------|------------------|
| TRNSYS18.05.0001 | TRNSYS18.06.0002 |
| TRUE             | TRUE             |

|                   |      |      |
|-------------------|------|------|
| AECCS245-AECCS205 | .2   | .39  |
| AECCS206          | 1.62 | 1.79 |
| AECCS226-AECCS206 | -.23 | -.06 |
| AECCS305          | 8.77 | 9.85 |
| AECCS305-AECCS405 | 4.55 | 5.75 |
| AECCS345-AECCS305 | -.15 | .79  |
| AECCS345-AECCS445 | 4.76 | 6.01 |
| AECCS306          | 8.3  | 9.37 |
| AECCS306-AECCS406 | 4.64 | 5.73 |
| AECCS326-AECCS306 | -.91 | -.01 |
| AECCS326-AECCS426 | 4.27 | 5.31 |
| AECCS405          | 3.9  | 4.31 |
| AECCS445-AECCS405 | -.15 | .26  |
| AECCS406          | 3.45 | 3.82 |
| AECCS426-AECCS406 | -.22 | .14  |

|      |      |
|------|------|
| .3   | .3   |
| 1.73 | 1.73 |
| -.12 | -.12 |
| 9.37 | 9.37 |
| 5.28 | 5.28 |
| .33  | .33  |
| 5.56 | 5.56 |
| 9.0  | 9.0  |
| 5.31 | 5.31 |
| -.39 | -.39 |
| 4.96 | 4.96 |
| 4.09 | 4.09 |
| .05  | .05  |
| 3.69 | 3.69 |
| -.04 | -.04 |

|      |      |
|------|------|
| TRUE | TRUE |
| TRUE | TRUE |
| TRUE | TRUE |
| TRUE | TRUE |
| TRUE | TRUE |
| TRUE | TRUE |
| TRUE | TRUE |
| TRUE | TRUE |
| TRUE | TRUE |
| TRUE | TRUE |
| TRUE | TRUE |
| TRUE | TRUE |
| TRUE | TRUE |
| TRUE | TRUE |
| TRUE | TRUE |

| Ranges            |          |          |
|-------------------|----------|----------|
| test_name         | Min Pass | Max Pass |
| AEZ1R301          | 7.23     | 8.1      |
| AEZ1R401          | 4.27     | 4.72     |
| AEZ1R301-AEZ1R401 | 2.7      | 3.6      |
| AEZ1R305          | 1.92     | 2.46     |
| AEZ1R345-AEZ1R305 | -.11     | .11      |
| AEZ1R306          | 1.92     | 2.48     |
| AEZ1R326-AEZ1R306 | -.11     | .11      |
| AEZ1R405          | .0       | .0       |
| AEZ1R406          | .0       | .0       |

| Values           |                  |
|------------------|------------------|
| TRNSYS18.05.0001 | TRNSYS18.06.0002 |
| 7.71             | 7.71             |
| 4.49             | 4.49             |
| 3.22             | 3.22             |
| 2.26             | 2.26             |
| .0               | .0               |
| 2.26             | 2.26             |
| .0               | .0               |
| .0               | .0               |
| .0               | .0               |

| Within Range     |                  |
|------------------|------------------|
| TRNSYS18.05.0001 | TRNSYS18.06.0002 |
| TRUE             | TRUE             |
| TRUE             | TRUE             |
| TRUE             | TRUE             |
| TRUE             | TRUE             |
| TRUE             | TRUE             |
| TRUE             | TRUE             |
| TRUE             | TRUE             |
| TRUE             | TRUE             |
| TRUE             | TRUE             |

| Ranges            |          |          |
|-------------------|----------|----------|
| test_name         | Min Pass | Max Pass |
| AEZ2R301          | 7.77     | 8.81     |
| AEZ2R401          | 4.63     | 5.12     |
| AEZ2R301-AEZ2R401 | 2.87     | 3.93     |
| AEZ2R305          | 2.02     | 2.71     |

| Values           |                  |
|------------------|------------------|
| TRNSYS18.05.0001 | TRNSYS18.06.0002 |
| 8.38             | 8.38             |
| 4.87             | 4.87             |
| 3.51             | 3.51             |
| 2.46             | 2.46             |

| Within Range     |                  |
|------------------|------------------|
| TRNSYS18.05.0001 | TRNSYS18.06.0002 |
| TRUE             | TRUE             |
| TRUE             | TRUE             |
| TRUE             | TRUE             |
| TRUE             | TRUE             |



|                   |      |      |
|-------------------|------|------|
| AEZ2R345-AEZ2R305 | -.12 | .12  |
| AEZ2R306          | 2.02 | 2.74 |
| AEZ2R326-AEZ2R306 | -.12 | .12  |
| AEZ2R405          | .0   | .0   |
| AEZ2R406          | .0   | .0   |

|      |      |
|------|------|
| .0   | .0   |
| 2.46 | 2.46 |
| .01  | .01  |
| .0   | .0   |
| .0   | .0   |

|      |      |
|------|------|
| TRUE | TRUE |
| TRUE | TRUE |
| TRUE | TRUE |
| TRUE | TRUE |
| TRUE | TRUE |