# Compliance Forms— Performance Rating Method

The following pages provide a sample performance rating report that conforms to the requirements of the rating method. An electronic version is available for download from ASHRAE's website.

This form is intended for use with the Performance Rating Method of ASHRAE/IES Standard 90.1 (Appendix G) when a rating shell is not used. If a rating shell is used, it should automatically generate a version of the rating report. If this form is used instead, the user should fill in the form using information taken from the output reports of the simulation program.

The performance rating report has several sections designed to make clear to the rating personnel what the building characteristics are and how the rating method has been applied to it.

### Project Name and Information

This section begins with a basic statement that the project complies with the mandatory requirements of the Standard and notes the date of the plans upon which the performance rating runs are based. This section also records basic information about the project, the people involved, the heating fuel, and the weather data used for the rating analysis.

### Space Summary

This section reports the different building uses included in the building, along with the conditioned, unconditioned and total floor area of each.  In addition, the Building Performance Factor (BPF) for each building use for the project climate zone from Table 4.2.1.1 is entered.  The total area weighted BPF is calculated here, and will be used later to determine project compliance.

### Advisory Messages

This section reports information from the simulation runs that is helpful in identifying modeling problems or special situations.

### Energy and Cost Summary by Fuel Type

This table reports the energy consumption and cost for the proposed and baseline buildings by end use.  Each end use is grouped under either regulated or unregulated energy.  Total regulated and unregulated energy cost is calculated, and summed to find the total building energy cost.  Regulated, unregulated and total energy cost for the baseline building will be used in the next section.

### Performance Cost Index Target

This section is used to calculate the Performance Cost Index Target ($PCI_t$) that the proposed building must meet.  The total area weighted BPF and the regulated, unregulated and total energy cost for the baseline building are transferred from previous tables and used in the calculation.

### Energy Use Summary by End Use

This section summarizes energy use and cost by fuel type for the proposed and baseline building.  The Performance Cost Index (PCI) is also calculated.  The PCI including solar is then compared to the $PCI_t$, and the building complies if the PCI does not exceed the $PCI_t$.

# Performance Rating Report

| | | |
|---|---|---|
| Project Name: | | |
| Project Address: | | Date: |
| Designer of Record: | Email: | Telephone: |
| Contact Person: | Email: | Telephone: |
| City: | | |
| Principal heating source: ☐ Fossil fuel  ☐ Fossil/electric hybrid and purchased heat  ☐ Electricity  ☐ Other | | |

### Space Summary

| Building Use | Conditioned Area (ft² or m²) | Unconditioned Area (ft² or m²) | Total Area (ft² or m²) | BPF (Table 4.2.1.1) |
|---|---|---|---|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Total/Total Area Weighted BPF | | | | |

### Advisory Messages

| | Proposed Building Design | Baseline Building | Difference Proposed – Baseline |
|---|---|---|---|
| Number of hours heating loads not met (system/plant) | | | |
| Number of hours cooling loads not met (system/plant) | | | |
| Number of warnings | | | |
| Number of errors | | | |
| Number of defaults overridden | | | |

### Simulation General

| | Proposed Building Design | Baseline Building | Baseline same as Proposed? |
|---|---|---|---|
| Simulation program | | | |
| Weather data | | | |
| Utility rates | | | |

### Performance Rating Result

The proposed and baseline buildings comply with all applicable mandatory requirements and the requirements of the Performance Rating Method of ANSI/ASHRAE/IES Standard 90.1–2016.

Individual certifying authenticity of the data provided in this analysis:

| Signature | Title |
|---|---|
| | |

# Performance Rating Report

| Project Name: | | |
|---|---|---|
| Contact Person: | Email: | Telephone: |

## Energy and Cost Summary by Fuel Type*

| Regulated Energy | Energy Type | Proposed Building | | Baseline Building | |
|---|---|---|---|---|---|
| | | Energy ($10^6$ Btu/yr or MJ/yr) | Energy Cost ($/yr) | Energy ($10^6$ Btu/yr or MJ/yr) | Energy Cost ($/yr) |
| Lighting | | | | | |
| Space heating | | | | | |
| Space cooling | | | | | |
| Fans | | | | | |
| Pumps | | | | | |
| Heat rejection | | | | | |
| Service water heating | | | | | |
| Refrigeration | | | | | |
| Elevators and escalators | | | | | |
| Motors | | | | | |
| Transformers | | | | | |
| Other regulated loads | | | | | |
| **Total Regulated Electric Energy** | | | | | |
| **Total Regulated Gas Energy** | | | | | |
| **Total Regulated Energy** | | | | | |
| | | | | | |
| **Unregulated Energy** | | | | | |
| Office equipment | | | | | |
| Other computers/servers | | | | | |
| Cooking (commercial) | | | | | |
| Other unregulated loads | | | | | |
| **Total Unregulated Electric Energy** | | | | | |
| **Total Unregulated Gas Energy** | | | | | |
| **Total Unregulated Energy** | | | | | |
| **Total Energy** | | | | | |

## Performance Cost Index Target

| Variable | Description | Value | Source |
|---|---|---|---|
| BBUEC | Baseline Building Unregulated Energy Cost ($) | | Energy and Cost Summary by Fuel Type Table |
| BBREC | Baseline Building Regulated Energy Cost ($) | | Energy and Cost Summary by Fuel Type Table |
| BBP | Baseline Building Performance (Energy Cost) ($) | | Energy and Cost Summary by Fuel Type Table |
| BPF | Total Area Weighted Building Performance Factor | | Space Summary Table |
| $PCI_t$ | Performance Cost Index Target | | $[BBUEC + (BBREC \times BPF)]/BBP$ |

### Energy Summary by End Use*

| | Proposed Building | | Baseline Building | | Performance Cost Index (PCI) |
|---|---|---|---|---|---|
| | Energy Use (10⁶ Btu/yr or MJ/yr) | Energy Cost ($/yr) | Energy Use (10⁶ Btu/yr or MJ/yr) | Energy Cost ($/yr) | Proposed Energy Cost / Baseline Energy Cost |
| Electricity | | | | | |
| Natural gas | | | | | |
| Other fossil fuel | | | | | |
| District steam/hot water | | | | | |
| District chilled water | | | | | |
| **Total nonsolar** | | | | | |
| Solar or site recovered | | | | | |
| **Total including solar** | | | | | |
| 'Total including solar' PCI less than or equal to PCI$_t$? (Yes/No) | | | | | |

* These results use assumptions for showing compliance during a typical year; actual energy costs may be substantially different.