



 **Progress Energy**

PREQUALIFIED CONTRACTOR

# Site Audit Report

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Created for:

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123 Address Street

City, ST 12345

# Definitions

## Evaporating Temperature (ET)

is the saturation temperature of the refrigerant as it boils in the evaporator.

## Condensing Temperature (CT)

is the saturation temperature of the refrigerant as it condenses in the condenser.

## Condensing Temperature over Ambient (COA)

is the difference between the condensing temperature (CT) and the outdoor air temperature (AMB).

## Condensing Over Water Temperature (COW)

is the difference between the condensing temperature (CT) and the entering water temperature (EWT) in water cooled units.

## Superheat (SH)

is the difference between the suction line temperature (ST) and the evaporating temperature (ET).

## Subcooling (SC)

is the difference between the condensing temperature (CT) and the liquid temperature (LT).

## Efficiency Index (EI)

is an estimate of an air conditioner's efficiency as a percentage of what its efficiency could be (while running under the same driving conditions) if it was serviced to operate like new. EI can be used to directly estimate the impact of poorly performing air conditioners on utility bills.

## Capacity Index (CI)

is an estimate of an air conditioner's total capacity as a percentage of what its capacity could be (while running under the same driving conditions) if it was serviced to operate like new.

## Savings

is the estimated annual energy savings (\$/yr) that could be achieved for a unit if the performance was improved through service or repair, bringing the EI and CI measurements back to or near 100%.

# Summary Report

The following report summarizes the data for all the units. For each unit the most recent test data collected is displayed by stage.

| Unit | Date    | Diagnosis   | Circuit | EI (%) | CI (%) | Savings (\$) |
|------|---------|---|---------|--------|--------|--------------|
| A    | 4/20/11 | DANGER: Add charge. It is not recommended to reduce the SH to less than 5F. | 1       | 91     | 76     | \$164        |

**TOTAL POTENTIAL SAVINGS = \$164**