

ACME TRANSFORMER AUDIT FORM

LOCATION: _____

Step 1: Identify all transformers that are a candidate for upgrade:

KVA: _____

VOLTAGE IN: _____ VOLTAGE OUT: _____

Year of Manufacture: _____ (all transformers manufactured prior to Jan. 2007 did not meet federal efficiency standard)

Step 2: Perform measurement on transformer to determine percent loading, existing efficiency, power factor, and K rating of loads connected.

(this can be done over a 24 hour period or a 7 day period)

Using digital meter measure input KW and output KW to determine efficiency

(Output KW/Input KW = % efficiency): _____

% Load (operating hours): _____

% Load (outside operating hours): _____

Power Factor (at transformer output): _____

K rating (indicates how much non linear loading is on the transformer): _____

Step 3: Input % Load during normal operating and outside operating hours in Energy Savings Calculator. Input days/year equipment operating per year.

Step 4: Input kWh rate, peak demand charge from utility, load power factor, and efficiency of cooling system into Energy Savings calculator. (Input 0 into calculator to negate reduction of cooling needed for new higher efficiency transformers).

Step 5: Input Existing Transformer efficiency into Energy Savings calculator.

Step 6: Input C3 Efficiency into Energy Savings Calculator.

(15 KVA: 97.9%, 30 KVA: 98.3%, 45 KVA: 98.4%, 75 KVA: 98.6%, 112.5 KVA: 98.7%,
150 KVA: 98.8%, 225 KVA: 99.0%, 300 KVA: 99.0%, 500 KVA 99.1%)

Step 7: Input Cost of Acme C3 Transformers into calculator to determine return on investment, and 30 Year Total Savings.

[Fax or Email Check list to Fax # 717-233-1626 or email address: pshort@sydist.com]