BUILDING TECHNOLOGIES PROGRAM





Energy Conservation Program for Consumer Products and Commercial and Industrial Equipment

AHRI Annual Meeting
CCE Overview and Update
April 13, 2011

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Basic Model Explanation



- Is manufactured by a single manufacturer, although it may be distributed under different brand names.
- Is made up of models that contain the same primary energy source (i.e., electric, gas).

A Basic Model

- Is made up of models that have essentially identical electrical, physical and functional characteristics that affect energy consumption and/or efficiency.
- May not contain models from multiple product classes.
- Can be made up of only one model. There is no requirement for multiple models within a basic model.

How To Get Certified Ratings



Test At Least Two Units of a Basic Model Using the DOE Test Procedure (Maximum Number of Units is at the Discretion of the Manufacturer)

Determine which Federal Conservation Standards Apply to the Product

Consumer products: 430.32 Commercial equipment: 431

Calculate the Product Specific Certification Statistics, 429.14 to 429.54

Consumer 430.32, Commercial 431

Sample Mean (x)

Upper Confidence Limit (UCL)

Lower Confidence Limit (LCL)

Determine Minimum and Maximum Rating Values

Compare Mean and UCL or LCL to Consumption or Efficiency Standard Per Regulations

Generate Certified Rating Between Minimum and Maximum Values

AEDM/ARM Requirements



Alternate Efficiency Determination Methods (AEDMs) Commercial HVAC and WH Equipment

- Substantiation: Must be validated by testing a specified number of units and comparing test results against values derived from the proposed AFDM.
- Verification: Must be verified against a different subset of basic models.
- Manufacturer must be able to provide DOE with information necessary to verify AEDM performance upon request.
- 429.70.

Alternative Rating Methods (ARM)

Split System Central Air Conditioners and Heat Pumps

- Substantiation: Must be validated with test data from four different indoor units and at least two different outdoor units that meet additional specifications.
- Verification: Must be reviewed and approved by DOE before use by the manufacturer.
- 429.70.

Certification Requirements



- Effective date for compliance with certification provisions is July 5, 2011, for any model not previously certified with DOE.
- Only electronic submission accepted. Submit online at https://www.regulations.doe.gov/ccms.
- Use product-specific, Excel templates provided by DOE.
- Submit certification report before distribution in commerce for all new models.
- Annual submittal of carry-over products on or before the 1st of the month specified in the annual certification table (429.12(d)).
- No additional certification testing required for annual submission.
- Recertify if the redesign of an existing model increases energy consumption or decreases energy efficiency resulting in re-rating.

Enforcement Overview



DOE Office of the General Counsel, Office of Enforcement	Enforces the energy conservation, water conservation, and design standards.
Certification	 Seeking civil penalties for failure to certify and improper certification. Certification must be based on testing in accordance with the applicable test procedure and sampling plan or a valid AEDM/ARM.
Standards	 Seeking civil penalties for distribution of products that do not meet Federal standards. Testing products suspected of failing to meet Federal standards.

Enforcement Tools



Civil Penalty Subpoena	 Failure to meet applicable efficiency standards and certification violations. Penalties for violations of standards calculated per unit offered for distribution in commerce. Penalties for certification violations calculated per day for each basic model improperly certified or not certified. DOE has issued guidance on the imposition of civil penalties. DOE issues a subpoena in order to obtain test data and to obtain information regarding distribution of regulated products.
Noncompliance Determination	DOE makes a determination of noncompliance based on certification information, on test data provided by a manufacturer, or on test data obtained through DOE testing.
Injunction	DOE may seek a court order to ensure compliance with any regulatory requirement.

New Initiatives



Request for Information on Alternative Methods of Determining Efficiency Issued April 8, 2011

DOE seeks comment and data:

- Current procedures used by industry to rate lowvolume, custom built commercial equipment;
- Current applications of DOE's AEDM/ARM procedures;
- Products to which AEDM/ARM should apply;
- Data to demonstrate ability of AEDM/ARM to estimate energy efficiency/consumption; and
- Procedures governing substantiation and verification of AEDMs and ARMs.

New Initiatives



Notice of Proposed
Rulemaking on the
Compliance Date for
Certification
Provisions Applicable
to Certain Types of
Commercial
Equipment Issued
April 12, 2011

DOE seeks comment and data:

- Proposed a tentative 18-month compliance date extension for the certification provisions for commercial refrigeration equipment; commercial heating, ventilating, air-conditioning (HVAC) equipment; commercial water-heating equipment; walk-in coolers; walk-in freezers; and automatic commercial ice-making equipment;
- Considering extending the compliance date for other commercial equipment based on comments and data; and
- Considering longer/shorter date extension based on comments and data.

Questions / Information



Submit a Question:	 DOE Test Procedure Website: http://www1.eere.energy.gov/guidance/default.aspx?pid=2&spid=1 Ashley Armstrong: Ashley.Armstrong@EE.Doe.Gov
Request a Test Procedure Waiver:	 DOE's regulations allow manufacturers to apply for a waiver when a manufacturer determines that a given basic model contains one or more design features that prevent testing in accordance with DOE's test procedure. Email: AS_Waiver_Requests@ee.doe.gov
File a Complaint:	Email: energyefficiencyenforcement@hq.doe.gov. The Office of Enforcement will protect the identity of complainants to the maximum extent permitted by law.
DOE's Certification, Compliance, and Enforcement Website:	http://www1.eere.energy.gov/buildings/appliance_standards/certification_enforcement.html
DOE's Online Certification System:	https://www.regulations.doe.gov/ccms/
Enforcement Information:	http://gc.doe.gov/energy_efficiency_enforcement.htm