

## Department of Energy

## § 431.86

### TEST PROCEDURES

#### § 431.85 Materials incorporated by reference.

(a) The Department incorporates by reference the following test procedures into subpart E of part 431. The Director of the Federal Register has approved the material listed in paragraph (b) of this section for incorporation by reference in accordance with 5 U.S.C. 552(a) and 1 CFR part 51. Any subsequent amendment to this material by the standard-setting organization will not affect the DOE test procedures unless and until DOE amends its test procedures. The Department incorporates the material as it exists on the date of the approval and a notice of any change in the material will be published in the FEDERAL REGISTER.

(b) *List of test procedures incorporated by reference.* (1) The Hydronics Institute (HI) of GAMA Boiler Testing Standard BTS-2000, "Method to Determine Efficiency of Commercial Space Heating Boilers," published January 2001 (HI BTS-2000), IBR approved for § 431.86.

(2) The American Society of Mechanical Engineers Power Test Codes for Steam Generating Units, ASME PTC 4.1-1964, Reaffirmed 1991 (Including 1968 and 1969 Addenda) ("ASME PTC 4.1"), IBR approved for § 431.86.

(c) *Availability of references.* (1) *Inspection of test procedures.* The test procedures incorporated by reference are available for inspection at:

(i) National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: [http://www.archives.gov/federal\\_register/code\\_of\\_federal\\_regulations/ibr\\_locations.html](http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html).

(ii) U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy, Hearings and Dockets, "Test Procedures and Efficiency Standards for Commercial Packaged Boilers," Docket No. EE-RM/TP-99-470, 1000 Independence Avenue, SW., Washington, DC 20585.

(2) *Obtaining copies of Standards.* Anyone can purchase a copy of HI BTS-2000 from the Hydronics Institute Division of GAMA, P.O. Box 218, Berkeley

Heights, NJ 07922, or <http://www.gamanet.org/publist/hydroordr.htm>; and a copy of ASME PTC 4.1-1964/RA-1991 from Global Engineering Documents, 15 Inverness Way East, Englewood, CO 80112, 800-854-7179.

#### § 431.86 Uniform test method for the measurement of energy efficiency of commercial packaged boilers.

(a) *Scope.* This section provides test procedures that must be followed for measuring, pursuant to EPCA, the steady state combustion efficiency of a gas-fired or oil-fired commercial packaged boiler. These test procedures apply to packaged low pressure boilers that have rated input capacities of 300,000 Btu/hr or more and are "commercial packaged boilers, but do not apply under EPCA to "packaged high pressure boilers."

(b) *Definitions.* For purposes of this section, the Department incorporates by reference the definitions specified in Section 3.0 of the HI BTS-2000 (Incorporated by reference, see § 431.85), with the exception of the definition for the terms "packaged boiler", "condensing boilers", and "packaged low pressure steam" and "hot water boiler".

(c) *Test Method for Commercial Packaged Boilers—General.* After October 23, 2006, follow the provisions in this paragraph (c) for all testing of packaged low pressure boilers that are commercial packaged boilers. Prior to that date, follow either the provisions of this paragraph (c) or of paragraph (d) of this section to test steel boilers, but follow the provisions of this paragraph for all other commercial packaged boilers.

(1) *Test Setup.* (i) *Classifications:* If employing boiler classification, you must classify boilers as given in Section 4.0 of the HI BTS-2000 (Incorporated by reference, see § 431.85).

(ii) *Requirements:* Conduct the combustion efficiency test as given in Section 5.2 (Combustion Efficiency Test) of the HI BTS-2000 (Incorporated by reference, see § 431.85).

(iii) *Instruments and Apparatus:*

(A) Follow the requirements for instruments and apparatus in sections 6 (Instruments) and 7 (Apparatus), of the HI BTS-2000 (Incorporated by reference, see § 431.85), with the exception