(2) The report under paragraph (c)(1) of this section is not required with regard to the following types of Group 1, Phase I units:
   (i) Units employing no new NO\textsubscript{X} emission control system after November 15, 1990;
   (ii) Units employing modifications to boiler operating parameters (e.g., burners out of service or fuel switching) without low NO\textsubscript{X} burners or other emission reduction equipment for reducing NO\textsubscript{X} emissions;
   (iii) Units with wall-fired boilers employing only overfire air and units with tangentially fired boilers employing only separated overfire air; or
   (iv) Units beginning installation of a new NO\textsubscript{X} emission control system after August 11, 1995.

(3) The report under paragraph (c)(1) of this section shall be submitted to the Administrator by:
   (i) 120 days after completion of the low NO\textsubscript{X} burner technology retrofit project; or
   (ii) May 23, 1995, if the project was completed on or before January 23, 1995.

§ 76.15 Test methods and procedures.

(a) The owner or operator may use the following tests as a basis for the report required by §76.10(e)(7):

   (1) Conduct an ultimate analysis of coal using ASTM D 3176–89 (incorporated by reference as specified in §76.4);
   (2) Conduct a proximate analysis of coal using ASTM D 3172–89 (incorporated by reference as specified in §76.4);

(b) The owner or operator may measure and record the actual NO\textsubscript{X} emission rate in accordance with the requirements of this paragraph while varying the following parameters where possible to determine their effects on the emissions of NO\textsubscript{X} from the affected boiler:

   (1) Excess air levels;
   (2) Settings of burners or coal and air nozzles, including tilt and yaw, or swirl;
   (3) For tangentially fired boilers, distribution of combustion air within the NO\textsubscript{X} emission control system;
   (4) Coal mass flow rates to each individual burner;
   (5) Coal-to-primary air ratio (based on pound per hour) for each burner, the average coal-to-primary air ratio for all burners, and the deviations of individual burners’ coal-to-primary air ratios from the average value; and
   (6) If the boiler uses varying types of coal, the type of coal. Provide the results of proximate and ultimate analyses of each type of as-fired coal.

(c) In performing the tests specified in paragraph (a) of this section, the owner or operator shall begin the tests using the equipment settings for which the NO\textsubscript{X} emission control system was designed to meet the NO\textsubscript{X} emission rate guaranteed by the primary NO\textsubscript{X} emission control system vendor. These results constitute the “baseline controlled” condition.

(d) After establishing the baseline controlled condition under paragraph (c) of this section, the owner or operator may:

   (1) Change excess air levels ±5 percent from the baseline controlled condition to determine the effects on emissions of NO\textsubscript{X}, by providing a minimum of three readings (e.g., with a baseline reading of 20 percent excess air, excess air levels will be changed to 19 percent and 21 percent);
   (2) For tangentially fired boilers, change the distribution of combustion air within the NO\textsubscript{X} emission control system to determine the effects on NO\textsubscript{X} emissions by providing a minimum of three readings, one with the minimum, one with the baseline, and one with the maximum amounts of staged combustion air; and
   (3) Show that the combustion process within the boiler is optimized (e.g., that the burners are balanced).