5.0 APPENDIX E METHODOLOGY FOR GAS-FIRED AND OIL-FIRED PEAKING UNITS

If a unit is in the Acid Rain Program or CAIR NOx Program(s), and it meets the definition of a "peaking unit" in §72.2, and if it also qualifies as oil-fired or gas-fired (see Section 4.1, above), then the alternative methodology in Appendix E of Part 75 may be used to monitor the NOx emission rate, in lieu of installing CEMS. For a qualifying Appendix E unit:

• The Appendix D methodology must be used to measure the hourly unit heat input rate (see Section 4.6, above); and

• Emission testing must be conducted at four different loads to develop a correlation curve of NOx emission rate versus heat input rate.

The Appendix E methodology for gas-fired and oil-fired peaking units pertains only to the monitoring of NO_x emission rate. To use this methodology, a correlation curve of NO_x emission rate vs heat input rate is first derived from emission testing and programmed into the DAHS. Then, the hourly unit heat input rate is measured using the Appendix D methodology, and the DAHS automatically determines the hourly NO_x emission rate from the correlation curve.