

**Attachment 7**  
**Protocol for Piloting Continuous Emissions  
Monitoring System**

As required by this Consent Decree, Nucor will install a continuous emissions monitoring system (CEMS) at each of its steel production facilities. Nucor has agreed to install CEMS as a supplemental environmental project and as part of its Clean Air Act Compliance Program. The first CEMS installation will be at Nucor's facility located in Norfolk, Nebraska. This protocol presents Nucor's proposed approach for the CEMS installation at Norfolk. Any provisions of this protocol, including schedule, may be modified by the written agreement of the United States and Nucor at any time.

**A. Norfolk System Design and Operation**

Nucor will undertake a pilot study of a continuous emissions monitoring system for significant and appropriate emission parameters, to include Nitrogen Oxides (NOx), Carbon Monoxide (CO), Sulfur Oxides (SOx), Oxygen (O2), and velocity at the Norfolk electric arc furnace (EAF). The CEMS will be designed to meet the performance specifications included in Appendix B of 40 CFR 60. The system will be operated in accordance with the quality assurance and quality control specifications presented in Appendix F of 40 CFR 60.

**B. Report to EPA**

Following installation and operation of the CEMS at the Norfolk facility, Nucor will prepare and submit to EPA a report summarizing the issues encountered in designing, installing and operating the CEMS. The report will include a discussion of the Norfolk CEMS design, the cost of installing and operating the CEMS, and problems encountered in installing and operating the CEMS. The report will also include a proposed approach for designing and installing CEMS for the remaining Nucor steel mills. Because of differences in EAF designs, ductwork configurations, and baghouse designs, each CEMS installation is expected to be unique to a given facility. The report will also include a schedule for installation of CEMS at the remaining mills.

**C. Schedule**

Table 1 presents the schedule for the Norfolk facility.

**TABLE 1. SCHEDULE FOR CEMS INSTALLATION AT NORFOLK**

<b>Activity</b>	<b>Projected Date</b>
Complete preliminary design of CEMS	April 15, 2001
CEMS Installation Complete	August 30, 2001
CEMS Troubleshooting and Optimization	March 15, 2002
Report to EPA	May 1, 2002