

used for this test procedure shall consist of the following:

- i) High Volume Air Samplers with 0.3 micron glass fiber filters shall be used for the determination of cast house particulate emission concentrations.
- ii) Velocity measurements shall be determined by the use of a suitable instrument designed for the accurate determination of velocities within the range encountered during the sampling duration.
- iii) Temperature measurements shall be determined by the use of a suitable instrument designed for the accurate determination of temperature within the range encountered during the sampling duration.

C) Test Procedure.

- i) Sampling Time Duration: Sampling and opacity observations will initiate with the opening of the tap hole and terminate with the plugging of the tap hole.
- ii) Opacity Observations: Opacity observations of the cast house roof monitor particulate emissions into the atmosphere shall be performed during the test runs by use of the USEPA Method 9 Procedure (40 CFR 60, Appendix A, Method 9, 42 Fed. Reg. 41754 (August 18, 1977)).
- iii) Number of Test Runs: The average of six complete sampling runs during normal operating conditions will be the minimum required to determine compliance with this subsection (a).
- iv) Sampled Emission: During the test period, particulate emissions from the casting operation shall be directed into the cast house to the extent feasible and shall not create an unsafe or hazardous condition. Those emissions in and/or directed to the cast house shall be allowed to escape only at sampling area locations. Compliance with this requirement shall be determined by an agency-certified observer, and any significant visible emission from the cast house

any place other than a sampling location will invalidate the test.

- v) Sampler Locations: Samplers shall be located as close as practicable to the discharge point of the cast house emissions to the atmosphere and shall be oriented in the direction of the air flow. The sampler grid pattern shall be divided up such that the cross sectional area per sampler shall not exceed 9.29 square meters (100 square feet). If necessary to insure representative samples, the Agency may specify an area of less than 9.29 square meters (100 square feet). Each sampler shall be located at the approximate center of each sampling area. The concentration of particulate matter as determined by each sampler shall be considered as the concentration for each respective area.
- vi) Velocity Measurement Locations: Velocity measurements shall be made as close as possible to each sampling point location without interfering with the measurement. The average velocity measured at each sampling point for the entire sample run shall be used as the average velocity for each entire sampler area respectively.
- vii) Temperature Measurement Locations: The same as velocity measurement locations.
- viii) Emission Exhaust Pressure Measurements: This pressure shall be considered the barometric pressure as measured at the cast house floor.
- ix) Recording of Operating Parameters: The following information shall be recorded for those casts tested: material charge weights to the blast furnace for the operating turn during which cast house tests are performed; cast weights, total weight of iron plus slag entering the cast house during each casting operation sampled; all information contained in blast furnace casting logs or other similar