



Development Document for Final Effluent Limitations Guidelines and Standards for the Iron and Steel Manufacturing Point Source Category

April 2002

U.S. Environmental Protection Agency
Office of Water (4303T)
1200 Pennsylvania Avenue, NW
Washington, DC 20460

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Standards for the Iron and Steel
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SECTION 12

REGULATED POLLUTANTS

This section describes the selection of pollutants being regulated by the revised effluent limitations guidelines and standards for current Subpart A (cokemaking) and Subpart B (sintering), and the newly promulgated effluent limitations guidelines and standards for new Subpart M (other operations). Regulated pollutants are pollutants for which EPA establishes numerical effluent limitations and standards. EPA selected pollutants for regulation based on the following factors: applicable Clean Water Act provisions regarding the pollutants subject to each statutory level; the pollutants of concern (POCs) identified for each subcategory and segment; and cotreatment of compatible wastewater from different manufacturing operations. This section describes the methodology and rationale EPA used to select the subset of regulated pollutant parameters from the list of pollutants of concern.

12.1 Regulated Pollutant Selection Methodology for Direct Dischargers

The list of POCs for each subcategory represents those pollutants that are present at treatable concentrations in a significant percentage of untreated wastewater samples from that subcategory; the selection of POCs for each subcategory is presented in Section 7 of this document. Effluent monitoring for all POCs is not necessary to ensure that iron and steel wastewater pollution is adequately controlled, since many of the pollutants originate from similar sources, have similar treatabilities, are removed by similar mechanisms, and are treated to similar concentrations. Therefore, it may be sufficient to monitor for one pollutant as a surrogate or indicator of several others.

From the POC list for each regulated subcategory, EPA selected a subset of pollutants for establishing numerical effluent limitations. EPA considered the following factors in selecting regulated pollutants from the list of POCs for each subcategory:

- The pollutant was detected in the untreated wastewater at the BAT facility/facilities at treatable levels in a significant number of samples. This was the same methodology applied in calculating long-term averages (LTAs) and is discussed in Section 14.
- The pollutant is not used as a treatment chemical in the selected treatment technology option. EPA excluded all pollutants that may serve as treatment chemicals: aluminum, boron, fluoride, iron, magnesium, manganese, and sulfate (several other pollutants are commonly used as treatment chemicals but were already excluded as POCs). EPA eliminated these pollutants because regulation of these pollutants could interfere with their beneficial use as wastewater treatment additives.
- The pollutant is not considered a nonconventional bulk parameter. EPA excluded many nonconventional bulk parameters, such as chemical

