

**Environmental Protection Agency**

**§ 420.01**

420.137 Effluent limitations guidelines representing the degree of effluent reduction attainable by the application of the best control technology for conventional pollutants (BCT).

AUTHORITY: 33 U.S.C. 1311, 1314, 1316, 1317, 1318, 1342, and 1361.

SOURCE: 47 FR 23284, May 27, 1982, unless otherwise noted.

**GENERAL PROVISIONS**

**§ 420.01 Applicability.**

(a) The provisions of this part apply to discharges and to the introduction of pollutants into a publicly owned treatment works resulting from production operations in the Iron and Steel Point Source Category.

(b) *Central Treatment Facilities.* (1) The following central treatment facilities presently discharging through the specified outfall are temporarily excluded from the provisions of this part, *provided*, the owner or operator of the facility requests the Agency to consider establishing alternative effluent limitations and provides the Agency with the information set out in paragraph (b)(2) of this section, on or before July 26, 1982.

Plant	NPDES permit No.	Central treatment facility
1. Armco Steel, Ashland, KY.	KY 0000485 ...	Total Plant.
2. Bethlehem Steel, Sparrows Point, MD.	MD 0001201 ..	Humphrey's Creek Outfall 014.
3. Bethlehem Steel, Burns Harbor, IN.	IN 0000175 ....	Total Plant.
4. Ford Motor Co., Dearborn, MI.	MI 0003361 ...	Schaefer Road Treatment Plant.
5. Interlake, Inc., <sup>1</sup> Riverdale, IL.	IL 0002119 ....	Discharge to POTW.
6. J&L Steel, Aliquippa, PA.	PA 0006131 ...	Chemical Rinse Treatment Plant Outfall 018.
7. J&L Steel, Cleveland, OH.	OH 0000850 ..	Hot Forming and Finishing Treatment Plant.
8. J&L Steel, Hennepin, IL.	IL 0002631 ....	Total Plant.
9. J&L Steel, Louisville, OH.	OH 0007188 ..	Total Plant.
10. J&L Steel, East Chicago, IN.	IN 0000205 ....	Terminal Treatment Plant.
11. Laclede Steel, Alton, IL.	IL 0000612 ....	Total Plant.
12. National Steel, Granite City, IL.	IL 0000329 ....	Total Plant.
13. National Steel, Portage, IN.	IN 0000337 ....	Total Plant.
14. National Steel, Weirton, WV.	WV 0003336 ..	Outfall B.
15. Republic Steel, Gadsden, AL.	AL 0003522 ...	Total Plant.

Plant	NPDES permit No.	Central treatment facility
16. Republic Steel, <sup>1</sup> Chicago, IL 0002593.	IL 0002593 ...	Discharge to POTW.
17. U.S. Steel, Lorain, OH.	OH 0001562 ..	Pipe Mill Lagoon.
18. U.S. Steel, Provo, UT.	UT 0000361 ...	Total Plant.
19. U.S. Steel, Fairless Hills, PA.	PA 0013463 ...	Terminal Treatment Plant.
20. U.S. Steel, Gary, IN.	IN 0000281 ....	Terminal Lagoons.
21. U.S. Steel, <sup>1</sup> Chicago, IL.	IL 0002691 ....	Discharge to POTW.

<sup>1</sup> The request for alternative effluent limitations for these plants are for indirect discharges to POTWs

(2) The information to be submitted with the request for consideration of alternative effluent limitations is to include:

(i) A schematic diagram of the existing wastewater treatment facility showing each source of wastewater, cooling water, and other waters entering the treatment facility; discharge and recycle flow rates for each water source and each major treatment component;

(ii) Existing monitoring data relating to discharges to and from the central treatment facility including pollutant concentrations, flows and mass loadings; As a minimum, monitoring data should be provided for a six month period of normal operation of the production and treatment facilities. The complete data as well as a data summary including the maximum, minimum, and mean gross discharge loadings and the standard deviation of the discharge loadings for each monitored pollutant should be provided. Any supplemental monitoring data for toxic pollutants should also be provided.

(iii) A scale map of the area of the plant served by the wastewater treatment facility, including the treatment facility and water supply and discharge points;

(iv) An estimate of the least costly investment required to meet the generally applicable limitations or standards for the facility and a description of such treatment system including schematic diagrams showing the major treatment system components and flow rates through the system. As a minimum, the cost estimates should be comprised of a single page summary for each water pollution control system

showing estimated installed direct cost totals for mechanical equipment; piping and instrumentation; foundations and structural components; and, electrical components. Indirect costs for contingencies, overhead and profit, engineering fees, and any other indirect costs must be itemized separately. The sum of the direct and indirect costs which represents the owner's or operator's total estimate, must be shown.

(v) The effluent limitations or standards which could be achieved if the discharger were to spend an amount equal to the Agency's model treatment system cost estimate for the facility and the treatment facilities which would be used to meet those limitations or standards. Schematic diagrams and cost estimates as outlined in paragraph (b)(2)(iv) of this section, should be provided for each treatment system; and,

(vi) Production rates in tons per day for each process contributing wastewater to the central treatment facility consistent with those reported by the owner or operator in the NPDES permit application for the central treatment facility.

(3) The request described in subsection (b)(1) of this section, must be based upon the owner's or operator's belief that the cost of bringing the specified central treatment facilities into compliance with the provisions of this part would require expenditures so high compared to the Agency's model treatment system cost estimate applicable to that facility that the applicable limitations or standards would not represent BPT, BAT, BCT, or PSES, as the case may be, for the facility.

[47 FR 23284, May 27, 1982, as amended at 47 FR 41739, Sept. 22, 1982]

#### § 420.02 General definitions.

In addition to the definitions set forth in 40 CFR part 401, the following definitions apply to this part:

(a) The term *TSS* (or total suspended solids, or total suspended residue) means the value obtained by the method specified in 40 CFR 136.3.

(b) The term *oil and grease* (or O&G) means the value obtained by the method specified in 40 CFR 136.3.

(c) The term *ammonia-N* (or ammonia-nitrogen) means the value obtained by manual distillation (at pH 9.5) fol-

lowed by the Nesslerization method specified in 40 CFR 136.3.

(d) The term *cyanide* means total cyanide and is determined by the method specified in 40 CFR 136.3.

(e) The term *phenols 4AAP* (or phenolic compounds) means the value obtained by the method specified in 40 CFR 136.3.

(f) The term *TRC* (or total residual chlorine) means the value obtained by the iodometric titration with an amperometric endpoint method specified in 40 CFR 136.3.

(g) The term *chromium* means total chromium and is determined by the method specified in 40 CFR 136.3.

(h) The term *hexavalent chromium* (or chromium VI) means the value obtained by the method specified in 40 CFR 136.3.

(i) The term *copper* means total copper and is determined by the method specified in 40 CFR 136.3.

(j) The term *lead* means total lead and is determined by the method specified in 40 CFR 136.3.

(k) The term *nickel* means total nickel and is determined by the method specified in 40 CFR 136.3.

(l) The term *zinc* means total zinc and is determined by the method specified in 40 CFR 136.3.

(m) The term *benzene* (or priority pollutant No. 4) means the value obtained by the standard method Number 602 specified in 44 FR 69464, 69570 (December 3, 1979).

(n) The term *benzo(a)pyrene* (or priority pollutant No. 73) means the value obtained by the standard method Number 610 specified in 44 FR 69464, 69570 (December 3, 1979).

(o) The term *naphthalene* (or priority pollutant No. 55) means the value obtained by the standard method Number 610 specified in 44 FR 69464, 69571 (December 3, 1979).

(p) The term *tetrachloroethylene* (or priority pollutant No. 85) means the value obtained by the standard method Number 610 specified in 44 FR 69464, 69571 (December 3, 1979).

(q) The term *pH* means the value obtained by the standard method specified in 40 CFR 136.3.

(r) The term *non-process wastewaters* means utility wastewaters (for example, water treatment residuals, boiler