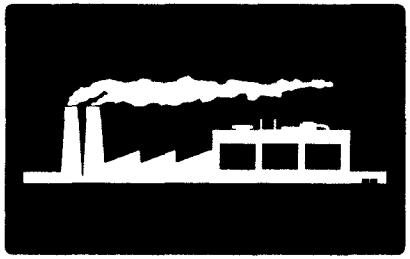
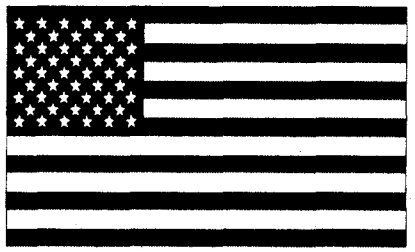
Iron and Steel Project Update





Stakeholders Meeting
Chicago, IL

January 27, 1999

Outline

- Project Personnel
- Industry Profile
- Existing Regulation
- Preliminary Study
- Schedule
- Site Visits/Sampling
- Industry Outreach
- Next Steps

Iron and Steel Team - EPA

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- Helen Jacobs, Statistician
- Kathy Zirbser, Environmental Assessment
- Carol Ann Siciliano, Attorney

Iron and Steel Team - Contractor Support

- Prime Contractor
  - Eastern Research Group
  - Brian King, ERG Project Manager
- Subcontractors
  - Amendola Engineering
  - Geologics Corp.
  - Hatch Associates
  - DynCorp

Industry Profile

- 900 Iron and Steel facilities in the United States today
- 102 million tons of steel produced in 1998; down from 105 million tons in 1997 (First decline after six straight years of growth)
- Steel industry made a profit in 1996, for the 4th straight year
- Labor productivity increased dramatically:
  - 1982: 10.1 man-hours per finished ton (MHFT) (289,000 employees)
  - 1996: 3.9 MHFT (<170,000 employees)
- Price for steel produced in US (adjusted for inflation) decreased by 30% since 1984

Existing Regulation

- 40 CFR Part 420

  - Promulgated May 27, 1982 (47 FR 23258)

  - Ammended May 17, 1984 (49 FR 21024)

Existing Regulation (Cont.)

Subpart A	Cokemaking
Subpart B	Sintering
Subpart C	Ironmaking
Subpart D	Steelmaking
Subpart E	Vacuum Degassing
Subpart F	Continuous Casting
Subpart G	Hot Forming
Subpart H	Salt Bath Descaling
Subpart I	Acid Pickling
Subpart J	Cold Forming
Subpart K	Alkaline Cleaning
Subpart L	Hot Coating

Existing Regulation (Cont.)

CONVENTIONALS	NONCONVENTIONALS	PRIORITY/TOXICS
TOTAL SUSPENDED SOLIDS	AMMONIA-N	TOTAL CYANIDE
		TOTAL CHROMIUM
OIL & GREASE	PHENOLS (4AAP)	HEXAVALENT CHROMIUM
		TOTAL LEAD
	NICKEL	TOTAL NICKEL
		TOTAL ZINC
pH		BENZENE
		BENZO(A)PYRENE
	ZINC	NAPHTHALENE
		TETRACHLOROETHYLENE

Preliminary Study

- Clean Water Act Section 304(m) - Statutory Authority

- Preliminary Study of the Iron and Steel Category (EPA 821-R-95-037, September 1995)

- Findings
  - Industry has changed significantly: manufacturing processes; improved pollution prevention techniques; wastewater conservation; and in-plant and end-of-pipe treatment and controls

  - Some parameters found in wastewater are currently unregulated (thiocyanates, arsenic, cadmium)

  - Subcategorization scheme may not adequately address mini-mills

Schedule

- Iron and Steel Project Selected by Bob Perciasepe: March 1995
- Iron and Steel Engineering Contract Awarded to Eastern Research Group: October 1996
- CWA 308 Surveys Mailed Oct - Nov 1998
  - Due Feb - Apr 1999
- Proposal: October 2000
- Final: April 2002

Site Visits/Sampling

- 58 Site visits so far
- 11 Sampling episodes so far

Industry Outreach

- 9 Trade Associations representing all manufacturing operations
  - Status meetings
  - Advance copies of surveys / ICR
  - Help refining mailing list
  - Stakeholder meetings: Dec. 1-3, 1998; Jan. 27, 1999
  - Additional survey workshop(s) (budget permitting)

- Website
  - www.epa.gov/OST/ironsteel

Industry Outreach (Cont.)

EPA United States Environmental Protection Agency
Office of Water

IRON & STEEL

IRON & STEEL RULEMAKING PROCESS

- FACT SHEET
- CURRENT REGULATION
- PRELIMINARY STUDY
- FEDERAL REGISTER NOTICES
- INFORMATION COLLECTION REQUEST
- INDUSTRY SURVEYS
- AGENCY CONTACTS
- TRADE ASSOCIATIONS

[redacted]

OST HOME || EPA HOME || WATER HOME || COMMENTS || SEARCH

URL: http://www.epa.gov/OST/ironsteel/index.html
Revised: October 15, 1998

Next Steps

- Analyze Questionnaire Responses
- Send out Follow-up Cost, Analytical, and Production Questionnaires
- Continue to sample BAT candidate facilities
- Revise preliminary BAT options based on
  - Questionnaires
  - Sampling results
  - Feedback from stakeholders