

AIR AND WATER COMPLIANCE SUMMARY FOR THE IRON AND STEEL INDUSTRY



**U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF ENFORCEMENT
OCTOBER 20, 1977**

SUMMARY OF COMPLIANCE STATUS OF SIGNIFICANT SOURCES OF AIR
AND WATER POLLUTION IN THE U.S. IRON AND STEEL INDUSTRY

October 20, 1977

Office of Enforcement
U.S. Environmental Protection Agency
Washington, D.C. 20460

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I. INTRODUCTION

This report, covering the major integrated iron and steel facilities in the United States, contains information on each facility's compliance status with requirements of existing environmental laws. The Clean Air Act required that major sources of air pollution, such as steel mills, meet state-adopted emission limitations by mid-1975.

These emission limitations were to be stringent enough to assure attainment of national primary ambient air quality standards which were established to protect public health. The Federal Water Pollution Control Act required that by mid-1977 all industrial facilities discharging wastes into navigable waters, such as steel mills, limit such discharges through the installation of best practical waste water treatment technology.

The steel industry is one of the largest sources of air and water pollution in the nation, seriously affecting public health and imposing heavy costs on affected communities. Steel plants emit into the air large quantities of particulates, sulfur oxides, and various hydrocarbons. The air pollutants contribute to asthma, bronchitis, emphysema and cancer. Millions of people are exposed each day to carcinogenic coke oven emissions, including steel workers, their families, and others in the steel community. Twenty percent of all man made particulate pollution in the United States in 1975 came from the steel industry and every

geographic region containing a major steel plant is now in violation of the Clean Air Act's primary (health related) standards.

Steel plants discharge into the water solids, acids, heavy metals, arsenic, cyanide, phenols, ammonia, oil, grease and heat. These pollutants are dangerous to health and must be removed by expensive treatment facilities to protect the drinking water of downstream communities. Five of the ten dirtiest rivers named by EPA in 1972 had at least 28 steel mills discharging into them.

Facilities are listed in this report alphabetically by company. Data for each facility is found on three consecutive pages:

1st page - company and plant name, a list of process facilities located at this plant and, where available, information on the capacity and age of each process facility and the number of employees at each plant.

2nd page - compliance status information with regard to air pollution requirements (omitted if facility is not a major air pollution source).

3rd page - compliance status information with regard to water pollution requirements (omitted if facility is not a major water pollution source).

The definition of which iron and steel facilities represent "major" air or water pollution sources differ. Facilities are

designated major air pollution sources on the basis of a combination of the specific processes found at a facility and the seriousness of the pollution problems at the specific facility. Facilities are designated major water pollution sources if they have a process waste water discharge of more than 1 million gallons per day or have toxic chemical discharges. Some 550 processes at 53 separate iron and steel plants are included in this report as major air pollution sources. On the other hand, 124 iron and steel plants are included in this report as major water pollution sources.

Air pollution control compliance is given in this report on a process-by-process basis within each plant. Water pollution control compliance is reported on an overall plant basis since one treatment facility frequently controls several different processes. With respect to air pollution control at the over 550 identified major process facilities:

- 88 (16%) are in compliance
- 149 (27%) are in violation but on a compliance schedule
- 284 (52%) are in violation and not on a compliance schedule
- 5 (1%) are in violation of a compliance schedule
- The balance (4%) are either not federally regulated or are of unknown compliance status

With respect to water pollution control 67 (54%) of the 124 major plants are listed as being in non-compliance.

These breakdown as follows:

- 53 have not installed necessary
treatment facilities
- 4 have installed treatment facilities
but are violating effluent
limitations
- 10 have expired permits

The compliance status information is current as of October 19, 1977. Other data, specifically process age, facility employment level, and production capacity, are those available in EPA's files. Where no data is given, such data was unavailable to EPA as of the date of this report.

II. Abbreviations

AOL	-	Achieve Operational Levels
BF	-	Blast Furnace
BOF	-	Basic Oxygen Furnace
BPT	-	Best Practicable Control Technology
ECSL	-	Enforcement Compliance Schedule Letter
EAFF	-	Electric Arc Furnace
EPA/WP	-	U.S. Environmental Protection Agency Wheeling-Pittsburgh Steel Corporation
NOV	-	Notice of Violation
Q-BOP	-	Basic Oxygen Process-Q
SIP	-	State Implementation Plan
OH	-	Open Hearth Furnace
TPD	-	Tons per Day
USW	-	United Steel Workers
WQL	-	Water Quality Limited
WQS	-	Water Quality Standards

III. COMPLIANCE STATUS OF SIGNIFICANT SOURCES OF AIR
AND WATER POLLUTION IN THE U.S. IRON AND STEEL
INDUSTRY*

*The plants presented in this section are organized
alphabetically, first by company name, next by state,
and finally by plant name.

REGION: II

COMPANY: AL-TEC DIVISION OF ALLEGHENY LUDLUM INDUSTRIES, INC.
BAR PRODUCTS DIVISION

PLANT: DUNKIRK & WATERVLIET, PLANTS

LOCATION: DUNKIRK, & WATERVLIET, N.Y.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
STAINLESS & HEAT RESISTING STEELS, TOOL STEELS, ELECTRICAL STEEL, MAGNETIC ALLOY, VALVE STEEL, LOW ALLOY HIGH STRENGTH STEEL, BARS WIRE, FORGINGS, & SEMI-FINISHED	EAF (4) 1 VACUUM INDUCTION 7 VACUUM ELECTRODE 1 AOD VESSEL BILLET MILL BAR MILL COLD ROLLING MILL WIRE DRAWING MACHINES FORGES				740 (Dunkirk) 683 (Watervliet) (1977 USW member- ship)

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION II Plant/Permit Number.	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
A1 - Tec (Formerly Allegheny Ludlum) Dunkirk, N.Y. NY0001911	x			Lake Erie		

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
AL-Tec (Formerly Allegheny Ludlum) Watervliet, N.Y. NY0007081	X			Middle Hudson River		

REGION: IV

COMPANY: ALABAMA BY-PRODUCTS

PLANT:

LOCATION: BIRMINGHAM, ALABAMA

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
COKE, COAL CHEMICALS	COKE PLANT (4 BATTERIES)	1920	1941 (oldest) 1969 (newest)	2,400	400 (1977 USW membership)

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION IV Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Alabama By-Pro- ducts Birmingham, Ala. AL 0003417		X	Adjudication Pending	Five Mile Creek WQL	No treatment	By end of 1978, will have activated sludge and polishing pond.

REGION: III

COMPANY: ALAN WOOD STEEL CORP.

PLANT: _____

LOCATION: CONSHOHOCKEN, PA.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
NOW DEFUNCT; COKING FACILITIES MAY BE SOLD & OPERATED	COKE PLANT	1919		1,225	2,350 (1977 USW membership)
	SINTER PLANT			1,500	
	BLAST FURNACES	Late 1800's		2,200	
	BOF SHOP			2,644	
	BLOOMING				
	PLATE				
	SHEET & STRIP MILLS				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities.</u>	<u>Compliance Status</u>
Alan Wood Steel Corp.	Conshohokon, Pa. (near Philadelphia)	Coke Plant (2 batteries) Sinter Plant (1 line) Blast Furnace Shop (2 furnaces) BOF Shop (2 vessels)	Shutdown and in receivership; coke plant may be purchased and operated as foundry coke plant; it is not now equipped to be in compliance with Pennsylvania regulations which would take at least one and one-half years.

REGION: III

COMPANY: ALLEGHENY LUDLUM

PLANT: FLAT ROLLED PRODUCTS DIVISION

LOCATION: BRACKENRIDGE, PA.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
ALLOY & STAINLESS STRIPS, SHEETS, PIPES, TUBES	CUPOLA BOF EAF BLOOMING MILL HOT STRIP MILL SHEET MILL PIPE & TUBING MILL				2,860 (1977 USW membership)

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Allegheny Ludlum	Brackenridge, Pennsylvania (Allegheny County)	Cupola (1)	SIP violation on fugitives from transfer of hot metal from cupola to BOF charging ladle; not yet under EPA NOV.
		BOF SHOP (2 vessels)	In violation due to fugitive emissions from lance hole due to fume generated during making of specialty steel; company is now installing fugitive emissions hoods for charging and tapping.
		EAF (4 furnaces)	In compliance.

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Allegheny Ludlum Brachenridge, PA PA0013820	X					

REGION: III

COMPANY: Allegheny-Ludlum

PLANT: _____

LOCATION: Steeltown, Pennsylvania

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
NO INFORMATION					

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
— Allegheny-Ludlum Steelton, PA PA0006327 Armstrong Co.	X		Adjudicatory Hearing - for effluent limitations Will have facilities constructed by 7/1/77			

REGION: v

COMPANY: Allied Chemical Corp.

PLANT: Semet-Solvay Division

LOCATION: Detroit, MI

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Coke, Coal Chem.	Coke Plant (1 battery)	1901	1968 (oldest) 1968 (newest)		

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION V Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
<u>Detroit, MI Area</u> Allied Chemical Corporation Detroit, MI MI 0004430		X	State moving on enforce- ment action. EPA issued NOV.		Coke plant not meeting BPT.	No information.

REGION: II

COMPANY: ALLIED CHEMICAL

PLANT: _____

LOCATION: TONAWANDA, N.Y.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
COKE, COAL CHEMICALS	COKE PLANT (2 BATTERIES) #1 SHUTDOWN	1917	1962 (oldest) 1962 (newest)		3,280 (1976)

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION II Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Allied Chemical Co Tonawanda, N.Y. NY 0002399	X		State administered permit	Niagara River Effluent limited	Settling ponds, with oil removal	No additional controls planned

REGION: V

COMPANY: Allied Chemical

PLANT: Ironton Coke Plant

LOCATION: Ironton, OH

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Coke, Coal Chem.	Coke Plant (3 batteries)	1917	1942 (oldest) 1955 (newest)		

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

V

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Allied Chem Coke Ironton, OH OH0007579	X		Have Permit Minor violations, generally in compliance Coke plant	Ohio River	Have controls to meet BPT	

REGION: VI

COMPANY: American Iron Works, Inc.

PLANT: _____

LOCATION: Houston, TX

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
NO INFORMATION					

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION VI Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
American Iron Works, Inc. Houston, TX TX0004898		X	Failed to submit AOL of 7/1/77 submitted request for permit modification 8/4/77	Trinity & San Jacinto Rivers		

REGION: IV

COMPANY: Armco Steel

PLANT: Ashland Works

LOCATION: Ashland, KY

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Plate, Hot Strip	Sinter Plant	1958		2,400	3,616 (whole plant - 1973)
Cold Sheet	Blast Furnace Shop (2 furnaces)	1942 (oldest) 1963 (newest)		5,600	3,654 (1977 USW Membership)
Galvanized Sheet	BOF Shop (2 vessels)			6,670	
	Slabbing Mill				
	Blooming Mill				
	Plate Mill				
	Hot Strip Mill				
	Cold Strip Mill				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Armco Steel Corporation	Ashland, KY	Coke Plant	None now; Armco wishes to build 2 battery plant to make up for deficient coke supply; in EPA new source review now.
		Sinter Plant (1 line)	In compliance; venturi scrubber in place.
		Blast Furnace Shop (2 furnaces)	In violation of Kentucky SIP due to casthouse fugitive emissions no NOV; no schedule or equipment.
		BOF (2 vessels)	In compliance on stack; in violation due to fugitive emissions; on 1978 compliance schedule.

REGION: VII

COMPANY: Armco Steel

PLANT: Kansas City Works

LOCATION: Kansas City, MO

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Bars, Rod, Wire, Galvanized Wire, Aluminized Wire, Nails, Staples, Barbed Wire, Woven Wire Fence, Track Spikes, Track Bolts, Nuts, Rivets, and Washers	EAF (4 furnaces)			3,420	4,200 (whole plant - 1973)
	Blooming Mill				2,324 (1977 USW membership)
	Billet Mill				
	Bar Mill				
	Rod Mill				

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
ARMCO Steel Corp. Kansas City, Mo. MO 0004952	X		Permit being modified by State - considered in compliance in the interim	Little Blue River, Effluent Limited	Lagooning system	Future planned segregation of waste before lagoons. Schedule will be established in permit modification

REGION: V

COMPANY: Armco Steel

PLANT: Hamilton Plant

LOCATION: New Miami Hamilton, OH

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Coke, Pig Iron	Coke Plant	1928	1959 (oldest) 1969 (newest)	1,930	565 (whole plant)
	Blast Furnace Shop	1928		2,560	

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Armco Steel Corporation	Hamilton (New Miami, OH)	Coke Plant (4 small batteries)	Was to close in September 1976 but Armco asked EPA to keep it open if "BACT" technology was installed; 1977 tests indicated SIP violation so Armco told to be on 1979 compliance schedule by EPA order.
		Blast Furnace Shop (2 furnaces)	Top gas compliance only; in SIP violation due to casthouse fugitives; no NOV, schedule, or equipment.

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Armco Steel Hamilton, OH OH0009989		X	1976-1977 Winter gas short- age required Coke plant... to remain open. Company had planned to close down to achieve compliance	Miami River	Not meeting BPT	Have ECSL extending be- yond 7/1/77. Coke plant compliance date not established.

REGION: V

COMPANY: Armco Steel

PLANT: Middletown Works

LOCATION: Middletown, OH

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Hot Strips	Coke Plant (3 batteries)	1953	1953 (oldest) 1953 (newest)	1,490	6,350 (whole plant - 1973)
Cold Sheet	Sinter Plant (1 line)			2,640	
Galvanized Sheet	Blast Furnace Shop (2 furnaces)	1953		4,730	
Tin Sheet	BOF Shop (2 vessels)			7,599	
	Open Hearth Shop			5,507	
	Continuous Caster				
	Slab Mill				
	Hot Strip Mill				
	Cold Sheet Mill				
	Tin Mill				
	Pipe & Tube Mill				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Armco Steel Corporation	Middletown, OH	Coke Plant (3 batteries)	Two new batteries being debugged; compliance status still to be determined; older battery in SIP violation; not on a schedule and Armco not willing to put in equipment now.
		Sinter Plant (1 line)	Windbox exhaust is controlled by a malfunctioning wet scrubber; compliance status not known due to variabilities in emissions.
		Blast Furnace Shop (2 furnaces)	In SIP violation due to casthouse fugitives; no NOV issued.
		BOF Shop (2 vessels)	In compliance at stack but in SIP violation due to fugitive; there is some fugitive equipment in place but no schedule for compliance.

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Armco Steel Middletown, OH OH0009997		X	Under Review. Does not have valid issued permit. Show cause order 8/25/77 because haven't met BPT at Coke plant.	Miami River	Not meeting BPT Problem in Coke plant	Compliance Scheduled 5/1/80

REGION: III & V

COMPANY: Armco Steel

PLANT: Butler Works

LOCATION: Butler, PA & Zanesville, OH

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Hot Strip, Cold Sheet	EAF (3 furnaces)			2,500	3,000 (whole plant)
	Continuous Casting				
	Hot Strip Mill				
	Cold Sheet Mill				

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Armco Steel, Butler Butler, PA PA0006343	x		Start-up AOL 7/20/77	.	Electric Arc AOL Finishing 7/20/77	

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Armco Steel Zanesville, OH OH0006353	X		Have Permit In compliance	Hohican River a tributary to Muskingum River	Meeting BPT	

REGION: VI

COMPANY: Armco Steel

PLANT: Houston Works

LOCATION: Houston, TX

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Bars, Structural Shapes, Plates, Pipe	Coke Plant	1943	1953 (oldest) 1968 (newest)	1,045	3,100 (whole plant)
	Sinter Plant			1,360	2,509 (1977 USW membership)
	Blast Furnace	1944		2,200	
	EAF			5,000	
	Blooming Mill				
	Billet Mill				
	Structural Mill				
	Bar Mill				
	Plate Mill				
	Slab Mill				
	Wide Flange				
	Beam Mill				
	Pipe Mill				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Armco Steel Corporation	Houston, Texas Works	Coke Plant (2 batteries)	In compliance with Texas requirements, well equipped with pushing shed/wet ESP, combustion stack ESP, good door control and new larry car.
		Sinter Plant (2 lines)	In compliance with wet scrubber.
		Blast Furnace Shop (2 furnaces)	Top gas control only; no casthouse fugitive control equipment; status unknown.
		EAF (4 furnaces)	In compliance with new whole building evacuation baghouse system.

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Armco Steel Corp. Houston, TX TX0008524	X					

REGION: IX

COMPANY: Bethlehem Steel Corp

PLANT: South San Francisco

LOCATION: South San Francisco, Ca

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Structural Bar	Hot Rolling				223 (1977 USW membership)

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Bethlehem Steel Corp. So. San Francisco, CA CA0005762	X			San Francisco Bay	Steel Finishing & Hot Rolling	

REGION: V

COMPANY: Bethlehem Steel Corp

PLANT: Burns Harbor Plant

LOCATION: Westchester Township, IN

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Sheared Plate	Coke Plant (2 batteries)	1969	1969 (oldest) 1972 (newest)	6,670	6,000 (Total Plant 1973)
Hot Strip	Sinter Plant (1 line)			6,000	4,962 (1977 USW membership)
Sheet - Cold Reduced					
Sheet - Tin	Blast Furnace (2 furnace)	1969 and 1972		10,500	
Sheet - Temper	BOF (2 vessels) Hot Rolling Continuous Pick- ling (2 line) Tin Mill			12,050	

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Bethlehem Steel Corporation	Burns Harbor, IN	Coke Plant (2 batteries)	In violation of SIP; NOV issued; no schedule; State order may be disapproved by Region V; BSC is installing pushing equipment on 1978 schedule, however. Problems are doors and charging.
		Sinter Plant (1 line)	In compliance with emission standard.
		Blast Furnace Shop (2 furnaces)	In violation due to fugitives from Blast Furnace casthouse. No NOV issued; no schedule; top gas cleaning in compliance.
		BOF (2 vessels)	In compliance on primary emissions; in violation on fugitives; NOV but no schedule yet; BSC put in reladling hood/baghouse but problem exists on charging and tapping emissions, company was to add third vessel in expansion program.

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Bethlehem Steel Burns Harbor, IN IN0000175	X		Have permit in compliance	Burns Ditch & Lake Michigan	Have controls to meet BPT	

REGION: III

COMPANY: Bethlehem Steel Corp.

PLANT: Sparrows Point Plant

LOCATION: Sparrows Point, Maryland

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Coke, Coal Chemical	Coke Plant (12 batteries)	1920	1941 (oldest) 1969 (newest)	9,801	22,625 (total plant - 1973)
Pig Iron	Sinter Plant (1 line)			12,200	13,486 (1977 USW Membership)
Rods					
Bars	Blast Furnace Shop (8 furnaces)	Late 1800's	1928 (oldest) 1959 (newest)	19,040	
Skelp					
Universal Plate	BOF Shop (2 vessels)			9,167	
Hot Strips	Open Hearth Shop (4 furnaces)			10,822	
Sheets-Cold Reduced					
-Tin	Blooming Mill				
-Galvanized	Slabbing Mill				
-Galvanized & aluminized	Billet Mill				
Pipe	Rod & Wire Mill				
Wire, Nails					
Flanges & Spun Heads	Plate Mill-Sheared -universal				
	Hot Strip Mill				
	Cold Sheet Mill				
	Tin Mill				
	Pipe Mill				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Bethlehem Steel Corporation	Sparrows Point, MD	Coke Plant (12 batteries)	There is no SIP due to 1972 §307 challenge to original plan; Negotiations since 1974 have led to new 1977 Maryland regulations which are before Region III for review; Regulations are reasonably tight except for fugitive emissions which language is vague; therefore, EPA may not approve.
		Sinter Plant (1 strand)	
		Blast Furnace Shop (8 furnaces)	
		BOF Shop (2 vessels)	
		Open Hearth Shop (4 furnaces)	

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Bethlehem Steel Corp. Sparrows Pt. Mill MD0001201		X	Under Enforcement Review	Patapsco River	Largest Integrated Mill in U.S. Hot & Cold Rolling Portion of Pickling and cooling - receive terminal treatment - in B.F. 1/2/ in.	B.F. six out will be replaced by new furna 4/1/79 Coke Works-completion 11/1/77 Sulfuric Acid liquor regeneration 9/1/80

REGION: II

COMPANY: Bethlehem Steel Corp.

PLANT: Lackawanna

LOCATION: Lackawanna, N.Y.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Rails	Coke Plant (8 batteries)	1924	1953 (Oldest) 1970 (Newest)	8,140	9500 (Total Plant, 1973)
Structural	Sinter Plant (2 lines)			4,000	8,728 (1977 USW membership)
Bar	Blast Furnaces (5 furnaces)		1965 (Oldest) 1975 (Newest)	12,500	
Sheets	BOF (3 furnaces)			14,400	
Galvanized Sheet	Hot Rolling Cold Reduction Continuous Pick- ling (3 lines)				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Bethlehem Steel Corp.	Lackawanna	Coke Plant (8 batteries) 6 shut down 2 operating	Two operating batteries in violation of SIP. Scrubber equipped larry car on #9 battery. New stage charge equipped larry car installed on #6 battery August 1977. However, in violation on everything. NOV issued; schedule still being negotiated.
		Sinter Plant (2 lines)	Two sinter lines will continue to run. Compliance schedule which will probably be signed by BSC to require installation of WESP's for windbox and cooler emissions; on East Strand by July 1, 1979; on West Strand by June 1, 1980.
		Blast Furnaces (5 furnaces) 3 to be shut down	In violation of SIP; top gas cleaning only; NOV issued for casthouse; no schedule yet.
		BOF (3 furnaces)	In violation of SIP; no NOV issued yet.

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Bethlehem Steel, Corporation Lackawanna, N.Y. NY 0001368		X	Adjudicatory Hearing Settled - Enforcement Compliance Schedule Letter (ECSL) prepared, stipulations not yet signed	Blasdell Creek and Smokes Creek. Effluent limited, except thermal water quality limitation	Filter plant, thickeners, precipitation, deep well injection	Schedule not finalized yet, stipulation call for cooling towers and waste recirculation 14 years after signatures.

REGION: III

COMPANY: Bethlehem Steel Corp.

PLANT: Bethlehem Plant

LOCATION: Bethlehem, Pa

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Structural Bars	Coke Ovens (4 batteries)	1914	1953 (oldest) 1976 (newest)	5,840	14,300 (Total Plant, 1973)
	Sinter Plant (4 lines)				8,414 (1977 USW membership)
	Blast Furnace Shop	1857		10,600	
	BOF Shop (2 Vessels)			8,663	
	EHF (5 Furnaces) Hot Rolling			900	

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Bethlehem Steel Corporation	Bethlehem, PA	Coke Ovens (4 batteries)	In violation of SIP; NOV issued; one new battery (1976) properly equipped but in SIP and Pennsylvania regulation violation; other 3 batteries on pushing compliance schedule through 1979; still need to resolve coke plant emissions from doors, charging, and stacks; In compliance on coke-oven gas SO ₂ limits.
		Sinter Plant (4 lines)	In marginal SIP violation on windbox exhaust; NOV issued; State in negotiations on upgrading windbox ESP.
		Blast Furnace Shop (5 furnaces)	In SIP violation; NOV issued; BSC/PA negotiations are ongoing on schedule for control of one operating and 2 possibly-to-be-operated furnaces. Issues are the schedule and whether one dormant furnace is new source; top gas compliance.
		BOF Shop (2 vessels)	Compliance on primary exhaust and violation on fugitive; company on 1978 State compliance schedule; under EPA NOV as well; EPA will determine status after latest schedule is completed.
		EHF (5 furnaces)	In compliance (whole building evacuation).

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Bethlehem Steel Corp. Bethlehem, PA PA0011		X	Concent Decree July 79 anticipated	Lehigh River	B.F. - in Steel Prod. - in Part of Finishing - in	Coke-need to install Amonnia still Hot Rolling - out Pickling - out

REGION: III

COMPANY: Bethlehem Steel Corp.

PLANT: Johnstown Works

LOCATION: Johnstown, Pa.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Bars	Coke Plant (Franklin) 1 remaining battery	1948	1948 1952	1,500	7,500 (whole plant - 1976)
Rod	Sinter Plant (1 line)			2,683	8,216 (1977 USW Membership)
Wheels (#1 & #2)					
Sheared Plate	Blast Furnace Shop (1 furnace)	1958		5,200	
Universal Plate	Open Hearth Shop (4 furnaces)			7,013	
	Hot Rolling Mill				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Bethlehem Steel Corporation	Johnstown Works PA	Coke Plant (1 battery)	In SIP violation and under NOV; State/EPA/BSC negotiation of July 1977 allows company to operate battery for two years with company to: (1) stage charge, (2) retrofit an available push control car to No. 18 battery, (3) meet all Pennsylvanian operational and maintenance requirements; BSC gets to defer coke-oven gas desulfurization equipment installation.
		Sinter Plant (1 line)	In SIP violation and under NOV; will operate for 2 years in violation but with new wet ESP on half of gas stream (that portion in compliance) and other half of flow with old ESP control only; also will regulate feed materials to reduce emissions.
		Blast Furnace Shop (1 furnace)	Top gas compliance but in violation on casthouse emissions. BSC gets to defer equipment installation for two years as a result of July 1977 agreement.
		Open Hearth Shop (4 furnaces)	In SIP violation; on schedule to close by 1978.

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Bethlehem Steel Corp. Johnstown, PA PA0002992		X	Portion shut down due to flooding.		Integrated Mill Rolling 1/2 in.	Coke-in progress Cold Finishing - out Anticipate AOL 1/1/78

REGION: III
COMPANY: Bethlehem Steel Corp
PLANT: Lebanon Plant
LOCATION: Lebanon, Pa.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Bar Miscellaneous: produces full line of industrial fasteners	Hot Rolling				

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Bethlehem Steel Corp. Lebanon, PA PA0008210	X		Anticipate Compliance by 9/1/77 Equipment Delivery			Finishing Mill

REGION: III

COMPANY: Bethlehem Steel Corp.

PLANT: _____

LOCATION: Steelton, PA

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Rails, Bars, Welded Pipe	EAF's (5)			4,000*	2,689 (1977 USW membership)
	Blooming Mill				
	Rail Mill				
	Bar Mills (2)				
	Pipe Mill				
				* Estimate	

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Bethlehem Steel Corp. Steelton, PA PA0008303		X	Anticipate Compliance Nov 77 Equipment Deliveries	Susquehanna River		

REGION: III

COMPANY: BORG-WARNER

PLANT: FRANKLIN STEEL DIVISION

LOCATION: FRANKLIN, PA.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
CARBON STEEL BARS - HOT ROLLED - REINFORCING - LIGHT SHAPES FENCE POSTS	BAR MILL				350 (1977 USW membership)

MAJOR IRON AND STEEL FACILITIES

WATER COMPLIANCE STATUS

REGION III Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Borg-Warner Corp. Franklin, PA PA0002801	X				Finishing Mill No Discharge	

REGION: II

COMPANY: Caribe Steel and Tubing

PLANT: _____

LOCATION: Puerto Rico

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
NO INFORMATION					

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

FACILITY NAME Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Caribe Steel and Tubing Puerto Rico PR 0021229		X	Show cause order being issued (Caribe Steel purchased plant from Phelps Dodge within the past year)	Unnamed ditch to Caribbean Effluent limited	None for process wastes - Cooling towers for cooling water	Mechanical descaling and reduced flow planned January 1978 deadline requested by comparison EPA response pending show cause results

REGION: I

COMPANY: CARPENTER TECHNOLOGY

PLANT: BRIDGEPORT PLANT

LOCATION: BRIDGEPORT, CONN.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
ALLOY & STAINLESS BAR & RODS	EAF (2) ARGON - OXYGEN DECARB (1) BLOOMING MILL BAR & ROD MILL			400	550 (1977 USW membership)

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION I Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
<u>Connecticut</u>						
1. Carpenter Techno- logy Steel Division CT0003042	X			Quinnipiac Rivers & Western Connecticut Coastal		

REGION: III

COMPANY: CARPENTER TECHNOLOGY CORP.

PLANT: READING PLANT

LOCATION: READING, PA.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
ALLOY, STAINLESS; BARS, BILLETS, WIRE, STRIP	EAF (5) VACUUM INDUCTION (2) CONSUMABLE ELECTRODE (10) ELECTRO SLAG REMELT (2) ARGON - OXYGEN DECARB (1) COGGING MILL BAR MILLS COMB. BAR, ROD & STRIP COLD STRIP MILL FORGING EQUIPMENT			350	

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
III Carpenter Tech. Reading, PA PA0013129	X			Delaware River - Schuylkill	Speciality Steel Co Integrated Mill	

REGION: VIII

COMPANY: CF&I STEEL CORP.

PLANT: PUEBLO PLANT

LOCATION: PUEBLO, COLORADO

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
COAL CHEMICALS, PIG IRON, TUBES, RODS, STRUCTURAL SHAPES, PLATES - UNIVERSAL, RAILS, TRACK SPIKES, BARS, PIPE, WIRE, GALV. WIRE, NAILS, STAPLES, BARBED WIRE, FENCING, WIRE & STRAND, UTILITY STRAND, GALVANIZED STRIP, COLD SHEET	COKE PLANT BLAST FURNACES SINTER PLANT BOF EAF BLOOMING MILL RAIL MILL STRUCTURAL SHAPES BAR MILL ROD MILL PIPE MILL WIRE MILL				Approx. 8,000 (Whole Plant - 1976) 4,332 (1977 USW membership)

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
CF & I Steel	Pueblo, Colorado	Coke Plant (3 batteries)	In SIP violation due to pushing and door leaks; on State compliance schedule for December 1979; EPA is in litigation to achieve federally enforceable schedule.
		Sinter Plant (2 lines)	In SIP violation on main exhaust; under State variance until November 1977; no schedule at present.
		Blast Furnace Shop (2 furnaces)	In violation of SIP due to casthouse fugitive emissions under NOV; no equipment or schedule.
		BOF Shop (4 furnaces)	In SIP violation due to stack and fugitive emissions; on 1979 State compliance schedule; EPA in litigation to achieve federally enforceable schedule.
		EAF Shop (4 furnaces)	Compliance.

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
CF&I Steel Pueblo, CO C00000621	X		Old Permit still in force State issued Permit 2/77 under Adjudication	Sand Creek at con- fluence with Arkansas River	Meeting BPT levels from lagoons	

REGION: IV

COMPANY: CHATTANOOGA COKE & CHEMICAL CO.

PLANT:

LOCATION: CHATTANOOGA, TENN.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
COKE, COAL CHEMICALS	COKE PLANT (2 BATTERIES)				110 (1977 USW membership)

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
IV Chattanooga Coke & Chemical Co. Chattanooga, Tn. TN 0001635		X	Adjudicatory Hearing Pending, permit being re- issued, modifications and adjudications unresolved	Chattanooga Creek WQL	Oil/Water separa- tors, not suffici- ent to meet limits	Future controls pending resolution of permit.

REGION: V

COMPANY: COPPERWELD STEEL CO.

PLANT: COPPERWELD SPECIALTY STEEL CO

LOCATION: WARREN, OH.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
TUBE ROUNDS, BARS - HOT ROLLED - COLD FINISHED	EAF (7) BLOOMING MILL BAR MILL			2,534	

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Copperweld Steel Company Warren, OH OH0011207		X	Failed to install treat- ment facilities.	Mahoning River W.Q.L.	No controls in or under construction to meet BPT.	No agreement reached as result of Third Circuit Court rever- sal of Mahoning/ Train case.

REGION: II

COMPANY: CRUCIBLE, INC.

PLANT: SPECIALTY METALS DIVISION

LOCATION: SYRACUSE, NEW YORK

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
WIRE RODS, FORGINGS, TOOL STEEL, STAINLESS WIRE, BARS - HOT & COLD ROLLED	EAF (5)				1,681 (1977 USW membership)
	ELECTRICAL INDUCTION (1)				
	VACUUM INDUCTION (1)				
	VACUUM ELECTRODE				
	ARC REMELTING (1)				
	BILLET MILL				
	BAR MILL				
	ROD MILL				
	JOBBER MILL				
	ROD & BAR MILL				
	WIRE DRAWING FORGE				

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION II Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Crucible Inc., Special Metals Division Syracuse, N.Y. NY0000825	X			Trib. of Oswego River		

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Crucible Steel	Midland, PA. (Western, PA.)	Coke Plant (3 batteries)	All in SIP violation and without equipment for compliance.
		Blast Furnace Shop (2 furnaces)	Coke charging, pushing, COG equipment
		BOF Shop (2 vessels)	Casthouse controls
		:	BOF fugitive hood
			NOV's issued for all the above and EPA/Company/PA. negotiations under way.

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Crucible, Inc. Midland, PA PA0005754		X	Adjudication Pending ESCL Requested Municipal tie-in not Available			Integrated Alloy & Stainless Steel Coke-go to municipality when available B.F. out Steelmaking out Finishing out

REGION: V

COMPANY: Cyclops Corporation

PLANT: Empire-Detroit Steel Division

LOCATION: Mansfield, OH

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Hot Strips	Open Hearth Shop (5 furnaces)			2,650	1,400 (1977 USW membership)
Sheets-Cold & Hot Reduced	EAF (2 furnaces)			1,200	
	AOD (1 furnace)				
	Hot Strip Mill				
	Cold Sheet Mill				

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Ohio Empire - Detroit Steel Mansfield, OH OH0006840		X	Have permit. NOV issued 7/15/77.	Mohican River a tributary to Muskingum River	Not meeting BPT.	

REGION: V

COMPANY: Cyclops Corporation

PLANT: Empire-Detroit Division Portsmouth Plant

LOCATION: New Boston, OH

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Coke, Coal Chem., Pig Iron, Carbon Steel, Sheets and Strips	Coke Plant	1953		1,145	1,029 (1977 USW membership)
	Blast Furnace Shop (2 furnaces)			2,000	
	Open Hearth Shop (5 furnaces)			2,650	
	Slabbing-Blooming Mill				
	Cold Sheet Mill				

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Empire-Detroit Steel Division Cyclops Corp. Portsmouth, OH OH0006068		X	Failed to install treat- ment facilities	Ohio River	Not meeting BPT	No agreement reached. Don't expect com- pliance for 2 or 3 years.

REGION: V

COMPANY: Cyclops Corporation

PLANT: Empire-Detroit Steel Division

LOCATION: Zanesville, OH

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
NO INFORMATION					

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
V Empire - Detroit Steel Cyclops Corp. Zanesville, OH OH0004190	X		Have Permit Small plant in Compliance	Sandusky to Cuyahoga River	Meeting BPT	

REGION: III

COMPANY: CYCLOPS, CORP.

PLANT: UNIVERSAL - CYCLOPS SPECIALTY STEEL DIVISION -
BRIDGEVILLE PLANT

LOCATION: BRIDGEVILLE, PA.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
STAINLESS & HEAT RESISTING STEELS, HIGH SPEED STEELS, TOOL & DIE STEELS, HIGH TEMP. HIGH STRENGTH STEELS, ELECTRICAL, MAGNETIC, & ELECTRONIC METALS, IN FORM OF: BILLETS PLATE SHEET STRIP HOT ROLLED & COLD FINISHED BAR & WIRE, SPECIAL SHAPES	EAF (3) VACUUM ARC REMELT (2) VACUUM INDUCTION (1) ELECTROSLAG (1) BLOOMING MILL BAR MILL ROD MILL STRIP MILL			292	904 (1977 USW membership)

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION III Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Cyclops, Corp. Bridgeville, PA. PA0003603	X			Ohio River		Finishing Mill Speciality Steel

REGION: III

COMPANY: Cyclops Corporation

PLANT: Pittsburgh Sheet Department

LOCATION: Pittsburgh, PA

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Hot & Cold Sheet	Sheet Mill				350 (1977 USW membership)

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION III Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Cyclops, Corp. Pittsburgh, PA PA0003620	X		Revision Request EPA Approved, Pending State	Monongahela River		Speciality Steel

REGION: II

COMPANY: Donner-Hanna Coke Corporation

PLANT: Buffalo Coke Plant

LOCATION: Buffalo, New York

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Coke, Coal Chemicals	Coke Plant (3 batteries)			UNKNOWN	279 (1977 USW Membership)

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Donner-Hanna Coke Corp. Buffalo, N.Y. NY0003310		X	Met July 1, 1977, construction date, but have suspended solids violations.	Buffalo River Effluent limited, except thermal W.Q. limitations	Lime injection diffusers for cooling, and settling basins.	No future control needed for BPT.

REGION: III

COMPANY: EDGEWATER CORP.

PLANT: OAKMOUNT DIVISION

LOCATION: OAKMOUNT, PA.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
FORGED & ROLLED SEAMLESS STEEL RINGS, WROUGHT STEEL WHEELS, RING SPRINGS	EAF (1) FORGES RING & WHEEL ROLLING MILLS			270	720 (1977 USW membership)

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION III Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Edgewater, Corp. Oakmont, PA PA0001660	X		AOL 12/6/76	Allegheny River		

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION III Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Edgewater Corp. Oakmont, PA PA0001660	X					Speciality Steel

REGION: IV

COMPANY: EMPIRE COKE

PLANT:

LOCATION: TUSCALOOSA, ALA.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
	NO INFORMATION				

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION IV Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
<u>Non-Birmingham Area</u>						
Empire Coke (McLain Cast Iron) Tuscaloosa, Ala. AL 0001767		X	Enforcement Action Pending because of delays and no update reports from com- pany	Black Warrior River WQL	Activated Sludge, followed by polish- ing pond	Automated filtration in place, but not operational should have attained operational level by Sept. 15, 1977

REGION: V

COMPANY: FORD MOTOR CO.

PLANT: ROUGE WORKS

LOCATION: DEARBORN, MI.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
COKE, COAL CHEMICALS, BARS - HOT ROLLED SHEETS - HOT & COLD ROLLED	COKE PLANT	1962	1962 (oldest) 1972 (newest)	4,340	
	BLAST FURNACES			6,650	
	BOFS			8,000	
	EAFS			2,500	
	BLOOMING MILL				
	BILLET MILL				
	BAR MILL				
	SLABBING MILL				
	HOT STRIP MILL				
	COLD SHEET				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Ford Motor Company	Dearborn, MI	Coke Plant (5 batteries)	No compliance with pushing doors, charging; no EPA NOV; Wayne County/Ford negotiations currently underway; Ford did install first generation position hood 1972-1976 but the system does not meet SIP.
		Blast Furnace Shop (3 furnaces)	In violation on casthouse fugitive; no NOV, no EPA action.
		BOF Shop (2 vessels)	In violation of SIP; on 1980 compliance schedule.
		EAF (4 furnaces)	In compliance with SIP.

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Ford Motor Corp. (Rouge Complex) Dearborn, MI MI0003361		X	Failed to install treat- ment facilities.	Rouge River Effluent Limited	Controls not meet- ing BPT in blast furnace.	Compliance as of April, 1979.

REGION: IV

COMPANY: GEORGETOWN STEEL CORP

PLANT:

LOCATION: GEORGETOWN, S.C.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
BARS - HOT ROLLED	EAF (3)			1,600	
- REIN- FORCING	CONTINUOUS BILLET CASTER				
WIRE ROD	ROD & MILL				

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
IV Georgetown Steel Corp. Georgetown, S.C. SC0001431	X					

REGION: VII

COMPANY: Great Lakes Carbon

PLANT: Missouri Coke & Chem. Division

LOCATION: St. Louis, MO

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Coke, Coal Chem.	Coke Plant (2 batteries)	1914	1952 (oldest) 1976 (newest)	1,000	

WATER COMPLIANCE STATUS**MAJOR IRON AND STEEL FACILITIES**

REGION VII Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Great Lakes Carbon St. Louis, Mo. MO 0000370	X		Facility in compliance as of show cause hearing 9/22/77	Mississippi River, Effluent Limited	Recycling wastes - reducing waste flow to 550 gal/day to meet effluent limitations	No Compliance Schedule

REGION: V

COMPANY: Inland Steel Corp.

PLANT: Indiana Harbor Works

LOCATION: East Chicago, Indiana

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Structural Shapes H-Piles Plates, Track Spikes, Bars Black Plate, Sheets-Hot Rolled Cold Rolled, Electrical, Porcelain Enameling, Galvanized, Aluminum Coated, Painted, Hot Strips	Coke Plant	1913	1950 (oldest) 1970 (newest)	8,670	14,000 (whole plant - 1973)
	Blast Furnace	1907 (oldest) 1947 (newest)		22,200	17,955 (1977 USW Membership)
	Sinter Plant				
	BOF				
	EAF			1,370	
	Continuous Casting				
	- Slab				
	- Billet				
	Blooming Mills				
	Slabbing Mills				
	Billet Mill				
	Bar Mill				
	Structural Mill				
	Plate Mill				
	Hot Strip Mill				
	Cold Sheet Mill				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Inland Steel Corp.	East Chicago, (Chicago)	Coke Plant (7 batteries)	1974 pipeline charged battery is partially equipped but has had severe operating problems which lead as well to emissions problems; hence there is an economic incentive to abate emissions.
			Other batteries in violation and on 1980 compliance schedule.
		Blast Furnace Shop (8 furnaces)	In SIP violation due to casthouse fugitive emissions; no NOV; no equipment; no schedule; some due to be shut down in 1979 upon start-up of new large blast furnace.
		Sinter Plant (1 line)	Compliance - baghouse.
		BOF Shops (2 shops, 2 vessels each)	In compliance with main scrubber exhausts and on 1979 compliance schedule for fugitives from one of the shops.
		Open Hearth Shop (7 furnaces)	In compliance on stacks via ESP; unknown compliance status due to fugitives.
		EAF Shop (2 furnaces)	Fugitive dust violations.

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Inland Steel Corp. East Chicago, IN IN0000094	X		Have permit. In Compliance	Grand Calumet River	Have controls to meet BPT.	

REGION: V

COMPANY: Interlake, Inc.

PLANT: Chicago Plant

LOCATION: Chicago, Illinois

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Coke, Coal Chemicals, Pig Iron, Steel	Coke Plant	1906	1955 (oldest)	1740	640 (1977 USW Membership)
	Blast Furnace Shop	1907 (oldest)	1955 (newest)	3400	
	Sinter Plant	1909 (newest)		3312	
	BOF				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Interlake, Inc.	Chicago Plant (South Chicago)	Coke Plant (2 batteries)	In SIP violation; went through 1977 listing proceeding; now in 1980 compliance schedule.
		Sinter Plant (1 line)	In SIP violation; under NOV; not on compliance schedule and are operating with ineffective scrubber.
		Blast Furnace Shop (2 furnaces)	In SIP violation due to casthouse fugitives; not under NOV nor on compliance schedule.
		BOF Shop (2 vessels)	In compliance on primary stack emissions but in violation due to process fugitive emissions; no equipment now; under NOV; no compliance schedule.

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Interlake, Inc. Chicago Furnace Co. IL0002101	X			Calumet River Illinois Effluent limits.	Have controls to meet BPT.	

REGION: V

COMPANY: Interlake, Inc.

PLANT: Riverdale Station

LOCATION: Chicago, Illinois

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Hot Strip	BOF Shop (2 vessels)			2,400	2,200 (1977 USW Membership)
Cold Sheet	Hot Rolling				
Galvanized Sheet	Pickling (5 lines)				
	Galvanized (4 lines)				

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Interlake, Inc. Riverdale, IL IL0002119	X			Little Calumet- Illinois Effluent Limited	Have controls to meet BPT.	

REGION: v

COMPANY: Interlake, Inc.

PLANT: Toledo, Plant

LOCATION: Toledo, Ohio

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Coke, Coal Chemicals, Pig Iron, Steel	Coke Plant	1906	1953 (oldest) 1953 (newest)	814	486 (1977 USW Membership)
	Blast Furnace Shop	1903 (oldest) 1905 (newest)		3,150	
	EHF				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities.</u>	<u>Compliance Status</u>
Interlake, Inc.	Toledo, Ohio	Coke Plant (1 battery)	In SIP violation; under NOV; no schedule nor agreement to comply by company.
		Blast Furnace Shop (2 furnaces)	In SIP violation due to casthouse fugitive emissions; no NOV, schedule, or equipment now.
		EAF Shop (7 furnaces)	Uncertain.

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Interlake Steel Toledo, OH OH0002976	X			Maumee River	Coke plant wastes go to municipal treatment plant	

REGION: III

COMPANY: JESSOP STEEL CO.

PLANT: WASHINGTON WORKS

LOCATION: WASHINGTON, PA.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
CARBON & ALLOY TOOL STEEL, STAINLESS, SHEETS, BARS, PLATES AND CASTINGS	EAF (4) ELECTRIC INDUCTION (4) ARGON OXYGEN VESSEL (1) BAR MILL SHEET MILL COMBO. SLABBING, BLOOMING, & PLATE MILL			261	1,042 (1977 USW Membership)

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION III Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Jessop Steel Corp. Washington PA0001902		X	AOL 10/78	Chartiers Creek		Speciality - Stainless Alloy Steelmaking - under con- -struction Finishing - under con- -struction Anticipated AOL 10/78

REGION: IV

COMPANY: Jim Walter Resources, Inc.

PLANT: _____

LOCATION: Birmingham, AL

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Coke, Coal Chemicals, Pig Iron, Gray and Ductile Iron	Coke Plant (5 batteries)	1920	1953 (oldest) 1958 (newest)	2,760	806 (1977 USW Membership)
Pressure Pipe and Fittings, Valves, Hydrants, Castings, Tubes	Blast Furnace Shop (1 furnace)	1958		1,100	

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION IV Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
No. Birmingham Complex Jim-Walker (U.S. Pipe) AL 0003247		X	Adjudication Pending Appeal Pending on 5th Circuit ruling (in favor of company)	Five Mile Creek WQL	Activated sludge, holding pond skimmers (dispute is over BPT)	Pending Court Appeal

REGION: V

COMPANY: Jones & Laughlin Steel Corp.

PLANT: Cleveland Works

LOCATION: Cuyahoga Co., Ohio

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Sheet - Plate	Blast Furnace Shop	1952 (oldest) 1963 (newest)		5,367	4,450 (whole plant 1973)
Sheet - cold	BOF Shop (2 vessels)			6,585	4,007 (1977 USW Membership)
	EAF Shop (2 furnaces)			3,000	
	Hot Rolling				
	Continuous Pickling (2 lines)				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Jones & Laughlin Steel Corp.	Cleveland, OH Works	Blast Furnace Shop (2 furnaces)	In SIP violation due to cast house fugitives; no equipment, NOV, or schedule now.
		BOF Shop (2 vessels)	In compliance
		Sinter Plant (1 line)	Down
		EAF Shop (2 furnaces)	In compliance

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Jones & Laughlin Cleveland, OH OH0000850	X			Cuyahoga River Effluent/Water Quality	Have controls for BPT.	

REGION: III

COMPANY: Jones & Laughlin Steel Corp.

PLANT: Aliquippa Works

LOCATION: Aliquippa, Pa.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Bar	Coke Plant (3 batteries)	1926	1945 (oldest) 1976 (newest)	6,946	11,000 (whole plant - 1977)
Rod	Sinter Plant (1 line)			6,500	9,975 (1977 USW Membership)
Sheet-cold reduced	Blast Furnace Shop (5 furnaces)	1909 (oldest) 1919 (newest)		11,000	
Sheet-tin	BOF Shop (3 vessels)			9,600	
Strip-hot	Hot Rolling Mill				
Pipe & Tube	Tin Plating (3 lines)				
Wire	Pipe & Tube Mill				
	Wire Mill				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Jones and Laughlin Steel Corp.	Aliquippa Works (Western PA)	Coke Plant (3 batteries)	A-5 battery is new pipeline charged unit with production problems; it has coke-side pushing/door shed but is in violation due to pusherside doors and charging; under EPA NOV. Other two units are in SIP and Pennsylvania regulation violation and a 1983 State schedule for either shut down or rebuilding; unacceptable schedule to EPA and State. Schedule in violation of new State regulations which require 1979 compliance therewith.
		Blast Furnace Shop	In SIP violation due to casthouse fugitives; NOV issued; no schedule or equipment yet.
		BOF Shop	In SIP violation due to fugitives; under NOV. Region III performed 30 day followup inspection July 1977.
		Sinter Plant	In SIP violation; 1980 compliance schedule for wet ESP.

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Jones & Laughlin Steel & Co. Aliquippa, P.A. (Beaver Co.) PA0006114		X	Adjudicatory Hearing Pending Under Appeal Pre-hearing conference held	Ohio River		AOL 6/83 B.F. - 6/83 Steelmaking - 6/83 Finishing - 6/83

REGION: III

COMPANY: Jones & Laughlin Steel Corp.

PLANT: Pittsburgh Works

LOCATION: Pittsburgh, Pa.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Bar	Coke Plant (5 batteries)	1919	1953 (oldest) 1976 (newest)	5,300	6,000 (whole plant - 1977)
Sheet - cold reduced	Blast Furnace Shop	1900 (oldest) 1966 (newest)		5,275	5,509 (1977 USW Membership)
Plate	Open Hearth Shop (5 furnaces)			5,180	
Sheet - temp. fin.	Hot Rolling Mill Cold Rolling Mill				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Jones and Laughlin	Pittsburgh Works	Coke Plant (5 batteries)	In violation of SIP for pushing, charging, doors, coke-oven gas sulfur, and stacks; on 1975, EPA order for rehabilitation and O&M changes through 1981; now in violation of interim door standards on rehabilitated batteries but have also reduced emissions at plant since 1975 order; coke-oven gas desulfurization equipment was installed to meet SIP but is not working reliably.
		Blast Furnace Shop (1 furnace)	In SIP violation; no EPA NOV issued yet.
		Open Hearth Shop (5 furnaces)	In SIP violation; to be shut down in 1979 when EAF starts up.

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Jones & Laughlin Steel Co. Pittsburgh, PA PA0006131		X	Under Appeal Adjudicatory Hearing Pending	Monongahela River	Coke-slightly out operation problem. Continuous casting recycle - in	B.F. phasing out O.H. once through E.F. recycle AOL AOL 1/79 Finishing-only primary treatment Continuous casting - recycle Hot Forming-Floc clarification Chemical system

REGION: III

COMPANY: Jones & Laughlin Steel Corp.

PLANT: Special Tube Plant

LOCATION: Oil City, Pa.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Tube	Weld Tube Mill (4 continuous)				

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Jones & Laughlin Oil City, PA PA0006122	X				Discharge to municipal system	

REGION: IX

COMPANY: KAISER STEEL CORP.

PLANT: _____

LOCATION: FONTANA, CAL.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
COKE, COAL CHEMICALS, STRUCTURAL SHAPES, PLATES - SHEARED - UNIVERSAL BARS - HOT ROLLED - REINFORCING SKELP, STRIP, SHEETS, PIPE, GALV. PIPE, TIN PLATE, BLACK PLATE, GALV. SHEET & COILS, CULVERT STOCK	COKE PLANT	1942	1953 (oldest) 1969 (newest)	4,100	8,700 (whole plant - 1976)
	SINTER PLANT			3,850	
	BLAST FURNACE	1942 (oldest) 1959 (newest)		7,200	7,000 (1977 USW Membership)
	OPEN HEARTH FURNACE			4,931	
	BOFS			3,836	
	SLABBING MILL				
	BLOOMING MILL				
	PLATE MILL				
	STRUCTURAL MILL				
	MERCHANT SKELP				
	HOT STRIP MILL				
	COLD SHEET MILL				
	TIN MILL				
	PIPE MILL				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Kaiser Steel Corp.	Fontana, California	Coke Plant (7 batteries)	Were in violation of SIP, then of 1974 EPA-Kaiser con- sent order & then of 1976 consent order, new agreement negotiated following new CA. coke regulations (still to be submitted to EPA for approval); pushing schedule through 1981; stack schedule through 1980; in violation of new Calif. rule on charging and doors; COG schedule through 1979 for modern technology.
		Sinter Plant (2 lines)	Compliance - baghouse on both windbox and discharge end.
		Blast Furnace Shop (4 furnaces)	In SIP violation due to casthouse emissions; no NOV, equipment, nor schedule.
		Open Hearth Shop (8 furnaces) 5 down	In compliance with schedule; three will remain in operation to melt scrap; only two can operate at any one time. <i>BoF stack emissions in compliance with SIP. BoF emissions are</i>
		BOF Shop (3 vessels)	In violation of SIP due to fugitives but are operating with retrofitted hood/baghouse system which is partially effective; <i>comply</i>
		New BOF Shop (2 vessels) Startup September 1978	building new BOF shop to be fully equipped. <i>schedule</i>

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Kaiser Steel Corp. Fontana, CA CA0105449		X	Exceed effluent limits for oil & grease & conduc- tivity (permits for storm water run-off not process wastes	Santa Ana River	Process wastes is recycled or dis- charged to evapo- ration pond.	
Kaiser Steel Corp. Fontana, CA CA0105447		X	Exceeds limits for oil & grease limits. (Permits for storm water run-off not process wastes)	Santa Ana River	Process wastes is recycled or dis- charged to evapo- ration ponds.	

REGION: IV

COMPANY: Koppers Company, Inc

PLANT: _____

LOCATION: Woodward, AL

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Coke, Coal Chemicals	Coke Plant (8 batteries)	1914	1948 (oldest) 1970 (newest)	2,100	330 (1977 USW Membership)

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION IV Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Koppers Co., Inc. Woodward, Ala. AL 000680		X	Adjudicatory Hearing	Opossum Creek WQL	No treatment	By end of 1977, will have activated sludge and polishing pond.

REGION: V

COMPANY: LACLEDE STEEL CO.

PLANT: ALTON WORKS

LOCATION: ALTON, ILLINOIS

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
SKELP, WIRE RODS, BARS - HOT ROLLED SPECIAL REINFORCING PLATES, STRIP, SHEETS PIPE - BLACK GALVANIZED WIRE - SPRING GALVANIZED ANNEALED	EAF (2) CONTINUOUS CASTING (6 STRANDS) BLOOMING MILL ROD MILL BAR MILL STRIP MILL SKELP MILL WIRE MILL PIPE & TUBING MILL			2,400	2,400 (1977 USW Membership)

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Laclede Steel Corp. IL0000612	X			Mississippi River Effluent Limits	Meeting BPT	

REGION: VI

COMPANY: Lone Star Steel

PLANT: Lone Star Works

LOCATION: Lone Star, TX

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Coke, Coal Chemicals, Pig Iron, Skelp, Bars-Reinforcing, Sheets-Hot Rolled, Pipe & Tubing	Coke Plant (2 batteries)	1944	1944 (oldest) 1974 (newest)	1,214	3,000 (1977 USW Membership)
	Blast Furnace Shop (1 furnace)	1947		1,200	
	Open Hearth Shop (5 furnaces)			3,835	
	Slabbing Mill				
	Strip Mill				
	Bar Mill				
	Pipe & Tubing Mill				

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION VI Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
<u>Texas</u> Lone Star Steel Lone Star, TX TX0000027	X			Lower Red River		

REGION: III

COMPANY: Lukens Steel Co.

PLANT: Coatsville Works

LOCATION: Coatsville, PA

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Carbon, Alloy Plates	Open Hearth Shop (6 furnaces)				
	EAF (4 furnaces)			2,800	2,817 (1977 USW Membership)
	Slab Caster				
	Plate Mills (2 lines)				

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Lukens Steel Corp. Coatesville, PA PA0011568		X	Anticipate AOL 10/79	Delaware River	Speciality Alloy Steel	E.A. - out Finishing - out Pickling - out Anticipate AOL 1/79

REGION: V

COMPANY: McLouth Steel Corp.

PLANT: Gibraltar Works

LOCATION: Gibraltar, MI

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Carbon, Alloy, Stainless, Sheets, Cold Reduced	Cold Sheet Mill				564 (1977 USW Membership)

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
McLouth Steel Corporation Gilbraltar, MI MI0004227	X		Some minor violations.	Detroit River	Control in to meet BPT.	

REGION: V

COMPANY: McLOUTH STEEL CORP.

PLANT: TRENTON WORKS

LOCATION: TRENTON, MI.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
PIG IRON, PLATES, SHEET, STRIP	BLAST FURNACES (2)	1954 (oldest) 1958 (newest)		5,000	2,865 (1977 USW Membership)
	BOP (5)			6,000	
	EAF (2)			1,150	
	CONTINUOUS SLAB CASTER				
	BLOOMING MILL				
	SHEET MILL				
	PICKLING LINES (2)				

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
McLouth Steel Corporation Trenton, MI MI0002399		X	Failed to install treat- ment facilities.	Detroit River Effluent Limited	Not meeting BPT.	Compliance by end of 1977.

REGION: V

COMPANY: National Steel

PLANT: Granite City Steel Division

LOCATION: Granite City, IL

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Plates - Sheared	Coke Plant	1921	1953 (oldest) 1972 (newest)	2,640	4,857 (total plant - 1973)
Sheets - Hot Rolled	Sinter Plant			3,800	2,058 (1977 USW membership)
- Cold Rolled	Blast Furnace Shop	1921		5,200	
- Electrical	BOF			6,900	
- Galvanized					
Strip - Hot Rolled	Slabbing Mill				
- Black Plate					
Galvanized Roofing and Siding	Hot Strip Mill				
	Cold Sheet Mill				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
National Steel	Granite City Steel Division, (Southern Illinois)	Coke Plant (3 batteries)	In partial SIP compliance by having installed two pushing emissions cars in 1977 but not in full compliance due to charging and doors; Illinois EPA now reviewing basic standards with view towards revision; battery rebuilt in 1976; batteries A and B need to be rehabilitated according to GCS consultant.
		Sinter Plant (1 line)	In compliance (used by EPA as example of BACT technology on windbox exhaust; venturi scrubber).
		Blast Furnace Shop (2 furnaces)	Top gas compliance, cast-house in violation.
		BOP (2 vessels)	In SIP violation; on State compliance schedule for 1979.

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Granite City Steel Granite, IL IL0000329	X		Have permit. In compliance	Mississippi River	Meeting BPT	

REGION: V

COMPANY: National Steel Corporation

PLANT: Midwest Steel Division

LOCATION: Portage, Indiana

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Sheets - Hot Rolled - Cold Rolled - Hot Dipped Galvanized	Sheet Mill (5 lines) Galvanizing Line (2 continuous)				1,251 (1977 USW Membership)
Tin Mill - Black Plate - Tin Plate - Chrome Plate	(1 electrolytic) (1 chrome)				

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
National Steel Midwest Steel Div. Portage, IND. IN0000337	X			Burns Ditch Water Quality Limited	Have controls to meet BPT.	

REGION: V

COMPANY: National Steel

PLANT: Great Lakes Steel Division (includes Michigan Plant, 80 Mill, and Zug Island)

LOCATION: Ecorse, Mi. (Detroit)

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Hot Strips, Cold Sheets, Sheared Plate	Coke Plant	1953	1953 (oldest) 1970 (newest)	5,400	11,765 (Total Plant 1973)
	Sinter Plant				
	Blast Furnace			10,954	7,936 (1977 USW membership)
	BOF			6,400*	
	EAF			2,000*	
	Slabbing Mill				
	Blooming Mill				
	Hot Strip Mills (2)				
	Cold Sheet Mill				
				*Estimated	

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
National Steel	Great Lakes Steel Division Ecorse, MI	Coke Plant (3 batteries)	In violation of SIP for all batteries; EPA issued NOV; company had put in first generation pushing emissions equipment in 1973; no schedule for SIP compliance currently.
		Sinter Plant 	In violation with SIP; on compliance schedule for windbox control via venturi scrubber by 1980 and by baghouse on discharge end in 1980.
		Blast Furnace (4 furnaces)	Top gas compliance; casthouse emissions in SIP violation and no equipment in place; no EPA NOV; no State schedule.
		BOF (2 shops, 2 vessels per shop)	In violation; on compliance schedule for installation of reladling hood/baghouse system on both shops by August 1978; compliance status to be deter- mined at that time.
		EAF (3 furnaces)	In SIP violation; on C.S. for installing fugitive emissions system by June 1981; already have primary emssions capture system.

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Great Lakes Steel Ecorse, MI MI002313		X	Failed to install treatment facilities.	Detroit River Effluent Limited	Finishing mills not meeting BPT.	Compliance by Jan. 1, 1978

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Great Lakes Steel 80 Inch Mill, MI MI0026778		X	Failed to install treat- ment facilities	Detroit River Effluent Limited	Finishing mills not meeting BPT.	Compliance by April 1, 1978.

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Great Lakes Steel Michigan Plant MI0026794	X			Detroit River Effluent Limited	Meeting permit requirements	

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Great Lakes Steel Zug Island MI0026786		X	Failed to install treatment facilities	Rouge River Effluent Limited	Blast furnace wastes not meeting BPT.	Compliance to be achieved by 6/30/80.

REGION: V

COMPANY: National Steel

PLANT:

LOCATION: Steubenville, OH

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
NO INFORMATION (May be associated with Weirton, WV plant)					

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
National Steel Stubenville, OH OH0010774	X		Have permit. In Compliance	Ohio River Effluent Limited	Have controls to met BPT.	

REGION: III

COMPANY: National Steel

PLANT: Weirton Steel Division (including Browns Island)

LOCATION: Weirton, W. Va

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Structural Shapes, Hot Strips, Cold Sheet, Tin, Chrome, & Galva- nized Sheet	Coke Plant (5 Batteries)	1923	1954 (Oldest) 1973 (Newest)	8,800	12,000 (1976-Whole Plant)
	Sinter Plant			8,187	
	Blast Furnace			7,921	
	BOF			11,690	
	Slab Caster				
	Blooming Mill				
	Structurals				
	Hot Strip Mill				
	Cold Sheet Mill				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
National Steel	Weirton, W VA.	Coke Plant (5 batteries)	All in SIP violation and all under EPA NOV; one 1973 battery has had consistent reliability problems with a pushing system due to an unreliable associated quenching technology. All batteries have charging and door leakage problems. EPA and ERDA are planning a demonstration dry coke quench system for the 1973 battery which may relieve some of its compliance problems. Company has not agreed to put in proper equipment on other batteries.
		Sinter Plant (1 line)	In SIP violation and under EPA NOV; equipment with an EPA funded unit called windbox gas recirculation which along with their gravel bed filter only can handle 80% of gas flow. The by-passed 20% of the flow is causing violation.
		Blast Furnace Shop (4 furnaces)	In SIP violation and NOV issued for casthouse emissions; no agreement to install hoods at this time.
		BOF (2 vessels)	Thought to be in violation due to fugitives but not under NOV.

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
National Steel Weirton, WV., WV0003336		X	Revision request outstanding	Ohio River	B.F. just AOL	Finishing lagoons - out - AOL 1/1/80
National Steel Weirton, WV. WV0005444		X	Revision request outstanding	Ohio River		

REGION: v

COMPANY: Northwestern Steel & Wire

PLANT: _____

LOCATION: Sterling, IL

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Wire Rods	EAF (3 furnaces)			5,500	3,383 (1977 USW Membership)
Structural Shapes	Blooming Mill				
Steel Piling	Slabbing Mill				
Bar - Hot Rolled - Reinforcing	Billet Mill				
Strip	Merchant Bar Mill				
Wire - Plain	Rod Mill				
- Galvanized					
- Nails, Staples	Structural Mills (2 lines)				
- Barbed					
- Woven Fence	Wire Mill				
- Reinforcing					

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Northwestern Steel & Wire Sterling, IL 110003794	X			Illinois Effluent Limits	Meeting BPT Recycle & evapo- ration	

REGION: III

COMPANY: PHOENIX STEEL CORP.

PLANT: PLATE DIVISION

LOCATION: CLAYMONT, DEL.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
CARBON, ALLOY, STAINLESS, PLATES, PIPE, SPUN & PRESSED HEADS	EAF (2) CONTINUOUS SLAB CASTING PLATE MILL ROUGHING MILL PIPE MILL FLANGE MILL			1,667	1,345 (1977 USW membership)

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
<u>Delaware</u>						
1. Pheonix Steel Corp DE0000268	X			Delaware River	Speciality Steel Electric Furnace & Finishing	

REGION: IV

COMPANY: Republic Steel Corp.

PLANT: Gulfsteel Works

LOCATION: Gadsden, Ala.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Plate Strip-hot Strip-cold reduced sheet-cold mill sheet-galvanized pipe	Coke Plant (2 batteries)	1918	1942 (oldest) 1965 (newest)	2,372	2,200 (whole plant - 1976)
	Sinter Plant (1 line)				2,343 (1977 USW membership)
	Blast Furnace Shop (2 furn- aces)	1918 (oldest) 1942 (newest)		2,300	
	BOF Shop (2 Vessels)			4,500	
	EAF (2 furnaces)				
	Hot Strip Mill				
	Galvanizing Line				
	Pipe Mill				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Republic Steel Corp.	Gadsden, Alabama	Coke Plant (2 batteries)	In compliance with possible exception of pushing emissions; no equipment; no schedule; Alabama may change regulations in near future.
		Sinter Plant (1 line)	Installed windbox baghouse in 1976 and just being tested by EPA October 1977. In compliance on discharge end (baghouse).
		Blast Furnace Shop (2 furnaces)	In violation; no NOV issued; EPA-State disagree on regulations application.
		BOF Shop (2 vessels)	In violation due to fugitives; no NOV; RSC had installed device (non-functioning) for charging control; stack compliance unknown since Alabama test is not accepted by EPA.

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Republic Steel Gadsden AL 0003522		X	Adjudicatory Hearing Close to limits	Black Creek WQL	Polishing lagoons and recycling system	NPT will be in place within 2 months (i.e. by Dec. 1, 1977)

REGION: IV

COMPANY: Republic Steel Corp.

PLANT: Thomas Works

LOCATION: Birmingham, Ala.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Coke	Coke Plant (1 battery)	1914	1952 (oldest) 1952 (newest)	1,066	145 (1973) 128 (1977 USW membership)

AIR' COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Republic Steel Corp.	Thomas Works (Birmingham, Alabama)	Coke Plant (1 battery)	In compliance with possible exception of pushing emissions; no NOV; Alabama may change regulations in near future.

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Republic Steel Birmingham, Ala. AL 0003531		X	Adjudicatory Hearing - close to achieving limits Presently being resolved	Village Creek WQL	Skim and removal followed by holding pond	Will have aerated lagoon within one year after permit resolved.

REGION: V

COMPANY: Republic Steel Corp.

PLANT: South Chicago Works

LOCATION: South Chicago, Illinois

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Bar Rod Seamless Tub Wire	Coke Plant (1 battery)	1943	1943	1,369	3,845 (whole plant - 1973)
	Blast Furance (1 furnace)	1943		5,370	4,604 (1977 USW membership)
	BOF Shop (2 vessels)				
	Open Hearth (2 furnaces)			3,200	
	EAF (3 furn- aces)			2,470	
	Hot Rolling Mill				
	Seamless Tube Mill				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Republic Steel Corp.	Chicago Plant	Coke Plant (1 battery)	Pushing shed started up in 4th quarter of 1976, but battery is in violation on charging, doors, and stack emissions; is more than 30 years old and will be replaced within next 5 years but no schedule now exists.
		Blast Furnace Shop (1 furnace)	In violation due to casthouse fugitives; no NOV issued yet.
		Q-BOF Shops (2 vessels)	New shop started up in 1977. One vessel up now and second vessel to be up in February 1978; modern; will assess compliance status in 1st quarter of 1978.
		Open Hearth Shop (2 furnaces)	Will close when second Q-BOF vessel comes on line.
		EAF (3 furnaces)	In SIP violation and on 1978 compliance schedule; will install fugitive canopy hoods and use old O.H. ESPs for gas cleaning.

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Republic Steel Corp. Chicago District IL0002593	X			Calumet River Illinois Effluent Limits	Have controls to met BPT	

REGION: II

COMPANY: Republic Steel Corp.

PLANT: Buffalo Works

LOCATION: Buffalo, Erie Co., NY

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Bar	Blast Furnace Shop (3 furn- aces)	1906 (oldest) 1918 (newest)		3,180	1,960 (whole plant - 1973)
	BOF Shop (2 furnaces)			4,536	2,249 (1977 USW Membership)
	Bar Mill				

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Republic Steel Buffalo, N.Y. NY 0001881		X	Adjudicatory Hearing Settled - ECSL and stipulations signed	Buffalo River Effluent limited, except thermal water quality limitations	Scale pits, thick- eners, filters, and oil skimmers	Upgrade present system to control total sus- pended solids, oil and grease by April 1981

LOCATION: Canton, Stark Co., Ohio

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Bar Sheet-hot (rough) Sheet-hot (finish)	Coke Plant (1 battery) Blast Furnace (1 furnace) EAF Shop (9 furnaces) Sheet Mill	1927	1955	576 4,222	4,140 (whole plant - 1973) 5,948 (1977 USW Membership)

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AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Republic Steel Corp.	Canton-Massillon, Ohio	Coke Plant (1 battery)	In SIP violation; to be closed in 1981.
		Blast Furnace Shop (1 furnace)	Shut Down
		EAF Shop (9 furnaces)	In SIP violation on EPA compliance schedule for fugitive control.

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Republic Steel Canton, OH OH0006912		X	Have permit. Appealed & 6th Circuit told EPA to go back & review Compliance Schedule dates	Nimishillen Creek a tributary of Musk- ingum River. Effluent Limited	Have controls but not meeting BPT	Compliance by 7/1/79

REGION: V

COMPANY: Republic Steel Corp.

PLANT: Cleveland District

LOCATION: Cleveland, Cuyahoga Co., Ohio

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Bar Hot Strip-Continuous Cold Reduced Strip Galvanized Sheet	Coke Plant (6 batteries)	1917	N/A (oldest) 1952 (newest)	6,320	1,000 (whole plant - 1973)
	Sinter Plant (1 line)				
	Blast Furnace (5 furnaces)	1916 (oldest) 1952 (newest)		9,200	5,832 (1977 USW Membership)
	BOF (2 vessels)			9,800	

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Republic Steel Corp.	Cleveland, Ohio	Coke Plant (6 batteries)	In SIP violation; on 1980 compliance schedule; one new battery (1977) is to be in compliance by September 1978.
		Blast Furnace Shop (5 furnaces)	In SIP violation due to casthouse emissions; no NOV; no schedule.
		Sinter Plant (1 line)	Down now; to be replaced in 1980
		BOF Shop (2 vessels)	An EPA order to comply by 1977. RSC retrofitted a suppressed combustion system and evaluation to occur soon.

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Republic Steel Cleveland, OH OH0000957	X			Cuyahoga River Effluent/Water Quality	Met BPT require- ments	

REGION: V

COMPANY Republic Steel Corp.

PLANT: Warren Works

LOCATION: Warren and Miles, Oh.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Strip-hot Strip-cold reduced Strip-temper Galvanized sheet Terne Plate	Coke Plant (2 batteries) Blast Furnace Shop (1 furn- ace) Sinter Plant (1 line) BOF Shop (2 furnaces) EAF (2 furnaces) Hot Rolling Galvanizing Mill	1923 1921	1948 (oldest) 1949 (newest)	1,852 2,800 7,120	4,988 (whole plant - 1973) 3,790 (1977 USW membership)

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Republic Steel Corp.	Warren, Ohio (Mahoning)	Coke Plant (2 batteries)	In SIP violation; to close by 1980 under EPA order when new battery started up.
		Blast Furnace Shop (1 furnace)	Top gas compliance; in violation due to fugitives from casthouse; no NOV.
		Sinter Plant (1 line)	In SIP violation; under EPA order to shut down in 1980; poorly equipped now.

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Republic-Steel Corporation Niles, OH OH0011266		X	Failed to install treat- ment facilities	Mahoning River Water Quality Limited	No controls to meet BPT	Probably 1980 or beyond.

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Republic-Steel Corporation Warren, OH OH0011274		X	No effective permit. Ad- judicatory Hearing resolved reached agreement with OH & PA but can't issue permit until OH revises WQS some- time in NOV. 1977. Third Circuit Court reversed Mahoning/Train case on 9/19/77.	Mahoning River Water Quality Limited	No controls to meet BPT	Probably 1980 or beyond

REGION: V

COMPANY: Republic Steel Corp.

PLANT: Youngstown Works

LOCATION: Youngstown, Ohio

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Bars Pipe	Coke Plant (3 batteries)	1950	1950 (oldest) 1952 (newest)	3,351	4,086 (whole plant - 1973)
	Sinter Plant (1 line)				2,865 (1977 USW membership)
	Blast Furnace (3 furnaces)	1926 (oldest) 1942 (newest)		2,520	
	BOF Shop (2 vessels)				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Republic Steel Corp.	Youngstown, Ohio	Coke Plant (3 batteries)	In SIP violation; on 1980 compliance schedule.
		Sinter Plant (1 line)	In SIP violation; on 1980 compliance schedule to replace this plant.
		Blast Furnace Shop (3 furnaces)	In violation; no NOV.
		BOF Shop (2 vessels)	In SIP violation; on 1979 compliance schedule on fugitives..

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Republic-Steel Corporation Youngstown, OH OH0011282		X	No effective permit. Ad- judicatory Hearing resolved reached agreement with OH & PA but can't issue permit until OH revised WQS some- time in Nov. 1977. Third Circuit Court reversed Mahoning/Train case on 9/19/77.	Mahoning River Water Quality Limited	No controls to meet BPT.	Probably 1980 or beyond.

REGION: III

COMPANY: SHARON STEEL CORP.

PLANT: STEEL DIVISION/COKE DIVISION

LOCATION: SHARON, PA./FAIRMONT, W.VA.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
COKE, COAL CHEMICALS, PIG IRON, FORGING STEELS, PIPE & TUBING, SHEETS - HOT & COLD ROLLED, SHEETS & STRIPS - GALVANIZED, STRIP HOT & COLD ROLLED	COKE PLANT	1920		650	
	BLAST FURNACES	1901		2,800	
	BOF (3)			3,500	
	EAF (2)			900	
	BLOOMING MILL				
	SLABBING MILL				
	HOT STRIP				
	COLD SHEET				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Sharon Steel	Farrell, Pennsylvania (Western PA)	Coke Plant (West VA) 2 batteries	In SIP violation; under NOV; no equipment; no schedule.
		Blast Furnace Shop (2 vessels)	In SIP violation, not under NOV; casthouse emissions are problem; no equipment, no schedule.
		BOF Shop (2 vessels)	In SIP violation; no NOV yet; problem is fugitives emissions from charging & tapping; nevertheless company is putting in hoods by mid - 1978.

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Sharon Steel Corp. Farrel, PA PA0002429		X	Adjudicatory Hearing	Shenango River		B.F. - out B.O.F. - out Finsihing - out Anticipated AOL 7/80

REGION: III

COMPANY: Shenango, Inc.

PLANT: _____

LOCATION: Neville Island, PA.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Coke, Coal, Chemicals, Pig Iron	Coke Plant (3 batteries)	1929		2,025	500 (1977 USW membership)
	Blast Furnace Shop (2 furnaces)	1952		800	

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION III Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Shenango Inc Neville Coke Div. PA0002437		X	AOL 12/79	Ohio River		Coking & Blast Furnace 12/79

REGION: IV

COMPANY: TENNESSEE FORGING STEEL CORP.

PLANT: HARRIMAN WORKS

LOCATION: HARRIMAN, TENN.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
BAR SIZE ANGLES, MERCHANT BARS - HOT ROLLED, REINFORCING BARS, FORGING QUALITY BILLETS, FLATS	EAF (2) CONTINUOUS BILLET CASTER BAR MILL			700	207 (1977 USW membership)

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
IV Tennessee Forging Steel Corp. TN 0028363	X		Met July 1, 1977, deadline	Caney Creek Cardiff Creek	Oil/Water separators, meet limits	No future controls planned

REGION: IV

COMPANY: U.S. Steel

PLANT: Fairfield Works

LOCATION: Fairfield, Al

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Hot Strip, Tin Sheet, Cold Sheet, Wire	Coke Plant (6 batteries)	1912	1945 (oldest) 1964 newest)	7,716	12,500 (whole plant - 1973)
	Blast Furnace (6 Furnaces)	1908 (Oldest) 1941 (Newest)		8,054	7,822 (1977 USW membership)
	Q - BOP (2 Vessels)			7,440	
	Sinter Plant (4 lines)			7,283	
	Primary Mills				
	Hot Rolling				
	Tin Sheet Fin. & Wire				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
U.S. Steel Corp.	Fairfield Works (Birmingham, AL)	Coke Plant (6 batteries)	No. 5 & 6 in compliance with possible exception on pushing; No. 3, 4 and 8 to be shut down in 1978 when new No. 2 starts up; No. 7 to be down one year after No. 2 start-up; No. 9 is down and under pad-up rebuild now; new No. 2 to be modern preheated coal battery (potentially clean) and to have pushing equipment. Preceding not under EPA schedule.
		Blast Furnace Shop (6 furnaces)	Three Ensley Works B.F. are in SIP violatin and are violation to go down when new Fairfield furnace starts up in 1978; 3 Fairfield units are considered by EPA to be violating SIP due to cast-house fugitive emissions (uncontrolled); no NOV.
		Q-BOF (2 vessels, one more coming)	Violations; due to process fugitives during vessel turn-down period; NOV issued; company has tried tightening down on current undersized fugitive control system and recognizes need for additional action; 3rd vessel being built now to same design as first two units; all three will need additional controls.
		Sinter Plant (4 lines)	Newest unit in violation and on State schedule for September 1978; old lines marginally in violation due to discharge end fugitives; no NOV.

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
U.S. Steel Ensley	X		Currently under Fairfield permit - new permit being issued	Village Creek WQL	Rolling Mills - DPT Blast furnaces - no treatment, but meeting limitations	Blast furnace operations being transferred to Fairfield plant. New permit will specify shutdown of blast furnaces by 1981, in lieu of treatment.

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
U.S. Steel Fairfield AL 0003646	X		Meeting limits	Opossum Creek WQL	BPT	No schedule

REGION: IX

COMPANY: U.S. Steel Corp.

PLANT: Pittsburg Plant

LOCATION: Pittsburg, Cal.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Cold Sheet, Galvanized Sheet, Tin Sheet, Wire, Galvanized Wire, Nails, Staples, Wire Rope, and Strands	Rod Mill Cold Sheet Mill Tin Mill Wire Mill Pipe Mill				1.922 (1977 USW membership)

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
U.S. Steel Corp Pittsburgh, CA CA0005002	X			Suisun Bay	Steel Finishing & Hot Rolling pH Control coagulation & sedimentation	

REGION: V

COMPANY: U.S. Steel Corp.

PLANT: Joliet Works

LOCATION: Joliet, Illinois

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Wire and Wire Products	Rod Mills				790 (1977 USW Membership)

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
U.S. Steel Joliet Joliet, IL IL0002674	X			Ill-Michigan Canal- Illinois Effluent Limits	Controls to meet permit conditions.	

REGION: V

COMPANY: U.S. Steel Corp.

PLANT: South Works

LOCATION: Chicago, Illinois

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Bars, Rod, Plate, Structurals	Sinter Plant (1)				10,000 (whole plant - 1973)
	Blast Furnaces (8 furnaces)	1906 (oldest) 1970 (newest)		12,203	6,497 (1977 USW membership)
	BOF (3 vessels)			11,200	
	Blooming Mill				
	Slabbing Mill				
	Structural Mill				
	Bar Mill				
	Rod Mill				
	Plate Mills				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
U.S. Steel Corp.	South Works (Chicago)	Sinter Plants (1 line)	In SIP violation; had been through listing proceeding in 1977; on C.S. through 1981 for combined windbox/discharge gas cleaning equipment.
		Blast Furnace Shop (8 furnaces)	In violation due to casthouse fugitives; no NOV issued yet.
		BOF (3 vessels)	In SIP violation; on July 1979 State schedule for fugitive control via Gaw Damper and operating procedures changes.

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
U.S. Steel So. Works Chicago, IL IL0002691	X		Have permit. In Compliance	Calumet River Illinois Effluent Limits	Have controls to meet BPT	

LOCATION: Waukegan, Ill.

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
U.S. Steel Corp. Waukegan Works Waukegan, IL IL0002682	X			Lake Michigan Effluent Limits	Have controls to meet BPT,	

REGION: V

COMPANY: U.S. Steel Corp.

PLANT: Gary Works

LOCATION Gary, Indiana

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Rails, Plate, Bar, Hot Strip, Cold Sheet, Tin Sheet, Forged Products	Coke Plant	1911	1949 (oldest) 1976 (newest)	11,960	23,400 (whole plant - 1973) 17,688 (1977 USW Membership)
	Sinter Plant				
	Blast Furances	1908 (oldest) 1971 (newest)		22,435	
	Q-BOP			12,400	
	Rail Mill				
	Plate Mill				
	Bar Mill				
	Hot Strip				
	Cold Sheet				
	Tin Mill				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
U.S. Steel Corp.	Gary Works (Gary, Indiana)	Coke Plant (8 batteries)	Two new batteries (No. 2 & 3) on preheated coal, not in SIP compliance but on 1977 com- pliance schedule; six other batteries without pushing emissions equipment, under NOV and not on schedule.
		Sinter Plant (2 plants, 5 lines)	In violation of stack process weight in SIP and under NOV for windbox exhaust.
		Blast Furnace Shop (13 furnaces)	In violation of process weight SIP for casthouse.
		Q-BOP Shop (3 vessels)	In compliance with schedule.

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
U.S. Steel, Gary Works Gary, IN IN0000281		X	Failed to install treat- ment facilities	Grand Calumet River WQ Limited	Wastes from blast furnace not meet- ing BPT	Compliance for blast furnace control pro- jected for 10/80

REGION: V

COMPANY: U.S. Steel Corp.

PLANT: Duluth Works

LOCATION: Duluth, Minn.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Coke	Coke Plant (2 batteries)	1915	1950 (oldest) 1952 (newest)	1,581	194 (1977 USW membership)

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
U.S. Steel Corp.	Duluth (Minnesota)	Coke Plant (2 batteries)	In SIP violation; on compliance schedule; to shut down in 1980.

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
U.S. Steel Corp. Duluth Works Duluth, MN MN0002887	X			St. Louis River Effluent Limited	Have controls to meet BPT.	

REGION: V

COMPANY: U.S. Steel Corp.

PLANT: Lorain-Cuyahoga Works-Central Furnaces Plant

LOCATION: Cleveland, OH

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Pig Iron	Blast Furnaces (2 furnaces)	1954		1,234	1,419 (1977 USW Membership)

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
U.S. Steel Corp. Central Furnace Cleveland, OH OH0002143		X	Small 2 furnace operations Under review. Still in adjudication in Sixth Circuit Court. State issued permit with ECSL & EPA objected for bad faith violation of 7/1/77 BPT deadline.	Cuyahoga River Effluent/Water Quality	No controls for meeting BPT. Prob- lem with blast furnaces.	Compliance not likely before 1980-81.

REGION: v

COMPANY: U.S. Steel Corp.

PLANT: Lorain-Cuyahoga Works-Cuyahoga Plant

LOCATION: Cleveland, OH

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Rods, Hot Strips, Cold Sheets, Galvanized Sheets, Wire, Galvanized Wire, Welded Wire Fabric, Cold Finished Bars	Rod Mill Hot Strip Mill Cold Sheet Mill Wire Mill Pickling and Galvanizing Lines				1,419 (1977 USW membership)

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
U.S. Steel Cuyahoga Works Cleveland, OH OH0002160	X			Cuyahoga River Effluent Limited	Meeting BPT	

REGION: V

COMPANY: U.S. Steel Corp.

PLANT: Lorain-Cuyahoga Works-Lorain Plant

LOCATION: Lorain, Ohio

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Cold Bars, Pipe, Rod, Hot Strip, Cold Sheet, Galvanized Sheet, Wire, Galvanized Wire	Coke Plant	1917	1955 (oldest)	4,468	10,200 (whole plant - 1973)
	Sinter Plant		1970 (newest)	1,132	
	Blast Furnaces			8,000	6,205 (1977 USW membership_
	BOF			7,700	
	Blooming Mills				
	Bar Mills				
	Pipe Mill				
	Rod Mill				
	Hot Strip Mill				
	Cold Sheet Mill				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
U.S. Steel Corp.	Lorain Works North East Ohio)	Coke Plant (7 batteries)	In SIP violation; NOV; no agreement to comply.
		Sinter Plant (1 line)	In SIP violation; NOV issued; . no schedule yet.
		Blast Furnace Shop (5 furnaces)	In violation due to casthouse fugitive; no NOV issued.
		BOF (2 vessels)	Primary emissions in compliance; in violation due to fugitive emissions; no schedule for abatement.

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
U.S. Steel Corp. Lorain, OH OH0001562		X	Failed to install treatment facilities.	Black River Water Quality Limited	Full integrated steel mill with no controls to meet BPT. Given 316 thermal allowance.	Compliance not until 1981.

REGION: v

COMPANY: U.S. Steel Corp.

PLANT: Youngstown Works

LOCATION: Youngstown, Oh.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Bars, Strips	Blast Furnaces (4)	1901 (Oldest) 1909 (Newest)		4,708	5,400 (whole plant- 1973)
	Sinter Plant				
	Open Hearth (14)			4,700	4,446 (1977 USW membership)
	Rolling Mills				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plants</u>	<u>Facility</u>	<u>Compliance Status</u>
U.S. Steel Corp.	Youngstown Works (Ohio & McDonald Works) Youngstown, Ohio	BF (4 furnaces)	In violation due to casthouse fugitives; no equipment, schedule, or NOV.
		Sinter Plant (1 line)	In violation with SIP. Current' EPA civil action against sin- tering violation.
		Open Hearth Shop (14 furnaces)	In violation with SIP. Part of current EPA civil action. U.S. Steel has agreement with State of Ohio not to operate more than 10 furnaces at any time, which U.S. Steel abides by.

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
U.S. Steel Corp. Youngstown, OH OH0063215 (McDonald Works)		X	No effective permit. Ad.- judicatory Hearing resolved reached agreement with OH & PA but can't issue permit until OH revises WQS some- time in Nov. 1977. Third Circuit Court reversed Mahoning/Train settlement case on 9/19/77.	Mahoning River Water Quality Limited	Have controls but won't meet BPT.	Probably 2 or 3 years.

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
U.S. Steel Corp. Youngstown, OH OH0011916 (Ohio Works)		X	No effective permit. Ad- judicatory Hearing resolved reached agreement with OH & PA but can't issue permit until OH revised WQS some- time in Nov. 1977. Third Circuit Court reversed Mahoning/Train case on 9/19/77.	Mahoning River Water Quality Limited	No controls to meet BPT.	No agreement reached.

REGION: III

COMPANY: U.S. Steel Corp.

PLANT: Christy Park Works

LOCATION: McKeesport, Pa.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Commercial and Ordnance Products, Pressure Vessels, Seamless Tubing, Bombs and War Heads for Missiles	Forging				3,597 (1977 USW membership)

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
U.S. Steel - Christy Park PA0004081	X			Youghiogheny River		Finishing Mill

REGION: III

COMPANY: U.S. Steel Corp.

PLANT: Clairton Works

LOCATION: Clairton, Pa.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Rolling Mills	Coke Plant (19 batteries)	1918	1947 (oldest) 1975 (newest)	23,300	4,500 (whole plant-1973)
	Blast Furnace (1 furnace)	1930		950	4,206 (1977 USW membership)

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
U.S. Steel Corp.	Clairton Works	Coke Plant (19 coke batteries)	In violation; on compliance schedule through 1987 calling either for shut down, rehabilitation, or replacement with new batteries. Most of schedule past 1979. Currently, EPA, Pennsylvania and Allegheny Country performing new source review on first of four new batteries.
		2 Coal Fired Boilerhouses	Violation of SIP for particulates; on local C.S. through 1978 for ESP's.
		COG Combustion	In compliance with SIP after installation (by 1975) of desulfurization equipment.
		1 Blast Furnace	Down

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
U.S. Steel - Clairton Clairton, PA PA0004472		X	EqJL Denied Enforcement Action Pending	Monongahela R.	4500 est. employ- ment 20,000 T/dy prod. capacity	Coke Plant-solids carry over-out Boiler House - 6/79 Pitts. - 10/31/79 B.F.- shut down Rolling - 4/30/80

REGION: III

COMPANY: U.S. Steel Corp.

PLANT: Edgar Thomson - Irvin Works

LOCATION: Braddock, Pa.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Hot Strips, Cold Sheet, Tin Sheet, Galvanized Sheet	Sinter Plant (1 line)				7,200 (whole plant-1973)
	Blast Furnaces (3 furnaces)	1883 (oldest) 1943 (newest)		8,600	1,982 (1977 USW membership)
	BOF Shop (2 vessels)			7,750	
	Hot Strip Mill				
	Cold Sheet Mill				
	Tin Mill				
	Galvanizing Line				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
U.S. Steel Corp.	Edgar-Thomson Irvin Works (Monongahela Valley)	Sinter Plant (1 line)	Down; not equipped for SIP compliance.
		Blast Furnace Shop (3 furnaces)	In compliance on top gas and in violation on casthouse fugitive emissions. Not under NOV; No compliance schedule.
		BOF Shop (2 vessels)	In compliance on main stack; in violation on fugitives; USSC had undertaken partial program of installing hot metal transfer hood/baghouse and changing operating tech- niques to reduce emissions.

WATER COMPLIANCE STATUS

WATER MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
U.S. Steel - Edgar Thompson Works Braddock, PA PA0004073		X	ECSL Denied Enforcement Action Pending	Monongahela River	Finishing-terminal treatment - in	B.F. - recycling 9/3-/81 B.O.F. - all equip. in 11/1/79 Pickling Cold Rolling 3/79 Hot Strip - filtra- tion 5/80 Slab Mill - filtra tion recycle 5/80

REGION: III

COMPANY: U.S. Steel Corp.

PLANT: Fairless Works

LOCATION: Fairless Hills, Pa.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Cold Sheet, Tin Plate, Pipe, Wire	Coke Plant (2 batteries)	1952	1952 (oldest) 1953 (newest)	3,000	7,600 (whole plant-1976)
	Blast Furnaces (3 furnaces)	1952 (oldest) 1957 (newest)		8,206	5,594 (1977 USW membership)
	Open Hearth (11 furnaces)			10,200	
	Sinter Plant (2 lines)			7,200	
	Sheet & Tin Mill				
	Pipe Mill				
	Wire & Wire Products				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
U.S. Steel Corp.	Fairless Works (Eastern PA)	Coke Plant (2 coke batteries)	In violation of State & EPA standards; under NOV; EPA/USSC discussions have not produced compliance schedule; PA. changed coke regulations in 1977 making them more specific. These will be submitted to EPA for SIP revision approval; U.S. Steel maintains it need not put in abatement equipment due to ambient air quality attainment near plant.
		Blast Furnaces Shop (3 furnaces)	In violation of SIP; under NOV for casthouse emissions; no equipment; no compliance schedule.
		Open Hearth Shop (11 furnaces)	Under EPA NOV due to both stack and fugitives; 113 Conference has produced no commitments from company.
		Sinter Plant (2 lines)	In SIP violation; under NOV; no adequate equipment now; no compliance schedule.

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
U.S. Steel Corp. Fairless Works PA0013463		X	Under Appeal		Integrated Mill Rod Mill-Lagoon-in	D.F. once through going to recycle Anticipate AOL 4/1/81 Coke } Terminal Treat Pickling } ment Works Cooling } 200 mgd Anticipate AOL 6/1/80

REGION: III

COMPANY: U.S. Steel

PLANT: Homestead Works

LOCATION: Homestead, Pa.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Plate, Wheels, Structurals, Forgings, and Axles.	Sinter Plants (3 lines)				8,200 (whole plant - 1976)
	Blast Furnaces				6,432 (1977 USW membership)
	Open Hearths (11 furnaces)			9280	
	Slab & Plate				
	Bloom & Struct.				
	Forging				
	Wheel & Axle				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
U.S. Steel Corp.	Homestead Works (Monongahela Valley)	Sinter Plant (Carrie, 1 line)	Down; unequipped for compliance.
		Sinter Plant (Saxenburg; 3 lines)	In violation of windbox SIP and on Pennsylvania schedule (for 1980) by windbox gas recirculation.
		2 Blast Furnaces	Top gas compliance; casthouse fugitives in SIP violation; NOV; no C.S.; no equipment.
		Open Hearth Shop (11 furnaces)	In violation on fugitive and stack emissions. Five ESP's exist but have been tested at twice SIP standard; under NOV; company contends emissions at both B.F. and O.H. shops are insignificant and hence, under SIP, are not violations; O.H. stack test planned for November 1977.

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
U.S. Steel - Homestead Homestead, PA PA0004481		X	Adjudicatory Hearing ECL Denied		10,000 est employment	B.P. 344 9/31/81 B.P. 647 Down (1) Banked (1) Slab & Plate filtration & recycle 6/30/80

REGION: III

COMPANY: U.S. Steel Corp.

PLANT: National-Duquesne Works

LOCATION: McKeesport/Duquesne, Pa.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Rolling Mills, Pipe Mills	Blast Furnaces (4)	1896 (oldest) 1963 (newest)		6750	6,600 (whole plant - 1973)
	BOF Shop (2 vessels)			7500	3,062 (1977 USW membership)
	EAF Shop (5 vessels)			1035	
	Pipe Mills				
	Rolling Mills				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
U.S. Steel Corp.	National Duquesne Works (Monongahela Valley)	Sinter Plant (1 line)	Down
		Blast Furnace Shop (1)	Down
		Blast Furnace Shop (4)	In SIP violation; no NOV; problem is casthouse emissions.
		BOF Shop (2 vessels)	SIP violations due to fugitives; on local compliance schedule for December 1976; not under NOV.
		EAF Shop (5 vessels)	Compliance via whole building evacuation.

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
U.S. Steel - Nat'l Duquesne, McKeesport PA0004464		X	ECSL Denied Enforcement Action Pending	Monongahela River		B.F. 9/30/81 Primary Mill-recycle 6/30/80 Bar Mills-filtration 6/30/80 B.O.F. 1/1/80

REGION: VI

COMPANY: U.S. Steel Corp.

PLANT: Texas Works

LOCATION: Baytown, Texas

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Sheared Plate	Plate Mill				780 (whole plant-1973) 763 (1977 USW membership)

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
U.S. Steel Corp. Daytown, TX TX0007760	X					

REGION: VIII

COMPANY: U.S. Steel Corp.

PLANT: Geneva Works

LOCATION: Provo, Utah

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Structurals, Plate, Hot Strip, Cold Sheet	Coke Plant (4 batteries)	1944		3,558	7,000 (whole plant - 1973)
	Blast Furnaces (3 furnaces)	1944		5,700	4,386 (1977 USW membership)
	Open Hearths (10)			8,000	
	Slab & Blooming Mill				
	Structural Plate & Strip Cold Sheet				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
U.S. Steel Corp.	Geneva Works (Provo, Utah)	Coke Plant (4 batteries)	There is no enforceable SIP for sources at this plant as a result of unresolved Section 307 suit challenging SIP; revised proposal for SIP being developed; there is no effective control equipment at plant now.
		Sinter Plant (2 lines)	SIP compliance status questionable; needs confirming test; only inefficient scrubber in place now; no NOV.
		Blast Furnace Shop (13 furnaces)	No equipment; no NOV; no compliance schedule for casthouse emissions; 307 suit pertains here, too.

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
U.S. Steel Corp. Geneva Works Geneva, UT UT0000361	X			Utah Lake	Meeting BPT for phenols & cyanides Meeting BPT for oil grease & solids	

REGION: V

COMPANY: WHEELING-PITTSBURGH STEEL

PLANT: MARTINS FERRY PLANT

LOCATION: MARTINS FERRY, OH.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
GALVANIZED SHEET & COILS	GALVANIZING LINE				823 (1977 USW membership)

WATER COMPLIANCE STATUS

. MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Wheeling-Pittsburg Martins Ferry, OH OH0011339		X	Failed to install treatment facilities.	Ohio River Effluent Limited	Not meeting BPT.	No compliance schedule established

REGION: V

COMPANY: WHEELING-PITTSBURGH STEEL

PLANT: YORKVILLE PLANT

LOCATION: YORKVILLE, OH.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
TIN SHEET & COILS	TIN MILL				990 (1977 USW membership)

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Wheeling-Pittsburgh Yorkville, OH OH0011371		X	Failed to install treat- ment facilities.	Ohio River Effluent Limited	Not meeting BPT.	No compliance date established

REGION: III

COMPANY: WHEELING-PITTSBURGH STEEL

PLANT: ALLENPORT WORKS

LOCATION: ALLENPORT, PA.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
HOT STRIP, COLD SHEET, SEAMLESS TUBE, FORGED TUBULAR PRODUCTS	HOT STRIP MILL COLD SHEET MILL TUBE MILL FORGE				2,596 (1977 USW membership)

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Wheeling - Pittsburgh Allenport, PA PA0001564		X	Adjudicatory Hearing ECL Pending			

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Wheeling - Pittsburgh Allenwood PA0001562		X	Under Appeal EGL Requested Financial Problems	Monongahela R.		Finishing Hot/Cold Rolling 4/1/81 Pickling/Cooling - in

REGION: III

COMPANY: WHEELING-PITTSBURGH STEEL

PLANT: MONESSEN WORKS

LOCATION: MONESSEN, PA.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
COKE, COAL CHEMICALS, PIG IRON, BILLETS	COKE PLANT	1942	1942 (oldest)	1,440	2,600 (whole plant - 1976)
	SINTER PLANT		1956 (newest)	1,000	
	BLAST FURNACE	1913 (oldest)		4,400	1,867 (1977 USW membership)
	BOF	1948 (newest)		4,800	
	BLOOMING MILL				
	BILLET MILL				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Wheeling-Pittsburgh Steel	Monessen, PA	Coke Plant (2 batteries)	In SIP violation; under NOV; two old batteries need to be rehabilitated to comply; smaller one to be shut down; larger one not under schedule; SIP requires stage, charging, pushing; coke- oven gas, operating and main- tenance procedures for leakage stack and topside control.
		Sinter Plant (1 line)	In SIP violation and under NOV, old insufficient ESP in place; new gas cleaner is needed.
		Blast Furnace Shop (3 furnaces)	In violation of SIP due to cast- house fugitives; no NOV on schedule.
		BOF SHOP (2 vessels)	In compliance; had installed reladling equipment for fugitive control.

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Wheeling - Pittsburgh Monessen, PA PA0001554		X	Appeal Resolved ECSL Pending	Monongahela R.	Coke - Physical Chem - in B.F. - Filtration & Recycle - in B.O.F. - in	Rolling & Finishing Compliance Schedule 4/82

REGION: III

COMPANY: Wheeling-Pittsburgh

PLANT: _____

LOCATION: Beechbottom, W.V.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
NO INFORMATION					

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Wheeling - Pitts. Beechbottom WV0004511	X			Ohio River	Finishing - in	

REGION: III

COMPANY: WHEELING-PITTSBURGH STEEL

PLANT: BENWOOD PLANT

LOCATION: BENWOOD, W.VA.

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
TUBING, PIPE, GALV. PIPE	PIPE & TUBE MILL				741 (1977 USW membership)

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Wheeling-Pittsburgh Benwood, WV WV0004529		X	Appeal Resolved ECSL under review	Ohio River	Pipe & Tube Mill - in	Pickling & Cooling - out AOL 9/30/81

REGION: III & V

COMPANY: WHEELING-PITTSBURGH STEEL

PLANT: STEUBENVILLE PLANT

LOCATION: FOLLANSBEE, W.VA., &
EAST STEUBENVILLE, W.VA.
STEUBENVILLE, OHIO
MINGO JUNCTION, OHIO

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
COKE, COAL CHEMICALS, PIG IRON, HOT STRIPS, COLD SHEET, TIN SHEET	COKE PLANT	1917		4,500	650 (Whole Plant - 1976)
	SINTER PLANT			1,500	
	BLAST FURNACES (5)	1903 (oldest) 1950 (newest)		7,300	5,153 (1977 USW Membership)
	BOF (2)			8,550	
	SLABBING MILLS (2)				
	HOT STRIP MILL				
	COLD SHEET MILL				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Wheeling-Pittsburgh Steel	Follansbee, W VA.	Coke Plant (5 batteries)	One new battery (1976) in violation due to new equipment failures and procedural problems on charging; EPA waiting until early 1978 to reassess status. Four older batteries in SIP violation and under NOV; 2 are in partial rebuild stage now but will not be in compliance when done due to lack of pushing equipment; battery to go down when new battery achieves first production; EPA referred case due to non-compliance and lost first round; still in litigation. Company refuses to put in compliance equipment.
		Sinter Plant (1 line)	Status unknown; stack test compliance needed; high visible emissions at times, in conjunction with company public statements, (February 1977) of past equipment troubles indicate possible non-compliance.

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Wheeling-Pittsburgh Steel	Steubenville, OH (operated in conjunction with Follansbee)	Blast Furnace Shop (3 operating)	In SIP violation due to cast- house fugitive emissions; no NOV, equipment, or schedule.
		BOF Shop (2 vessels)	In SIP violation due to fugi- tives; 1979 compliance schedule in effect.

WATER COMPLIANCE STATUS

Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Wheeling-Pittsburgh Follansbee, WV. WV0004499	X		Appeal Resolved		Coating Mill	
Wheeling-Pittsburgh Follansbee, WV. WV0004502	X				Coke Works - in Biological treatment	

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Wheeling-Pittsburgh (South Stubenville Mill) Mingo JCT, OH OH0011355		X	Failed to install treat- ment facilities.	Ohio River Effluent Limited	No equipment has been installed for achieving BPT.	No date for compliance established.

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Wheeling-Pittsburgh (North Stubenville Mill) Stubenville, OH OH0011347		X	Failed to install treat- ment facilities.	Ohio River Effluent Limited	No equipment has been installed for achieving BPT.	None scheduled

REGION: V

COMPANY: WISCONSIN STEEL - OWNED BY ENVIRODYNE

PLANT: _____

LOCATION: CHICAGO, ILLINOIS

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
COKE, COAL CHEMICALS, PIG IRON, TUBE ROUNDS, STRUCTURAL SHAPES, BARS - HOT ROLLED COAL FINISHED	COKE PLANT	1919	1952 (oldest) 1968 (newest)	1,000	
	SINTER PLANT			540	
	BLAST FURNACES	1908 (oldest) 1930 (newest)		2,400	
	BOF			3,480	
	CONTINUOUS CASTING				
	BLOOMING MILL				
	BILLET MILL				
	BAR & PLATE MILL				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Wisconsin Steel	Chicago, Illinois	Coke Plant (1 battery)	In SIP violation due to charging and doors; under EPA compliance order by July 1979; had installed pushing controls (shed/wet ESP) in 1976.
		Blast Furnace Shop (3 furnaces)	In SIP violation; no equipment, NOV, or schedule.
		BOF Shop (2 vessels)	In SIP violation; on EPA schedule for upgrading of system and for obtaining fugitive controls by 1979.

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Envirodyne, Inc.. Wisconsin Steel Chicago, IL IL0001660		X	Failed to install treatment facilities. Effluent violations	Calumet River Illinois Effluent Limits	Combined treatment system-recycle with blow down. Blown down not in compliance. Problem with wastes from blast furnace.	Awaiting court decision as to compliance schedule.

REGION: V

COMPANY: Youngstown Sheet & Tube Co.

PLANT: Indiana Harbor Works

LOCATION: East Chicago, IN

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Bar	Coke Plant (2 batteries operating)	1919	1952 (oldest) 1961 (newest)	4,000	8,471 (1977 USW Membership)
Strip-hot	Sinter Plant (1 line)			4,000	
Sheet-tin					
Sheet-cold reduced	Blast Furnace Shop (4 furnaces)	1917 (oldest) 1967 (newest)		10,700	
Pipe & Tube	Open Hearth Shop (8 furnaces)			7,600	
	BOF Shop (2 vessels)			10,500	
	Hot Rolling Tin Plate Line				
	Galvanizing Line (2 continuous)				
	Pipe & Tube Mill				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Youngstown Sheet and Tube	Indiana Harbor Plant (Northwest Indiana)	Coke Plant (2 operating batteries)	Both in SIP violation; under NOV; on partial 1980 equip. schedules but batteries are in charging violation due to non-effective charging procedures now.
		Sinter Plant (1 line)	In SIP violation; on 1979 schedule to replace ESP with venturi scrubber.
		Blast Furnace Shop (4 furnaces)	In SIP violation due to casthouse emissions; no NOV; no schedule; no equipment.
		Open Hearth Shop (8 furnaces)	Stack-compliance; roof monitor emissions exist but compliance status unknown.
		BOF Shop (2 vessels)	In SIP violation due to fugitive emissions; NOV issued; no schedule; negotiations still underway.

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Youngstown Steel & Tube East Chicago, IN IN0000205	X		Have permit. In com- pliance	Grand Calumet River WQL	Have controls to meet BPT.	

REGION: V

COMPANY: Youngstown Sheet & Tube Co.

PLANT: Brier Hill Works

LOCATION: Youngstown, OH

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Intermediates:	Coke Plant (?)				1692 (1977 USW Membership)
Blooms and Billet	Blast Furnace Shop (2 furnaces)	1918		1,055	
	Open Hearth Shop (11 furnaces)			6,144	
	Blooming Mill				
	Billet Mill				

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Youngstown Sheet and Tube	Brier Hill Plant (Mahoning, OH)	Blast Furnace Shop (2 furnaces)	Down
		Open Hearth Shop (11 furnaces)	To receive Campbell hot metal. In SIP violation and on EPA order to control reladling fugitive by December 1978 and stacks by 1979.

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Youngstown Sheet & Tube Youngstown, OH OH0011312 (Brier Hill)		X	Failed to install treat- ment facilities.	Mahoning River W.Q.L.	No controls to meet BPT.	No agreement reached.

REGION: V

COMPANY: Youngstown Sheet & Tube Co.

PLANT: Campbell Works

LOCATION: Campbell, Mahoning Co., OH

PROCESS INFORMATION

Products	Facilities	Originally Constructed	Last Rebuild	Production TPD Capacity	Estimated Employment
Bar	Coke Plant (3 batteries)	1916	1954 (oldest) 1958 (newest)	3,816	6,216 (1977 USW membership)
Sheet-cold reduced	Sinter Plant (1 line)				
Sheet-cold finished	Blast Furnace Shop (4 furnaces)	1908 (oldest) 1913 (newest)		5,400	
Pipe & Tube	Open Hearth Shop (12 furnaces)			13,908	
Track Spikes					

AIR COMPLIANCE STATUS

<u>Company</u>	<u>Plant</u>	<u>Facilities</u>	<u>Compliance Status</u>
Youngstown Sheet and Tube	Campbell Plant (Mahoning, OH)	Coke Plant (3 batteries)	In SIP violation; YS&T wishes to keep all 3 running; no equip- ment schedule and in litigation now.
		Blast Furnace Shop (4 furnaces)	In SIP violation due to casthouse emissions; no NOV or schedule.
		Sinter Plant	Down September 1977
		Open Hearth Shop (12 furnaces)	Down September 1977

WATER COMPLIANCE STATUS

MAJOR IRON AND STEEL FACILITIES

REGION Plant/Permit Number	COMPLIANCE STATUS		REASON FOR NONCOMPLIANCE	RECEIVING WATER EFFLUENT OR WATER QUALITY LIMITED	EXISTING CONTROLS	COMPLIANCE SCHEDULE
	In	Out				
Youngstown Sheet & Tube Youngstown, OH OH0011321 (Campbell Works)		X	Failed to install treat- ment facilities.	Mahoning River W.Q.L.	No controls to meet BPT.	No agreement reached.
Youngstown Sheet & Tube Youngstown, OH OH0063207 (Struthers Works)		X				