

AR-9

Received

Application No. OH0000957

Issue Date: September 27, 2001

Effective Date: November 1, 2001

Expiration Date: October 31, 2006

RECEIVED
OCT 04 2001

Ohio Environmental Protection Agency
Authorization to Discharge Under the
National Pollutant Discharge Elimination System

NPDES SUPPLY &
TECHNICAL ASSIST BR.
EPA, REGION 5

In compliance with the provisions of the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et. seq., hereinafter referred to as the "Act"), and the Ohio Water Pollution Control Act (Ohio Revised Code Section 6111),

Mayer

LTV Steel Company, Inc.

is authorized by the Ohio Environmental Protection Agency, hereinafter referred to as "Ohio EPA," to discharge from the LTV Steel Company, Inc. Cleveland Works wastewater treatment works located at 3100 East 45th Street, Cleveland, Ohio, Cuyahoga County and discharging to the Cuyahoga River in accordance with the conditions specified in Parts I, II, III, IV, V and VI of this permit.

This permit is conditioned upon payment of applicable fees as required by Section 3745.11 of the Ohio Revised Code.

This permit and the authorization to discharge shall expire at midnight on the expiration date shown above. In order to receive authorization to discharge beyond the above date of expiration, the permittee shall submit such information and forms as are required by the Ohio EPA no later than 180 days prior to the above date of expiration.

Christopher Jones

Christopher Jones
Director

Total Pages: 90

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 3ID00003601. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 601 - Final

Effluent Characteristic Parameter	Discharge Limitations						Monitoring Requirements			
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00400 - pH - S.U.	-	-	-	-	-	-	-	2/Week	Grab	All
00515 - Residue, Total Dissolved - mg/l	-	-	-	-	-	-	-	2/Week	24hr Composite	All
00530 - Total Suspended Solids - mg/l	-	-	-	-	-	-	-	2/Week	24hr Composite	All
00550 - Oil and Grease, Total - mg/l	-	-	-	-	-	-	-	2/Week	Grab	All
00719 - Cyanide, Free - mg/l	-	-	-	-	-	-	-	2/Week	Grab	All
01094 - Zinc, Total Recoverable - ug/l	-	-	-	-	-	-	-	2/Week	24hr Composite	All
01114 - Lead, Total Recoverable - ug/l	-	-	-	-	-	-	-	2/Week	24hr Composite	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	Continuous	All
82090 - Total Toxic Organics - ug/l	800	-	-	-	-	-	-	1/Month	Grab	All

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 3ID00003602. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 602 - Final

Effluent Characteristic Parameter	Discharge Limitations						Monitoring Requirements			
	Concentration Specified Units		Loading* kg/day				Measuring Frequency	Sampling Type	Monitoring Months	
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly				Monthly
00400 - pH - S.U.	-	-	-	-	-	-	-	2/Week	Grab	All
00515 - Residue, Total Dissolved - mg/l	-	-	-	-	-	-	-	2/Week	24hr Composite	All
00530 - Total Suspended Solids - mg/l	-	-	-	-	-	-	-	2/Week	24hr Composite	All
00550 - Oil and Grease, Total - mg/l	-	-	-	-	-	-	-	2/Week	Grab	All
00719 - Cyanide, Free - mg/l	-	-	-	-	-	-	-	2/Week	Grab	All
01094 - Zinc, Total Recoverable - ug/l	-	-	-	-	-	-	-	2/Week	24hr Composite	All
01114 - Lead, Total Recoverable - ug/l	-	-	-	-	-	-	-	2/Week	24hr Composite	All
34696 - Naphthalene - ug/l	-	-	-	-	-	-	-	1/Quarter	24hr Composite	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	Continuous	All

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 3ID00003603. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Calculated Outfall/Station - 603 - Final

Effluent Characteristic Parameter	Discharge Limitations						Monitoring Requirements			
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00515 - Residue, Total Dissolved - mg/l	-	-	-	-	-	-	-	2/Week	Calculated	All
00530 - Total Suspended Solids - mg/l	-	-	-	-	1284	-	632	2/Week	Calculated	All
00550 - Oil and Grease, Total - mg/l	-	-	-	-	672	-	527	2/Week	Calculated	All
00719 - Cyanide, Free - mg/l	-	-	-	-	-	-	-	2/Week	Calculated	All
01094 - Zinc, Total Recoverable - ug/l	-	-	-	-	17.7	-	7.88	2/Week	Calculated	All
01114 - Lead, Total Recoverable - ug/l	-	-	-	-	9.01	-	3.40	2/Week	Calculated	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	Calculated	All

* Effluent loading limitations for Oil and Grease (average) and Zinc as allowed by the Federal Iron and Steel Manufacturing Categorical Regulations are based on the following average production values:

OUTFALL 3ID00003601

84" Hot Strip Mill 12,871 tons/day
LSE Electro galvanizing 1,392 tons/day (0.5054 MGD)
84" Pickle Line (1 fume scrubber) 4,726 tons/day
60" Electro zinc Line 456 tons/day (0.3485 MGD)

OUTFALL 3ID00003602

84" Tandem Mill 4877 tons/day
84" Temper Mill 3734 tons/day

If these figures are incorrect or decrease by more than 20% each, the permittee shall notify the Ohio EPA immediately.

This is a calculated station. It does not actually exist. Data to be reported are the summation of outfalls 3ID00003601 and 3ID00003602. Concentrations shall be calculated using the total load for a particular parameter and the combined flow rate.

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 3ID00003604. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 604 - Final

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00401 - pH, Maximum - S.U.	-	-	-	-	-	-	-	1/Day	Continuous	All
00402 - pH, Minimum - S.U.	-	-	-	-	-	-	-	1/Day	Continuous	All
00530 - Total Suspended Solids - mg/l	-	-	-	-	660	-	219	1 / 2 Weeks	24hr Composite	All
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	85.6	-	62.4	1/Week	24hr Composite	Summer
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	211	-	81.6	1/Week	24hr Composite	Winter
00720 - Cyanide, Total - mg/l	-	-	-	-	14.8	-	7.40	1 / 2 Weeks	Grab	All
01094 - Zinc, Total Recoverable - ug/l	-	-	-	-	2.83	-	1.00	1/Week	24hr Composite	All
01114 - Lead, Total Recoverable - ug/l	-	-	-	-	2.22	-	.740	1/Week	24hr Composite	All
11123 - Manganese, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
32730 - Phenolic 4AAP, Total - ug/l	-	-	-	-	.493	-	.246	1/Month	24hr Composite	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	Continuous	All

Effluent loading limitations for Total Suspended Solids, Lead and Phenolics as allowed by the Federal Iron and Steel Manufacturing Categorical Regulations are based on an average production of 4581 tons/day at the C5 Blast Furnace and 4729 tons/day at the C6 Blast Furnace. If these figures are incorrect or decrease by more than 20% each, the permittee shall notify the Ohio EPA immediately.

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 31D00003613. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 613 - Final

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00310 - Biochemical Oxygen Demand, 5 Day - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
00335 - Chemical Oxygen Demand (Low Level) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
00400 - pH - S.U.	-	-	-	-	-	-	-	1/Month	Grab	All
00530 - Total Suspended Solids - mg/l	45	-	-	30	-	-	-	1/Week	Grab	All
00550 - Oil and Grease, Total - mg/l	-	-	-	-	-	-	-	1/Week	Grab	All
00945 - Sulfate, (SO4) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Month	24hr Total Estimate	All

Sampling shall be conducted when discharging. If no discharge occurs for the entire month state this in the remarks section and leave the data area blank. Signature still required.

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is allocated the following loadings in accordance with the following requirements for outfall 3ID00003621.

Table - Final Outfall - 621 - Final

Effluent Characteristic Parameter	Discharge Limitations						Monitoring Requirements			
	Concentration Specified Units		Loading* kg/day				Measuring Frequency	Sampling Type	Monitoring Months	
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly				Monthly
00400 - pH - S.U.	-	-	-	-	-	-	-	When Disch.	Grab	All
00530 - Total Suspended Solids - mg/l	-	-	-	-	257	-	85.5	When Disch.	24hr Composite	All
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	68.5	-	50.0	When Disch.	24hr Composite	Winter
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	28.8	-	17.6	When Disch.	24hr Composite	Summer
00720 - Cyanide, Total - mg/l	-	-	-	-	5.75	-	2.88	When Disch.	Grab	All
01051 - Lead, Total (Pb) - ug/l	-	-	-	-	0.865	-	0.288	When Disch.	24hr Composite	All
01092 - Zinc, Total (Zn) - ug/l	-	-	-	-	1.14	-	0.378	When Disch.	24hr Composite	All
11123 - Manganese, Total Recoverable - ug/l	-	-	-	-	-	-	-	When Disch.	24hr Composite	All
32730 - Phenolic 4AAP, Total - ug/l	-	-	-	-	0.192	-	0.096	When Disch.	24hr Composite	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	When Disch.	24hr Total	All

Discharges from this outfall are not authorized under this permit. If the permittee wishes to restart discharges from the blast furnace operations, the permittee shall apply to the Ohio EPA for a modification of this permit under Part III, DISCHARGE CHANGES, of this permit.

Effluent loading limitations for Total Suspended Solids, Lead and Phenolics as allowed by the Federal Iron and Steel Manufacturing Categorical Regulations are based on an average production of 3627 tons/day for the C1 Blast Furnace. If these figures are incorrect or decrease by more than 20% each, the permittee shall notify the Ohio EPA immediately.

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 3ID00003622. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 622 - Final

Effluent Characteristic Parameter	Discharge Limitations						Monitoring Requirements			
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00400 - pH - S.U.	-	-	-	-	-	-	-	1/Day	Continuous	All
00515 - Residue, Total Dissolved - mg/l	-	-	-	-	-	-	-	2/Week	24hr Composite	All
00530 - Total Suspended Solids - mg/l	-	-	-	-	-	-	-	2/Week	24hr Composite	All
00550 - Oil and Grease, Total - mg/l	-	-	-	-	-	-	-	2/Week	Grab	All
01051 - Lead, Total (Pb) - ug/l	-	-	-	-	-	-	-	2/Week	24hr Composite	All
01092 - Zinc, Total (Zn) - ug/l	-	-	-	-	-	-	-	2/Week	24hr Composite	All
11123 - Manganese, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	24hr Total	All

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee shall report discharges from outfall 3ID00003632 in accordance with the following limitations and monitoring requirements. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Fictitious Outfall/Station - 632 - Final

Effluent Characteristic Parameter	Discharge Limitations						Monitoring Requirements			
	Concentration Specified Units		Loading* kg/day				Measuring Frequency	Sampling Type	Monitoring Months	
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly				Monthly
00400 - pH - S.U.	-	-	-	-	-	-	-	1/Day	Calculated	All
00515 - Residue, Total Dissolved - mg/l	-	-	-	-	-	-	-	2/Week	Calculated	All
00530 - Total Suspended Solids - mg/l	-	-	-	-	186	-	79.4	2/Week	Calculated	All
00550 - Oil and Grease, Total - mg/l	-	-	-	-	79.4	-	26.6	2/Week	Calculated	All
01094 - Zinc, Total Recoverable - ug/l	-	-	-	-	1.59	-	0.531	2/Week	Calculated	All
01114 - Lead, Total Recoverable - ug/l	-	-	-	-	1.19	-	0.397	2/Week	Calculated	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	Calculated	All

This is a calculated station. It does not actually exist. Data to be reported are the summation of outfalls 3ID00003622 and 3ID00003642. Concentrations shall be calculated using the total load for a particular parameter and the combined flow rate.

Effluent loading limitations for Suspended Solids, Oil and Grease, Lead and Zinc as allowed by the Federal Iron and Steel Manufacturing Categorical Regulations are based on the following average production values:

Push-Pull Pickle Line (1 fume scrubber) - 2425 tons/day

If these figures are incorrect or decrease by more than 20% each, the permittee shall notify the Ohio EPA immediately.

During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is allocated the following loadings for outfall 3ID00003632. The values below are not authorized discharge limits, but reflect loading allocated to LTV in the event that these operations resume in the future. If the permittee wishes to restart discharges from the BOF, 80" Hot Mill, or Continuous Caster operations, the permittee shall apply to the Ohio EPA for a modification of this permit under Part III, DISCHARGE CHANGES, of this permit.

Loading kg/day		Daily	Monthly
Parameter			
00530	Total Suspended Solids	2806	1045
00550	Oil&Grease,	648	198
01051	Lead, Total	5.67	1.89
01092	Zinc, Total	8.31	2.77

The effluent loading allocations for Suspended Solids, Oil and Grease, Lead and Zinc as allowed by the Federal Iron and Steel Manufacturing Categorical Regulations are based on the following average production values:

Push-Pull Pickle Line (1 fume scrubber) - 2425 tons/day
 BOF - 6109 tons/day
 80" Hot Strip Mill - 5679 tons/day
 Continuous Casting - 6036 tons/day

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 3ID00003633. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 633 - Final

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00310 - Biochemical Oxygen Demand, 5 Day - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
00335 - Chemical Oxygen Demand (Low Level) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
00400 - pH - S.U.	-	-	-	-	-	-	-	1/Month	Grab	All
00530 - Total Suspended Solids - mg/l	45	-	-	30	-	-	-	1/Month	Grab	All
00550 - Oil and Grease, Total - mg/l	-	-	-	-	-	-	-	1/Week	Grab	All
00945 - Sulfate, (SO4) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Month	24hr Total Estimate	All

Sampling shall be conducted when discharging. If no discharge occurs for the entire month state this in the remarks section and leave the data area blank. Signature still required.

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is required to monitor any discharges from outfall 31D00003642 in accordance with the following requirements. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 642 - Final

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00400 - pH - S.U.	-	-	-	-	-	-	-	When Disch.	Grab	All
00515 - Residue, Total Dissolved - mg/l	-	-	-	-	-	-	-	When Disch.	Grab	All
00530 - Total Suspended Solids - mg/l	-	-	-	-	-	-	-	When Disch.	Grab	All
00550 - Oil and Grease, Total - mg/l	-	-	-	-	-	-	-	When Disch.	Grab	All
01051 - Lead, Total (Pb) - ug/l	-	-	-	-	-	-	-	When Disch.	Grab	All
01092 - Zinc, Total (Zn) - ug/l	-	-	-	-	-	-	-	When Disch.	Grab	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	When Disch.	24hr Total Estimate	All

Discharges from this outfall are not authorized. Sampling shall be conducted daily whenever a discharge occurs.

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 3ID00003643. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 643 - Final

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements			
	Concentration Specified Units		Loading* kg/day					Measuring Frequency	Sampling Type	Monitoring Months	
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly				
00310 - Biochemical Oxygen Demand, 5 Day - mg/l	-	-	-	-	-	-	-	-	1/Month	Grab	All
00335 - Chemical Oxygen Demand (Low Level) - mg/l	-	-	-	-	-	-	-	-	1/Month	Grab	All
00400 - pH - S.U.	-	-	-	-	-	-	-	-	1/Month	Grab	All
00530 - Total Suspended Solids - mg/l	-	-	-	-	-	-	-	-	1/Month	Grab	All
00550 - Oil and Grease, Total - mg/l	-	-	-	-	-	-	-	-	1/Week	Grab	All
00945 - Sulfate, (SO4) - mg/l	-	-	-	-	-	-	-	-	1/Month	Grab	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	-	1/Month	24hr Total Estimate	All

Sampling shall be conducted when discharging. If no discharge occurs for the entire month state this in the remarks section and leave the data area blank. Signature still required.

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

l. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 3ID00003653. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 653 - Final

Effluent Characteristic Parameter	Discharge Limitations						Monitoring Requirements			
	Concentration Specified Units		Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months		
Maximum	Minimum	Weekly	Monthly	Daily	Weekly				Monthly	
00310 - Biochemical Oxygen Demand, 5 Day - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
00335 - Chemical Oxygen Demand (Low Level) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
00400 - pH - S.U.	-	-	-	-	-	-	-	1/Month	Grab	All
00530 - Total Suspended Solids - mg/l	-	-	-	-	-	-	-	1/Day	Grab	All
00550 - Oil and Grease, Total - mg/l	-	-	-	-	-	-	-	1/Week	Grab	All
00945 - Sulfate, (SO4) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Month	24hr Total Estimate	All

Sampling shall be conducted when discharging. If no discharge occurs for the entire month state this in the remarks section and leave the data area blank. Signature still required.

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 3ID00003001. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 001 - Final

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1 / 2 Weeks	Grab	All
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	When Disch.	24hr Total Estimate	All

* Effluent loadings are based upon an average design discharge flow of N/A MGD.

The discharge from this outfall is limited to emergency overflow from the 84" cold mill area noncontact cooling water system, storm water and ground water, during wet weather events only. It shall be free from process wastewater.

Sampling shall be conducted when discharging. If no discharge occurs for the entire month state this in the remarks section and leave the data area blank. Signature still required.

Part I, A. - INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until 36 months after the effective date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 3ID00003002. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 002 - Interim

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1/Week	Grab	All
00515 - Residue, Total Dissolved - mg/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
00530 - Total Suspended Solids - mg/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
00550 - Oil and Grease, Total - mg/l	20	-	-	15	-	-	-	1/Week	Grab	All
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
00719 - Cyanide, Free - mg/l	-	-	-	-	-	-	-	1/Week	Grab	All
01009 - Barium, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
01082 - Strontium, Total (Sr) - ug/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
01094 - Zinc, Total Recoverable - ug/l	-	-	-	-	-	-	-	2/Week	24hr Composite	All
11123 - Manganese, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	24hr Total	All
61425 - Acute Toxicity, Ceriodaphnia dubia - TUa	1.0	-	-	-	-	-	-	1/Quarter	24hr Composite	Quarterly-tox1
61427 - Acute Toxicity, Pimephales promelas - TUa	1.0	-	-	-	-	-	-	1/Quarter	24hr Composite	Quarterly-tox1
77222 - 1,2,4,-Trimethylbenzene - ug/l	-	-	-	-	-	-	-	1/Month	Grab	All

The discharge from this outfall is limited to treated process wastewater, noncontact cooling water, storm water and cooling water.

* Effluent loadings are based upon an average design discharge flow of N/A MGD.

Quarterly-tox1 means monitoring during the months of January, April, July and October.

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning 36 months after the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 31D00003002. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 002 - Final

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1/Week	Grab	All
00515 - Residue, Total Dissolved - mg/l	-	-	-	2007	-	-	42645	1/Week	24hr Composite	All
00530 - Total Suspended Solids - mg/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
00550 - Oil and Grease, Total - mg/l	20	-	-	15	-	-	-	1/Week	Grab	All
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
00719 - Cyanide, Free - mg/l	-	-	-	-	-	-	-	1/Week	Grab	All
01009 - Barium, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
01082 - Strontium, Total (Sr) - ug/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
01094 - Zinc, Total Recoverable - ug/l	-	-	-	-	-	-	-	2/Week	24hr Composite	All
11123 - Manganese, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	Continuous	All
61425 - Acute Toxicity, Ceriodaphnia dubia - TUa	1.0	-	-	-	-	-	-	1/Quarter	24hr Composite	Quarterly-tox1
61427 - Acute Toxicity, Pimephales promelas - TUa	1.0	-	-	-	-	-	-	1/Quarter	24hr Composite	Quarterly-tox1
77222 - 1,2,4,-Trimethylbenzene - ug/l	-	-	-	-	-	-	-	1/Month	Grab	All

The discharge from this outfall is limited to treated process wastewater, noncontact cooling water, storm water and cooling water.

* Effluent loadings are based upon an average design discharge flow of 5.6 MGD.

Quarterly-tox1 means monitoring during the months of January, April, July and October.

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 3ID00003003. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

The discharge from this outfall is limited to steam condensate, storm water and ground water only. It shall be free from process wastewater. No monitoring is required.

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 31D00003004. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 004 - Final

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units		Loading* kg/day					Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1 / 2 Weeks	Grab	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	24hr Total Estimate	All

The discharge from this outfall is limited to noncontact cooling water, steam condensate, storm water and ground water only. It shall be free from process wastewater.

Sampling shall be conducted when discharging noncontact cooling water and steam condensate. If no discharge of noncontact cooling water and steam condensate occurs for the entire month state this in the remarks section and leave the data area blank. No sampling of storm water or ground water required. Signature still required.

Part I, A. - INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until 36 months after the effective date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 3ID00003005. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 005 - Interim

Effluent Characteristic Parameter	Discharge Limitations						Monitoring Requirements			
	Concentration Specified Units		Loading* kg/day				Measuring Frequency	Sampling Type	Monitoring Months	
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly				Monthly
00013 - High Water Temperature - F	-	-	-	-	-	-	-	1/Week	Maximum Indicating Thermometer	All
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1/Week	Grab	All
00515 - Residue, Total Dissolved - mg/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	-	-	-	1/Week	Grab	All
00719 - Cyanide, Free - mg/l	-	-	-	-	-	-	-	1/Week	Grab	All
01094 - Zinc, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
01114 - Lead, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
11123 - Manganese, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
39100 - Bis(2-ethylhexyl) Phthalate - ug/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	Continuous	All
50060 - Chlorine, Total Residual - mg/l	.023	-	-	.019	4.23	-	3.49	1/Week	Grab	All
61425 - Acute Toxicity, Ceriodaphnia dubia - TUa	-	-	-	-	-	-	-	1/Quarter	24hr Composite	Quarterly-tox1
61426 - Chronic Toxicity, Ceriodaphnia dubia - TUc	-	-	-	-	-	-	-	2/Year	24hr Composite	Semi-annual
61427 - Acute Toxicity, Pimephales promelas - TUa	-	-	-	-	-	-	-	1/Quarter	24hr Composite	Quarterly-tox1
61428 - Chronic Toxicity, Pimephales promelas - TUc	-	-	-	-	-	-	-	2/Year	24hr Composite	Semi-annual

Notes for outfall 31D00003005:

* Effluent loadings are based upon an average design discharge flow of 48.54 MGD.

· Quarterly-tox1 means monitoring during the months of January, April, July and October. For chronic toxicity only, semi-annual means sampling during the months of April and October.

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning 36 months after the effective date and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 3ID00003005. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 005 - Final

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units		Loading* kg/day					Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00013 - High Water Temperature - F	-	-	-	-	-	-	-	1/Week	Maximum Indicating Thermometer	All
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1/Week	Grab	All
00515 - Residue, Total Dissolved - mg/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
00719 - Cyanide, Free - mg/l	-	-	-	-	-	-	-	1/Week	Grab	All
01094 - Zinc, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
01114 - Lead, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
11123 - Manganese, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
39100 - Bis(2-ethylhexyl) Phthalate - ug/l	-	-	-	-	-	-	-	1/Month	24hr Composite	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	Continuous	All
50060 - Chlorine, Total Residual - mg/l	0.022	-	-	0.018	4.23	-	3.49	1/Week	Grab	All
61425 - Acute Toxicity, Ceriodaphnia dubia - TUa	-	-	-	-	-	-	-	1/Quarter	24hr Composite	Quarterly-tox1
61427 - Acute Toxicity, Pimephales promelas - TUa	-	-	-	-	-	-	-	1/Quarter	24hr Composite	Quarterly-tox1

Notes for outfall 31D00003005:

- * Effluent loadings are based upon an average design discharge flow of 48.54 MGD.
- Quarterly-tox1 means monitoring during the months of January, April, July and October. For chronic toxicity only, semi-annual means sampling during the months of April and October.

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 3ID00003008. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 008 - Final

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00056 - Flow Rate - GPD	-	-	-	-	-	-	-	1/Month	24hr Total Estimate	All
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1/Month	Grab	All
00530 - Total Suspended Solids - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
00550 - Oil and Grease, Total - mg/l	20.	-	-	15.	-	-	-	1/Month	Grab	All
80082 - CBOD 5 day - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All

The discharge from this outfall is limited to steam condensate, storm water and ground water. It shall be free from process wastewater.

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfalls 3ID00003009, 3ID00003015, 3ID00003028, 3ID00003029, 3ID00003030, 3ID00003031, 3ID00003032, 3ID00003033, 3ID00003034, 3ID00003035, 3ID00003036, 3ID00003037, 3ID00003038, 3ID00003039, 3ID00003040, 3ID00003041, 3ID00003042, 3ID00003043 and 3ID00003044. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

The discharge from these outfalls are limited to storm water and ground water only. They shall be free from process wastewater. No monitoring is required.

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 3ID00003010. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 010 - Final

Effluent Characteristic Parameter	Discharge Limitations						Monitoring Requirements			
	Concentration Specified Units		Loading* kg/day				Measuring Frequency	Sampling Type	Monitoring Months	
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly				Monthly
00550 - Oil and Grease, Total - mg/l	-	-	-	-	-	-	-	1/Day	Grab	All
01094 - Zinc, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Day	Grab	All
01114 - Lead, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Day	Grab	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	24hr Total Estimate	All

The discharge from this outfall is limited to storm water and ground water only. It shall be free from process wastewater. A discharge of process wastewater must be reported in accordance with Part III of this permit. Such discharge must be sampled daily when occurring for the parameters listed above.

If no discharge of process wastewater occurs for the entire month state this in the remarks section and leave the data area blank. No sampling of storm water or ground water required. Signature still required.

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 3ID00003011. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 011 - Final

Effluent Characteristic Parameter	Discharge Limitations						Monitoring Requirements			
	Concentration Specified Units		Loading* kg/day				Measuring Frequency	Sampling Type	Monitoring Months	
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly				Monthly
00550 - Oil and Grease, Total - mg/l	-	-	-	-	-	-	-	1/Day	Grab	All
01094 - Zinc, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Day	Grab	All
01114 - Lead, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Day	Grab	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	24hr Total Estimate	All

The discharge from this outfall is limited to storm water and ground water only. It shall be free from process wastewater. A discharge of process wastewater must be reported in accordance with Part III of this permit. Such discharge must be sampled daily when occurring for the parameters listed above.

If no discharge of process wastewater occurs for the entire month state this in the remarks section and leave the data area blank. No sampling of storm water or ground water required. Signature still required.

Part I, A. - INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until 36 months after the effective date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 3ID00003012. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 012 - Interim

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1/Month	Grab	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Week	24hr Total Estimate	All
50060 - Chlorine, Total Residual - mg/l	-	-	-	-	-	-	-	1/Week	Grab	All

Notes for Station Number 3ID00003012:

* Effluent loadings based on average design flow of N/A MGD.

The discharge from this outfall is limited to steam condensate and pump bearing noncontact cooling water. It shall be free from process wastewater.

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning 36 months after the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 3ID00003012. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 012 - Final

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1/Month	Grab	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Week	24hr Total Estimate	All
50060 - Chlorine, Total Residual - mg/l	.038	-	-	-	.00058	-	-	1/Week	Grab	All

Effluent loadings are based upon an average design discharge flow of .004 MGD.

The discharge from this outfall is limited to steam condensate and pump bearing noncontact cooling water. It shall be free from process wastewater.

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 3ID00003013. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 013 - Final

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1/Month	Grab	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Month	24hr Total Estimate	All

The discharge from this outfall is limited to steam condensate. It shall be free from process wastewater.

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 3ID00003014. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 014 - Final

Effluent Characteristic Parameter	Discharge Limitations						Monitoring Requirements			
	Concentration Specified Units				Loading* kg/day		Measuring Frequency	Sampling Type	Monitoring Months	
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly				Monthly
00013 - High Water Temperature - F	-	-	-	-	-	-	-	1/Week	Maximum	All
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1/Week	Grab	All
00515 - Residue, Total Dissolved - mg/l	-	-	-	-	-	-	-	1/Week	Grab	All
00530 - Total Suspended Solids - mg/l	-	-	-	-	-	-	-	1/Week	Grab	All
00550 - Oil and Grease, Total - mg/l	-	-	-	-	-	-	-	1/Week	Grab	All
00610 - Nitrogen, Ammonia (NH ₃) - mg/l	-	-	-	-	-	-	-	1/Week	Grab	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	24hr Total Estimate	All
50060 - Chlorine, Total Residual - mg/l	.022	-	-	.019	2.65	-	2.29	1/Week	Grab	All

Effluent loadings are based upon an average design discharge flow of 31.88 MGD.

The discharge from this outfall is limited to No. 1 powerhouse noncontact cooling water, water softener, filter and boiler blowdown wastewaters, City of Cleveland West 3rd Street storm sewer, storm water and ground water. It shall be free of process wastewater.

Sampling shall be conducted when discharging noncontact cooling water. If no discharge of noncontact cooling water occurs for the entire month state this in the remarks section and leave the data area blank. No sampling of storm water or ground water required. Signature still required.

The discharge from this outfall is limited to storm water and ground water only. It shall be free from process wastewater. No monitoring is required.

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 3ID00003016. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 016 - Final

Effluent Characteristic Parameter	Discharge Limitations						Monitoring Requirements			
	Concentration Specified Units		Loading* kg/day				Measuring Frequency	Sampling Type	Monitoring Months	
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly				Monthly
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1/Month	Grab	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Month	24hr Total Estimate	All

The discharge from this outfall is limited to steam condensate. It shall be free from process wastewater.

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 3ID00003017. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 017 - Final

Effluent Characteristic Parameter	Discharge Limitations						Monitoring Requirements			
	Concentration Specified Units				Loading* kg/day		Measuring Frequency	Sampling Type	Monitoring Months	
Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly				
00011 - Water Temperature - F	-	-	-	-	-	-	-	1/Week	Grab	All
00401 - pH, Maximum - S.U.	9.0	-	-	-	-	-	-	1/Day	Continuous	All
00402 - pH, Minimum - S.U.	-	6.5	-	-	-	-	-	1/Day	Continuous	All
00515 - Residue, Total Dissolved - mg/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
00530 - Total Suspended Solids - mg/l	-	-	-	-	327	-	111	1/Week	24hr Composite	All
00550 - Oil and Grease, Total - mg/l	20	-	-	15	23.9	-	16.0	1/Week	Grab	All
01062 - Molybdenum (Mo) - ug/l	-	-	-	-	-	-	-	1/Week	24hr Composite	All
01094 - Zinc, Total Recoverable - ug/l	470	-	-	-	3.82	-	1.27	2/Week	24hr Composite	All
01114 - Lead, Total Recoverable - ug/l	5000	-	-	-	2.54	-	0.848	2/Week	24hr Composite	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	24hr Total	All
50060 - Chlorine, Total Residual - mg/l	0.038	-	-	-	0.027	-	-	1/Week	Grab	All

Notes for outfall 3ID00003017:

The discharge from this outfall is limited to treated process wastewater, service water storm water and ground water.

* Effluent loadings for dissolved solids, zinc and chlorine are based upon an average design discharge flow of 0.19 MGD.

Effluent loading limitations for Suspended Solids, Oil and Grease, Lead and Zinc as allowed by the Federal Iron and Steel Manufacturing Categorical Regulations are based on the following average production values:

BOF 8606 tons/day

Vacuum Degassing 4243 tons/day

Continuous Casting 8420 tons/day

If these figures are incorrect or decrease by more than 20% each, the permittee shall notify the Ohio EPA immediately.

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 31D00003019. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 019 - Final

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1/Week	Grab	All
01094 - Zinc, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Week	Grab	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Week	24hr Total Estimate	All

The discharge from this outfall is limited to noncontact cooling water, steam condensate, storm water and ground water. It shall be free from process wastewater.

Sampling shall be conducted when discharging noncontact cooling water and steam condensate. If no discharge of noncontact cooling water and steam condensate occurs for the entire month state this in the remarks section and leave the data area blank. No sampling of storm water or ground water required. Signature still required.

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 3ID00003021. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 021 - Final

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units		Loading* kg/day					Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00550 - Oil and Grease, Total - mg/l	-	-	-	-	-	-	-	-	When Disch. Grab	All
01094 - Zinc, Total Recoverable - ug/l	-	-	-	-	-	-	-	-	When Disch. Grab	All
01114 - Lead, Total Recoverable - ug/l	-	-	-	-	-	-	-	-	When Disch. Grab	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	-	When Disch. 24hr Total Estimate	All

The discharge from this outfall is limited to storm water and ground water only. It shall be free from process wastewater. Monitoring of this outfall is required when discharges from outfall 3ID00003642 occur. During these occurrences, monitoring shall be conducted daily.

Part I, A. - INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until 54 months after the effective date of this permit, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 31D00003022. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 022 - Interim

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00011 - Water Temperature - F	-	-	-	-	-	-	-	1/Week	Maximum Indicating Thermometer	All
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	2/Week	Grab	All
00515 - Residue, Total Dissolved - mg/l	-	-	-	-	-	-	-	2/Week	Grab	All
00550 - Oil and Grease, Total - mg/l	20	-	-	15	-	-	-	2/Week	Grab	All
00719 - Cyanide, Free - mg/l	-	-	-	-	-	-	-	2/Week	Grab	All
00981 - Selenium, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Month	Grab	All
01094 - Zinc, Total Recoverable - ug/l	-	-	-	-	-	-	-	2/Week	Grab	All
01114 - Lead, Total Recoverable - ug/l	-	-	-	-	-	-	-	2/Week	Grab	All
11123 - Manganese, Total Recoverable - ug/l	-	-	-	-	-	-	-	2/Week	Grab	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	Continuous	All
50060 - Chlorine, Total Residual - mg/l	0.024	-	-	0.021	0.045	-	0.040	1/Week	Grab	All
61425 - Acute Toxicity, Ceriodaphnia dubia - TUa	-	-	-	-	-	-	-	1/Quarter	Composite	Quarterly-tox1
61427 - Acute Toxicity, Pimephales promelas - TUa	-	-	-	-	-	-	-	1/Quarter	Composite	Quarterly-tox1

Notes for outfall 3ID00003022:

* Effluent loadings are based upon an average design discharge flow of 0.5 MGD.

The discharge from this outfall is limited to treated process wastewater from outfall 3ID00003622, noncontact cooling water, storm water and ground water.

From the effective date of this permit until 15 months after the effective date of this permit, the permittee shall monitor the effluent for acute toxicity monthly. After 15 months after the effective date of the permit, the monitoring frequency for acute toxicity is quarterly. Quarterly-tox1 means monitoring during the months of January, April, July and October.

The discharge from this outfall is limited to noncontact cooling water, steam condensate, storm water and ground water. It shall be free from process wastewater.

Sampling shall be conducted when discharging noncontact cooling water and steam condensate. If no discharge of noncontact cooling water and steam condensate occurs for the entire month state this in the remarks section and leave the data area blank. No sampling of storm water or ground water required. Signature still required.

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning 52 months after the effective date and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 3ID00003022. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 022 - Final

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00011 - Water Temperature - F	-	-	-	-	-	-	-	1/Week	Maximum Indicating Thermometer	All
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	2/Week	Grab	All
00515 - Residue, Total Dissolved - mg/l	-	-	-	-	-	-	-	2/Week	Grab	All
00550 - Oil and Grease, Total - mg/l	20	-	-	15	-	-	-	2/Week	Grab	All
00719 - Cyanide, Free - mg/l	-	-	-	-	-	-	-	2/Week	Grab	All
00981 - Selenium, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Month	Grab	All
01094 - Zinc, Total Recoverable - ug/l	-	-	-	-	-	-	-	2/Week	Grab	All
01114 - Lead, Total Recoverable - ug/l	-	-	-	-	-	-	-	2/Week	Grab	All
11123 - Manganese, Total Recoverable - ug/l	-	-	-	-	-	-	-	2/Week	Grab	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	Continuous	All
50060 - Chlorine, Total Residual - mg/l	0.024	-	-	0.021	0.045	-	0.040	1/Week	Grab	All
61425 - Acute Toxicity, Ceriodaphnia dubia - TUa	1.0	-	-	-	-	-	-	1/Quarter	24hr Composite	Quarterly-tox]
61427 - Acute Toxicity, Pimephales promelas - TUa	1.0	-	-	-	-	-	-	1/Quarter	24hr Composite	Quarterly-tox]

Notes for outfall 3ID00003022:

* Effluent loadings are based upon an average design discharge flow of 0.5 MGD.

The discharge from this outfall is limited to treated process wastewater from outfall 3ID00003622, noncontact cooling water, storm water and ground water.

Quarterly-tox1 means monitoring during the months of January, April, July and October.

Limits for acute toxicity are effective only if triggered by the conditions of Part II, Item H.

Part I, A. - INTERIM EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until 36 months after the effective date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 31D00003023. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 023 - Interim

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00310 - Biochemical Oxygen Demand, 5 Day - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
00335 - Chemical Oxygen Demand (Low Level) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
00400 - pH - S.U.	-	-	-	-	-	-	-	1/Month	Grab	All
00530 - Total Suspended Solids - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
00550 - Oil and Grease, Total - mg/l	-	-	-	-	-	-	-	1/Week	Grab	All
00945 - Sulfate, (SO4) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
01094 - Zinc, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Month	Grab	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Month	Grab	All

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning 36 months after the effective date and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 3ID00003023. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 023 - Final

Effluent Characteristic Parameter	Discharge Limitations						Monitoring Requirements			
	Concentration Specified Units		Loading* kg/day				Measuring Frequency	Sampling Type	Monitoring Months	
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly				Monthly
00310 - Biochemical Oxygen Demand, 5 Day - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
00335 - Chemical Oxygen Demand (Low Level) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
00400 - pH - S.U.	-	-	-	-	-	-	-	1/Month	Grab	All
00530 - Total Suspended Solids - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
00550 - Oil and Grease, Total - mg/l	-	-	-	-	-	-	-	1/Week	Grab	All
00945 - Sulfate, (SO4) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
01094 - Zinc, Total Recoverable - ug/l	540	-	-	-	-	-	-	1/Month	Grab	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Month	Grab	All

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 3ID00003024. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 024 - Final

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1/Week	Grab	All
00550 - Oil and Grease, Total - mg/l	20	-	-	15	-	-	-	1/Week	Grab	All
01094 - Zinc, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Week	Grab	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Week	24hr Total Estimate	All

The discharge from this outfall is limited to storm water and ground water. It shall be free from process wastewater.

Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from outfall 3ID00003027. See Part II, OTHER REQUIREMENTS, for locations of effluent sampling.

Table - Final Outfall - 027 - Final

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1/Month	Grab	All
00550 - Oil and Grease, Total - mg/l	20	-	-	15	-	-	-	1/Month	Grab	All
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
00719 - Cyanide, Free - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
01094 - Zinc, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Month	Grab	All
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Week	24hr Total Estimate	All

Notes for outfall 3ID00003027:

* Effluent loadings are based upon an average design discharge flow of N/A MGD.

The discharge from this outfall is limited to noncontact cooling water, storm water and ground water only. If the permittee wishes to restart discharges from the blast furnace operations, the permittee shall apply to the Ohio EPA for a modification of this permit under Part III, DISCHARGE CHANGES, of this permit.

Part I, B. - INTAKE MONITORING REQUIREMENTS

1. Intake Monitoring. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee shall monitor the Intake at Station Number 3ID00003808, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS, for location of sampling.

Table - Intake Monitoring - 808 - Final

Effluent Characteristic Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00010 - Water Temperature - C	-	-	-	-	-	-	-	1 / 2 Weeks	Grab	Summer
00610 - Nitrogen, Ammonia (NH ₃) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All

Part I, B. - INTAKE MONITORING REQUIREMENTS

1. Intake Monitoring. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee shall monitor the Intake at Station Number 3ID00003800, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS, for location of sampling.

Table - Intake Monitoring - 800 - Final

Effluent Characteristic Parameter	Discharge Limitations						Monitoring Requirements			
	Concentration Specified Units		Loading* kg/day				Measuring Frequency	Sampling Type	Monitoring Months	
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly				Monthly
00010 - Water Temperature - C	-	-	-	-	-	-	-	1 / 2 Weeks	Grab	Summer
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All

Part I, B. - INTAKE MONITORING REQUIREMENTS

1. Intake Monitoring. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee shall monitor the Intake at Station Number 31D00003801, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS, for location of sampling.

Table - Intake Monitoring - 801 - Final

Effluent Characteristic Parameter	Discharge Limitations						Monitoring Requirements			
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00010 - Water Temperature - C	-	-	-	-	-	-	-	1 / 2 Weeks	Grab	Summer
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
11123 - Manganese, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Month	Grab	All

Part I, B. - INTAKE MONITORING REQUIREMENTS

1. Intake Monitoring. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee shall monitor the Intake at Station Number 3ID00003806, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS, for location of sampling.

Table - Intake Monitoring - 806 - Final

Effluent Characteristic Parameter	Discharge Limitations						Monitoring Requirements			
	Concentration Specified Units		Loading* kg/day				Measuring Frequency	Sampling Type	Monitoring Months	
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly				Monthly
00010 - Water Temperature - C	-	-	-	-	-	-	-	1 / 2 Weeks	Grab	Summer
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	-	-	-	-	-	1/Month	Grab	All
11123 - Manganese, Total Recoverable - ug/l	-	-	-	-	-	-	-	1/Month	Grab	All

Part I, C. - SCHEDULE OF COMPLIANCE

I. Compliance Schedule for Acute Toxicity at Outfall 3ID00003022. Applicable if triggered by the conditions of Part II, Item H. 3. c. of this permit.

1. The permittee shall attain compliance as expeditiously as practicable, but not later than the dates developed in accordance with the following schedule:

a. Starting with a report 12 months after being triggered under Part II, Item H. 3. c. of this permit and lasting until compliance with the 1.0 TUa WET limit is achieved, the permittee shall submit annual reports detailing the progress of efforts to meet the limit. These annual progress reports shall include any biomonitoring results or other relevant information obtained during the reporting year. (Event Code 95999)

b. Within 30 Months after being triggered under Part II, Item H. 3. c. of this permit, the permittee shall submit a specific plan detailing any necessary construction, process changes or other related items that are sufficient to comply with the final WET limits of 1.0 TUa at outfall 3ID00003022. The strategy shall include, as a minimum: (d.1.) - Identification of the source(s) of toxicity with supporting data. (d.2.) - Technical justification of any necessary changes in treatment and/or operation required to eliminate toxicity, if any. (d.3.) - A schedule for initiation and completion of construction, if necessary. A complete Permit-to-Install (PTI) application and approvable detail plans must be submitted to the Ohio EPA, Northeast District Office at the address provided below if construction is needed. (Event Code 1299)

c. Within 36 Months after being triggered under Part II, Item H. 3. c. of this permit, the permittee shall implement the specific plan and initiate construction, if necessary. (Event Code 999)

d. Within 54 months of the effective date of this permit, the permittee shall attain compliance with the final WET limits of 1.0 TUa at outfall 3PD00003022. (Event Code 90899)

2. Reports and plans required by this Schedule of Compliance for toxicity reduction must be submitted to the Ohio EPA, Division of Surface Water, Enforcement and Compliance Section, P.O. Box 1049, Columbus, OH 43216-1049. A copy of the report shall also be sent to the Northeast District Office, Division of Surface Water, 2110 East Aurora Road, Twinsburg, Ohio, 44087.

3. The permittee shall submit written notification to the Ohio EPA, Northeast District Office, 2110 East Aurora Road, Twinsburg, OH 44087, after completion of items 1.b., 1.e., and 1.f., above. Notification must be submitted within fourteen (14) days after compliance with each requirement.

II. Compliance Schedule for Outfall 3ID00003002

The permittee shall achieve compliance with the final effluent limitations at outfall 3ID00003002, as specified in Part I, A. of this permit as expeditiously as possible but not later than the dates developed in accordance with the following schedule:

A. Within 12 months of the effective date of this permit the permittee shall submit to the Ohio EPA Northeast District Office a status report regarding the progress towards achieving compliance with the final effluent limitations at outfall 3ID00003002. (Event Code 95999)

B. Within 24 months of the effective date of this permit the permittee shall submit to the Ohio EPA an approvable Permit to Install/Plan Approval Application and detail plans if the installation of treatment equipment is necessary for compliance with the final effluent limitations at outfall 3ID00003002. (Event Code 01799)

C. Within 36 months of the effective date of this permit the permittee shall have achieved compliance with the final effluent limitations at outfall 3ID00003002. (Event Code 05699)

III. Compliance Schedule for Outfall 3ID00003023

The permittee shall achieve compliance with the final effluent limitations at outfall 3ID00003023, as specified in Part I, A. of this permit as expeditiously as possible but not later than the dates developed in accordance with the following schedule:

A. Within 12 months of the effective date of this permit the permittee shall submit to the Ohio EPA Northeast District Office a status report regarding the progress towards achieving compliance with the final effluent limitations at outfall 3ID00003023. (Event Code 95999)

B. Within 24 months of the effective date of this permit the permittee shall submit to the Ohio EPA an approvable Permit to Install/Plan Approval Application and detail plans if the installation of treatment equipment is necessary for compliance with the final effluent limitations at outfall 3ID00003023. (Event Code 01799)

C. Within 36 months of the effective date of this permit the permittee shall have achieved compliance with the final effluent limitations at outfall 3ID00003023. (Event Code 05699)

IV. Compliance Schedule for Outfall 3ID00003012

The permittee shall achieve compliance with the final effluent limitations at outfall 3ID00003012, as specified in Part I, A. of this permit as expeditiously as possible but not later than the dates developed in accordance with the following schedule:

A. Within 12 months of the effective date of this permit the permittee shall submit to the Ohio EPA Northeast District Office a status report regarding the progress towards achieving compliance with the final effluent limitations at outfall 3ID00003012. (Event Code 95999)

B. Within 24 months of the effective date of this permit the permittee shall submit to the Ohio EPA an approvable Permit to Install/Plan Approval Application and detail plans if the installation of treatment equipment is necessary for compliance with the final effluent limitations at outfall 3ID00003012. (Event Code 01799)

C. Within 36 months of the effective date of this permit the permittee shall have achieved compliance with the final effluent limitations at outfall 3ID00003012. (Event Code 05699)

Part II - OTHER REQUIREMENTS

A. Description of the location of the required sampling stations are as follows:

Sampling Station	Description of Location
3ID00003001	The discharge from this outfall is limited to emergency overflow from the 84" cold mill area non-contact cooling water system, storm water and ground water, during wet weather events only (Lat: 41N 26' 57"; Long: 81W 40' 52")
3ID00003002	Strip mill area outfall. Combined discharge of stations 3ID00003601 and 3ID00003602, non-contact cooling water, storm water and ground water (Lat: 41N 27' 06"; Long: 81W 40' 56")
3ID00003003	Steam condensate, storm water and ground water from the strip mill complex storm sewer (Lat: 41N 27' 08"; Long: 81W 41' 03")
3ID00003004	Non- contact cooling water, steam condensate, storm water and ground water. Sample shall be taken from the overflow chamber leading to the Cuyahoga River (Lat: 41N 27' 15"; Long: 81W 41' 01")
3ID00003005	C5 and C6 blast furnace recycle system (3ID00003604), non-contact cooling water, stormwater and groundwater prior to discharge to the Cuyahoga River (Lat: 41N 27' 54"; Long: 81W 40' 21")
3ID00003008	Steam condensate, storm water and ground water approximately 50' North of Morgana Run (Lat: 41N 28' 08"; Long: 81W 40' 09")
3ID00003009	Storm water and ground water from the former coke plant area (Lat: 41N 28' 10"; Long: 81W 40' 08")
3ID00003010	Storm water and ground water at pit prior to discharge to the Cuyahoga River (Lat: 41N 28' 20"; Long: 81W 40' 10")
3ID00003011	Storm water and ground water prior to discharge to the Cuyahoga River (Lat: 41N 28' 35"; Long: 81W 40' 18")
3ID00003012	Steam condensate and pump bearing non-contact cooling water (3" pipe) at bulk unloading pump house (Lat: 41N 27' 55"; Long: 81W 40' 18")
3ID00003013	Steam condensate (1 1/2" pipe) at bulk unloading pump house. Lat: 41N 27' 55"; Long: 81W 40' 18"

- 3ID00003014 No. 1 Powerhouse non-contact cooling water, water softener, filter and boiler blowdown wastewaters, storm water, ground water and the City of Cleveland West 3rd Street storm water discharge to the Cuyahoga River
(Lat: 41N 28' 23"; Long: 81W 40' 18")
- 3ID00003015 Storm water and ground water discharge to the Cuyahoga River
(Lat: 41N 28' 35"; Long: 81W 40' 18")
- 3ID00003016 Steam condensate (4" pipe) discharge approximately 100' north of outfall 3ID00003019
(Lat: 41N 27' 11"; Long: 81W 40' 03")
- 3ID00003017 Deep bed filter lowdown from the steel plant wastewater treatment facility, no. 2 BOF suppressed combustion system lowdown, service water, storm water and ground water prior to discharge to the Cuyahoga River
(Lat: 41N 28' 20"; Long: 81W 40' 10")
- 3ID00003019 Strip mill area air compressor non-contact cooling water, steam condensate, storm water and ground water discharge to the Cuyahoga River
(Lat: 41N 27' 10"; Long: 81W 41' 04")
- 3ID00003021 Outfall of storm water and ground water at the North pump station
(Lat: 41N 27' 42"; Long: 81W 40' 18")
- 3ID00003022 Cental treatment system effluent (3ID00003622), non-contact cooling water, storm water and ground water. Outfall located near 80" hot mill cooling towers
(Lat: 41N 27' 45"; Long: 81W 40' 57")
- 3ID00003024 Discharge of storm water and ground water. Outfall located 100 feet east of Twin bridges
(Lat: 41N 27' 53"; Long: 81W 40' 41")
- 3ID00003027 Discharge of blast furnace recycle system (3ID00003621), non- contact cooling water, storm water and ground water. Outfall located at station 3 ore dock.
(Lat: 41N 28' 10"; Long: 81W 40' 10")
- 3ID00003601 Effluent from the hot mill treatment facility deep bed filter lowdown and metals removal wastewater treatment system prior to discharge to 3ID00003002
- 3ID00003602 Effluent from the #1 and #3 finishing mills wastewater treatment facility prior to discharge to 3ID00003002
- 3ID00003603 Calculated (fictitious) station representing the total of stations 3ID00003601 and 3ID00003602

3ID00003604 C5 and C6 blast furnace wastewtaer recycle facility
blowdown prior to discharge to outfall 3ID00003005
3ID00003621 Discharge of C1 blast furnace recycle system prior to
discharge to outfall 3ID00003027. Outfall located at
station 7-A
3ID00003622 Discharge from the central trreatment system prior to
combining with storm water runoff and discharging through
outfall 3ID00003022. Outfall located at recycle pump house
station 56
3ID00003613 Discharge of storm water and potentially leachate from the
solid waste disposal facility sedimentation pond number 1
3ID00003623 Storm water, ground water and potentially leachate from
the solid waste disposal facility sedimentation ponds
number 1, 3, 4, and 5
(Lat: 41N 27' 31"; Long: 81W 40' 21")
3ID00003632 Calculated (fictitious) station representing the total of
stations 3ID00003622 and 3ID00003642
3ID00003633 Discharge of storm water and potentially leachate
from the solid waste disposal facility sedimentation
pond number 3
3ID00003642 Sampling station for any process wastewater bypassing
station 3ID00003622 tributary to outfall 3ID00003021
3ID00003643 Discharge of storm water and potentially leachate from the
solid waste disposal facility sedimentation pond number 4
3ID00003653 Discharge of storm water and potentially leachate from the
solid waste disposal facility sedimentation pond number 5

3ID00003028 Storm water from Area 1: No. 2 BOF, Caster and Steel
Wastewater Treatment Plant. Box culvert city sewer
(Mark No. 1)
(Lat: 41N 28' 43"; 81W 40' 11")
3ID00003029 Storm water from Area 1: No. 2 BOF, Caster and Steel
Wastewater Treatment Plant. Caster area drainage via 27" RCP
(Mark No. 1A)
(Lat: 41N 28' 36"; 81W 39' 56")
3ID00003030 Runoff from parking lot. (Mark 8)
(Lat: 41N 28' 18"; Long: 81W 40' 10")
3ID00003031 Drainage from railroad tracks via 8" CMP (Mark 11)
(Lat: 41N 28' 13"; Long: 81W 40' 09")
3ID00003032 Campbell Road drainage, 12" sheeting opening (Mark 17)
(Lat: 41N 27' 56"; Long: 81W 40' 18")
3ID00003033 Storm water from Area 5: Yucca Flats, No. 2 Coke Plant
and Burke Brook Culvert (Mark 22)
(Lat: 41N 27' 54"; Long: 81W 40' 21")
3ID00003034 Storm water from the Area 6: East Side 84 inch Hot
Strip Mill and Finishing Mills (Mark No. 34)
(Lat 41N 27' 11"; Long 81W 41' 02")

- 3ID00003035 Drainage from approximately 22 misc. curb drains (Mark 38)
(Lat: 41N 27' 10"; Long: 81W 40' 04")
- 3ID00003036 96" RCP county storm sewer (Mark 53)
(Lat: 41N 27' 41"; Long: 81W 40' 56")
- 3ID00003037 Drainage from Strip Mill via 48" CMP (Mark 59)
(Lat: 41N 27' 48"; Long: 81W 40' 55")
- 3ID00003038 Drainage from Strip Mill via 42" RCP (Mark 60)
(Lat: 41N 27' 50"; Long: 81W 40' 54")
- 3ID00003039 Drainage from Slabbing Mill via 30" RCP
(Mark 63)
(Lat: 41N 27' 52"; Long: 81W 40' 49")
- 3ID00003040 Area runoff (Mark 65)
(Lat: 41N 27' 54"; Long: 81W 40' 36")
- 3ID00003041 Storm water from Area 7: West Side Blast
Furnace and Idled E.A.F. and No. 2 Slabbing
Mill. C3 blast furnace drainage via 48" RCP
(Mark No. 66)
(Lat: 41N 27' 54"; Long: 81W 40' 34")

- 3ID00003042 Area runoff. (Mark 68)
(Lat: 41N 27' 58"; Long: 81W 40' 28")
- 3ID00003043 Drainage from railroad track via 6" CMP
(Mark 88)
(Lat: 41N 28' 08"; Long: 81W 40' 09")
- 3ID00003044 Runoff from Campbell Road (Mark 89)
(Lat: 41N 28' 02"; Long: 81W 40' 15")
- 3ID00003800 Intake east side Strip Mill Treatment Plant
- 3ID00003801 Intake east side C5 and C6 blast furnace
(6 and 7 pumphouse).
- 3ID00003806 Intake west side Central Treatment Plant
- 3ID00003807 Intake west side C1 blast furnace
- 3ID00003808 Intake west side powerhouse

B. In the event that the permittee's operation requires the use of cooling or boiler water treatment additives that are discharged to surface waters of the state, written permission must be obtained from the director of the Ohio EPA prior to use. Reporting and testing requirements to apply for permission to use additives can be obtained from the Ohio EPA, Central Office, Division of Surface Water, Compliance and Enforcement Unit. Reported information will be used to evaluate whether the use of the additive(s) at concentrations expected in the final discharge will be harmful or inimical to aquatic life.

C. Composite samples shall be comprised of a series of grab samples collected over a 24-hour period and proportionate to either the volume of the effluent flow rate at the time of sampling or the time interval between each grab sample. Such samples shall be collected at such times and locations, and in such a fashion, as to be representative of the facility's overall performance.

D. Grab samples shall be collected at such times and locations, and in such fashion, as to be representative of the facility's performance.

E. Permit limitations may be revised in order to meet water quality standards after a stream use determination and waste load allocation are completed and approved. This permit may be modified, or alternatively, revoked and reissued, to comply with any applicable water quality effluent limitations.

F. This permit shall be modified, or alternatively, revoked and reissued, to comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a)(2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:

1. Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
2. Controls any pollutant not limited in the permit.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Act then applicable.

G. On internal sampling stations where pH is monitored continuously, the permittee shall maintain the pH of such wastewater within the range specified in this permit. Excursions from the range are permitted subject to the following limitations.

1. The total time during which pH values are outside the required range of pH values shall not exceed 7 hours and 26 minutes in a calendar month.
2. No individual excursion from the range of pH values shall exceed 60 minutes.
3. The permittee shall report each month for each monitoring station where pH is monitored continuously the following:
 - a. the number of pH excursions;
 - b. the duration of each excursion;
 - c. the date of each excursion;and
 - d. the total time of all excursions combined.

H. As soon as possible, but not later than three (3) months after the effective date of this permit, the permittee shall initiate biomonitoring in order to determine the toxicity of the effluent from outfalls 3ID00003002, 3ID00003005 and 3ID00003022, and judge compliance with the whole effluent toxicity limits of 1.0 TUa at outfall 3ID00003002.

General Requirements

All toxicity testing conducted as required by this permit shall be done in accordance with "Reporting and Testing Guidance for Biomonitoring Required by the Ohio Environmental Protection Agency" (hereinafter the "biomonitoring guidance"), Ohio EPA, 1998 (or current revision). The Standard Operating Procedures (SOP) or verification of SOP submittal, as described in Section 1.B. of the biomonitoring guidance shall be submitted no later than three (3) months after the effective date of this permit. If the laboratory performing the testing has modified its protocols, a new SOP is required.

Testing Requirements

1. Chronic Bioassays

The permittee shall conduct semi-annual chronic toxicity tests using *Ceriodaphnia dubia* and fathead minnows (*Pimephales promelas*) on effluent samples from outfall 3ID00003005 for a period of three years. These tests shall be conducted as specified in Section 3 of the biomonitoring guidance. Acute endpoints, as described in Section 2.H of the biomonitoring guidance, shall be determined from the chronic test results.

2. Acute Bioassays

The permittee shall conduct quarterly definitive acute toxicity tests using *Ceriodaphnia dubia* and fathead minnows (*Pimephales promelas*) on effluent samples from outfalls 3ID00003002, 3ID00003005 and 3ID00003022.. These tests shall be conducted as specified in Section 2 of the biomonitoring guidance.

3. Data Review

a. Reporting

Following completion of each required bioassay monitoring event, the permittee shall report results of the tests in accordance with Section 3.H.1., and 3.H.2.b. of the biomonitoring guidance. Ohio EPA will evaluate the results in order to judge compliance with the whole effluent toxicity limitations of 1.0 TUa at outfall 3ID00003002. In addition this permit may be modified to require further investigation of toxicity.

b. Definitions

TUa = Acute Toxic Units = 100
LC50

TUc = Chronic Toxic Units = 100
IC25

except that, for Ceriodaphnia tests,

TUc = Chronic Toxic Units = 100
square root of NOEC X LOEC

when this method results in a higher TUc value than that obtained from the definition based on IC25.

c. Trigger to Initiate a Toxicity Reduction Evaluation (TRE)

Based upon evaluation of the effluent toxicity data, acute toxicity limits and a TRE may be required of the permittee for outfall 3ID00003022. Toxicity limits and a TRE are required for if any toxicity test result for that outfall exceeds 1.0 TUa. See the Compliance Schedule Item I.

I. It is understood by Ohio EPA that, at the time permit 3ID00003*LD becomes effective, an analytical method is not approved under 40 CFR 136 to evaluate compliance with the free cyanide effluent limitations contained in the permit. The permittee shall utilize method 4500-CN I contained in the 17th edition of Standard Methods (method 412H, 18th edition) until U.S. EPA promulgates a method for analyzing free cyanide under 40 CFR 136.

J. The parameters below have had effluent limitations established that are below the Ohio EPA Quantification Level (OEPA QL) for the 40 CFR 136 promulgated analytical procedure for those parameters. In accordance with the ORC Section 6111.13 and OAC Rule 3745-33-07(C), if a discharge limit is set below the OEPA QL, any analytical result reported less than the OEPA QL shall be considered to be in compliance with that limit.

REPORTING:

All analytical results, even those below the OEPA QL (listed below), shall be reported. Analytical results are to be reported as follows:

1. Results above the QL: Report the analytical result for the parameter of concern.
2. Results above the MDL, but below the QL: Report the analytical result, even though it is below the QL.
3. Results below the MDL: Analytical results below the method detection limit shall be reported as "below detection" using the reporting code "AA".

The following table of quantification levels will be used to determine compliance with NPDES permit limits:

Parameter	PQL	ML
Chlorine, Total Residue	0.050 mg/l	--

This permit may be modified, or, alternatively, revoked and reissued, to include more stringent effluent limits or conditions if information generated as a result of the conditions of this permit indicate the presence of these pollutants in the discharge at levels above the WQBEL.

K. Within three years of the effective date of this permit, the permittee shall submit to the Ohio EPA Northeast District Office, Division of Surface Water at least 15 sample results for the various forms of selenium in the 3ID00003022 effluent, including, at a minimum, selenate and selenite. Samples shall be collected as composite samples at outfall 3ID00003022, and shall account for a variety of representative flow and seasonal conditions.

L. Total Toxic Organic (TTO) and Wastewater Characterization Provisions

1. Compliance Monitoring

Upon completion of the wastewater characterization program described in the preceding paragraph, the permittee may elect to continue monitoring in accordance with paragraph 2a. below or, in lieu thereof, adopt and implement a toxic organic management plan and submit monthly certifications in accordance with paragraph 2b. hereof. Within 30 days after completion of the wastewater characterization program, the permittee shall provide written notification to the Surface Water Unit Supervisor at the Ohio EPA Northeast District Office of the option elected.

a. Monitoring Option

If the permittee elects to continue monitoring to measure compliance with the TTO standard, the monitoring shall be conducted in accordance with the provisions of 1a. above except that the permittee shall be required to analyze for only those substances included within the definition of TTO. Depending upon the results of the prior wastewater characterization monitoring and any other information, the Ohio EPA may modify the provision of paragraph 1a. as appropriate. Modifications may include, but are not limited to, restricting monitoring to those toxic organics which would reasonably be expected to be present.

b. Certification Option

If the permittee elects to certify compliance rather than continue monitoring, the permittee shall:

1. Submit to the Ohio EPA a toxic organic management plan within 90 days after completion of the wastewater characterization monitoring program described in 2a. above. The plan shall specify to the satisfaction of the Ohio EPA the toxic organic chemicals used, the method of disposal used instead of dumping, such as reclamation, contract hauling, or incineration, and procedures for ensuring that toxic organics do not spill or leak into process wastewaters, non-contact cooling water, ground water, storm water, or surface waters. Upon review and approval of the plan, the Ohio EPA will modify this permit to include the plan as a provision of the permit.

2. Except as provided in subparagraph 3 below, make the following certification statement each month:

"Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for TTO, I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing of the last discharge monitoring report."

This statement is to be attached to the discharge monitoring reports required by 40 CFR 122.44(i), formerly 40 CFR 122.61(i). Upon approval of the toxic organic management plan described in subparagraph 1 above, the permittee shall include the following statement as part of the certification statement:

"I further certify that this facility is implementing the toxic organic management plan submitted to the Ohio EPA."

3. If the permittee is unable to make the above certification statement, notify the Ohio EPA in accordance with Part III, 12 of this permit.

1. Wastewater Characterization

If the permittee elects to monitor to measure compliance with the TTO standard, beginning no later than 30 days from the effective date of this permit, the permittee shall monitor the treatment plant effluent quarterly for the purpose of determining compliance with the TTO standards contained in this permit.

At least two grab samples for volatile pollutants and either an 8-hour or a 24-hour composite sample for acid and base/neutral and pesticide pollutants shall be obtained on each monitoring day. Wastewater samples shall be prepared and analyzed by GC/MS in accordance with U.S. EPA methods 624 and 625. In addition to the quantitative analysis for total toxic organics, a reasonable attempt shall be made to identify and quantify any additional substances indicated to be present in the extracts by peaks on the reconstructed gas chromatograms (total ion plots) more than ten times higher than the adjacent peak-to-peak background noise. Identification shall be by reference to the EPA/NIH computerized library of mass spectra, with visual confirmation by an experienced analyst. Quantification may be an order-of-magnitude estimate based upon comparison with an internal standard. GC/MS analysis results are to be reported to the Ohio EPA Northeast District Office, Division of Surface Water within sixty days of sampling. Along with the GC/MS results, the total toxic organics (TTO) measured in the discharge are to be reported in the units of micrograms per liter (ug/l). The term TTO shall mean total toxic organics which is the summation of all quantifiable values greater than 0.01 milligrams per liter for the following toxic organics:

Acenaphthene
Acrolein
Acrylonitrile
Benzene
Benzidine
Carbon tetrachloride
(tetrachloromethane)
Chlorobenzene
1,2,4-trichlorobenzene
Hexachlorobenzene
1,2-dichloroethane
1,1,1-trichloroethane
Hexachloroethane
1,1-dichloroethane
1,1,2-trichloroethane
1,1,2,2-tetrachloroethane
Chloroethane
Bis (2-chloroethyl) ether
2-chloroethyl vinyl ether (mixed)
2-Chloronaphthalene
2,4,6-Trichlorophenol
Parachlorometa cresol
Chloroform (trichloromethane)
2-Chlorophenol
1,2-Dichlorobenzene
1,3-Dichlorobenzene
1,4-Dichlorobenzene
3,3-Dichlorobenzidine
1,1-Dichloroethylene
1,2-Trans-dichloroethylene
2,4-Dichlorophenol
1,2-Dichloropropane
1,3-Dichloropropylene
(1,3-dichloropropene)
2,4-Dimethylphenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
1,2-Diphenylhydrazine
Ethylbenzene
Fluoranthene

4-Chlorophenyl phenyl ether
4-Bromophenyl phenyl ether
Bis (2-chloroisopropyl) ether
Bis (2-chloroethoxy) methane
Methylene chloride (dichloromethane)
Methyl chloride (chloromethane)
Methyl bromide (bromomethane)
Bromoform (tribromomethane)
Dichlorobromomethane
Chlorodibromomethane
Hexachlorobutadiene
Hexachlorocyclopentadiene
Isophorone
Naphthalene
Nitrobenzene
2-Nitrophenol
4-Nitrophenol
2,4-Dinitrophenol
4,6-Dinitro-o-cresol
N-nitrosodimethylamine
N-nitrosodiphenylamine
N-nitrosodi-n-propylamine
Pentachlorophenol
Phenol
Bis (2-ethylhexyl) phthalate
Butyl benzyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Diethyl phthalate
Dimethyl phthalate
1,2-Benzanthracene
(benzo(a)anthracene)
Benzo(a)pyrene (3,4-benzopyrene)
3,4-Benzofluoranthene
(benzo(b)fluoranthene)
11,12-Benzofluoranthene
(benzo(k)fluoranthene)
Chrysene
Acenaphthylene
Anthracene
1,12-Benzoperylene
(benzo(ghi)perylene)
Fluorene
Phenanthrene
1,2,5,6-dibenzanthracene
(dibenzo(a,h)anthracene)
Indeno(1,2,3-cd)pyrene
(2,3-o-phenylenepyrene)
Pyrene

Tetrachloroethylene
Toluene
Trichloroethylene
Vinyl Chloride (chloroethylene)
Aldrin
Dieldrin
Chlordane (technical mixture and
metabolites)
4,4-DDT
4,4-DDE (p,p-DDX)
4,4-DDD (p,p-TDE)
Alpha-endosulfan
Beta-endosulfan
Endosulfan sulfate
Endrin
Endrin aldehyde
Heptachlor
Heptachlor epoxide
(BHC-hexachlorocyclohexane)
Alpha-BHC
Beta-BHC
Gamma-BHC (lindane)
Delta-BHC
(PCB-polychlorinated biphenyls)
PCB-1242 (Arochlor 1242)
PCB-1254 (Arochlor 1254)
PCB-1221 (Arochlor 1221)
PCB-1232 (Arochlor 1232)
PCB-1248 (Arochlor 1248)
PCB-1260 (Arochlor 1260)
PCB-1016 (Arochlor 1016)
Toxaphene
2,3,7,8-tetrachlorodibenzo-p-
dioxin (TCDD)

After review of the results of the organic pollutant monitoring program, the Ohio EPA may propose effluent limitations and/or additional monitoring requirements for specific organic pollutants, as appropriate. The Ohio EPA may also required continued monitoring to measure compliance with the TTO standard, notwithstanding the compliance monitoring options set forth in Part II, N.1., above.

M. In lieu of Part III, 4. A., monitoring data required by this permit shall be reported on facsimiles in format similar to the Ohio EPA report form (4500) on a monthly basis. Individual reports for each sampling station for each month are to be received no later than the 25th day of the next month. The original plus first copy of the report form must be signed and mailed to:

Ohio EPA
Data and Systems
P.O. Box 163669
Columbus, OH 43216-3669

N. Quality Control/Quality Assurance for samples taken related to overflows, bypasses and unauthorized discharges:

The permittee shall assure that appropriate employees are properly trained in sample collection procedures, if automatic sample collection and preservation is not available.

O. The permittee shall submit by March 1st of each calendar year an annual of the previous year's overflows, bypasses and unauthorized discharges of process wastewater (treated or partially treated or untreated). The report shall summarize for each outfall:

1. Location of overflow, bypass or unauthorized discharge and final discharge point;
2. Type(s) of wastewater and source, including the outfall number which would otherwise receive the process wastewater;
3. Quality of wastewater:
 - a. annual total load of pollutants discharged
 - b. Annual total volume (MG) of each type of wastewater discharged and the number of events for each type of wastewater discharged;
 - c. Cause(s) for the overflow, bypass or unauthorized discharge; and,
 - d. Results of any toxicity testing conducted during an event.

P. The requirements of this permit for ammonia-nitrogen at outfall 3ID00003002 and for manganese at outfall 3ID00003022 are based on intake credits granted for these pollutants at these outfalls. This permit may be modified, or alternatively, revoked and reissued if new information demonstrates changes in the conditions that led to the granting of these intake credits.

PART III - GENERAL CONDITIONS

1. DEFINITIONS

"Daily load" is the total discharge by weight during any calendar day. If only one sample is taken during a day, the weight of pollutant discharge calculated from it is the daily load.

"Daily concentration" means the arithmetic average of all the determinations of concentration made during the day. If only one sample is taken during the day, its concentration is the daily concentration. Coliform bacteria limitations compliance shall be determined using the geometric mean.

"Weekly load" is the total discharge by weight during any 7-day period divided by the number of days in that 7-day period that the facility was in operation. If only one sample is taken in a 7-day period, the weight of pollutant discharge calculated from it is the 7-day load. If more than one sample is taken during the 7-day period, the 7-day load is calculated by determining the daily load for each day sampled, totaling the daily loads for the 7-day period, and dividing by the number of days sampled.

"Weekly concentration" means the arithmetic average of all the determinations of daily concentration limitation made during the 7-day period. If only one sample is taken during the 7-day period, its concentration is the 7-day concentration for that 7-day period. Coliform bacteria limitations compliance shall be determined using the geometric mean.

"Monthly load" is the total discharge by weight during all days in a calendar month divided by the number of days that the facility was in operation during that month. If only one sample is taken during the month the weight of pollutant discharge calculated from it is the monthly load. If more than one sample is taken during the month, the monthly load is calculated by determining the daily load for each day sampled, totaling the daily loads for the month and dividing by the number of days sampled.

"Monthly concentration" means the arithmetic average of all the determinations of daily concentration made during any calendar month. If only one sample is taken during the month, its concentration is the monthly concentration for that period. Coliform bacteria limitations compliance shall be determined using the geometric mean.

"85 percent removal" means the arithmetic mean of the values for effluent samples collected in a period of 30 consecutive days shall not exceed 15 percent of the arithmetic mean of the values for influent samples collected at approximately the same times during the same period.

"Absolute Limitations" Compliance with limitations having descriptions of "shall not be less than," "nor greater than," "shall not exceed," "minimum," or "maximum" shall be determined from any single value for effluent samples and/or measurements collected.

"Net concentration" shall mean the difference between the concentration of a given substance in a sample taken of the discharge and the concentration of the same substances in a sample taken at the intake which supplies water to the given process. For the purpose of this definition, samples that are taken to determine the net concentration shall always be 24-hour composite samples made up of at least six increments taken at regular intervals throughout the plant day.

"Net load" shall mean the difference between the load of a given substance as calculated from a sample taken of the discharge and the load of the same substance in a sample taken at the intake which supplies water to given process. For purposes of this definition, samples that are taken to determine the net Loading shall always be 24-hour composite samples made up of at least six increments taken at regular intervals throughout the plant day.

"MGD" means million gallons per day.

"mg/l" means milligrams per liter.

"ug/l" means micrograms per liter.

"Reporting Code" is a five digit number used by the Ohio EPA in processing reported data. The reporting code does not imply the type of analysis used nor the sampling techniques employed.

"Quarterly (1/Quarter) sampling frequency" means the sampling shall be done in the months of March, June, August, and December, unless specifically identified otherwise in the Effluent Limitations and Monitoring Requirements table.

"Yearly (1/Year) sampling frequency" means the sampling shall be done in the month of September, unless specifically identified otherwise in the effluent limitations and monitoring requirements table.

"Semi-annual (2/Year) sampling frequency" means the sampling shall be done during the months of June and December, unless specifically identified otherwise.

"Winter" shall be considered to be the period from November 1 through April 30.

"Bypass" means the intentional diversion of waste streams from any portion of the treatment facility.

"Summer" shall be considered to be the period from May 1 through October 31.

"Severe property damage" means substantial physical damage to property, damage to the treatment facilities which would cause them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

"Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

2. GENERAL EFFLUENT LIMITATIONS

The effluent shall, at all times, be free of substances:

- A. In amounts that will settle to form putrescent, or otherwise objectionable, sludge deposits; or that will adversely affect aquatic life or water fowl;
- B. Of an oily, greasy, or surface-active nature, and of other floating debris, in amounts that will form noticeable accumulations of scum, foam or sheen;
- C. In amounts that will alter the natural color or odor of the receiving water to such degree as to create a nuisance;
- D. In amounts that either singly or in combination with other substances are toxic to human, animal, or aquatic life;
- E. In amounts that are conducive to the growth of aquatic weeds or algae to the extent that such growths become inimical to more desirable forms of aquatic life, or create conditions that are unsightly, or constitute a nuisance in any other fashion;
- F. In amounts that will impair designated instream or downstream water uses.

3. FACILITY OPERATION AND QUALITY CONTROL

All wastewater treatment works shall be operated in a manner consistent with the following:

- A. At all times, the permittee shall maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems installed or used by the permittee necessary to achieve compliance with the terms and conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with conditions of the permit.
- B. The permittee shall effectively monitor the operation and efficiency of treatment and control facilities and the quantity and quality of the treated discharge.
- C. Maintenance of wastewater treatment works that results in degradation of effluent quality shall be scheduled during non-critical water quality periods and shall be carried out in a manner approved by Ohio EPA as specified in the Paragraph in the PART III entitled, "UNAUTHORIZED DISCHARGES".

4. REPORTING

- A. Monitoring data required by this permit may be submitted in hardcopy format on the Ohio EPA 4500 report form pre-printed by Ohio EPA or an approved facsimile. Ohio EPA 4500 report forms for each individual sampling station are to be received no later than the 15th day of the month following the month-of-interest. The original report form must be signed and mailed to:

Ohio Environmental Protection Agency
Lazarus Government Center
Division of Surface Water
Enforcement Section ES/MOR
P.O. Box 1049
Columbus, Ohio 43216-0149

Monitoring data may also be submitted electronically using Ohio EPA developed SWIMware software. Data must be transmitted to Ohio EPA via electronic mail or the bulletin board system by the 20th day of the month following the month-of-interest. A Surface Water Information Management System (SWIMS) Memorandum of Agreement (MOA) must be signed by the responsible official and submitted to Ohio EPA to receive an authorized Personal Identification Number (PIN) prior to sending data electronically. A hardcopy of the Ohio EPA 4500 form must be generated via SWIMware, signed and maintained onsite for records retention purposes.

B. If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified below, the results of such monitoring shall be included in the calculation and reporting of the values required in the reports specified above.

C. Analyses of pollutants not required by this permit, except as noted in the preceding paragraph, shall not be reported on Ohio EPA report form (4500) but records shall be retained as specified in the paragraph entitled "RECORDS RETENTION".

5. SAMPLING AND ANALYTICAL METHOD

Samples and measurements taken as required herein shall be representative of the volume and nature monitored flow. Test procedures for the analysis of pollutants shall conform to regulation 40 CFR 136, "Test Procedures For The Analysis of Pollutants" unless other test procedures have been specified in this permit. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and instrumentation at intervals to insure accuracy of measurements.

6. RECORDING OF RESULTS

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- A. The exact place and date of sampling; (time of sampling not required on EPA 4500)
- B. The person(s) who performed the sampling or measurements;
- C. The date the analyses were performed on those samples;
- D. The person(s) who performed the analyses;
- E. The analytical techniques or methods used; and
- F. The results of all analyses and measurements.

7. RECORDS RETENTION

The permittee shall retain all of the following records for the wastewater treatment works for a minimum of three years, including:

- A. All sampling and analytical records (including internal sampling data not reported);
- B. All original recordings for any continuous monitoring instrumentation;
- C. All instrumentation, calibration and maintenance records;
- D. All plant operation and maintenance records;
- E. All reports required by this permit; and
- F. Records of all data used to complete the application for this permit for a period of at least three years from the date of the sample, measurement, report, or application.

These periods will be extended during the course of any unresolved litigation, or when requested by the Regional Administrator or the Ohio EPA. The three year period for retention of records shall start from the date of sample, measurement, report, or application.

8. AVAILABILITY OF REPORTS

Except for data determined by the Ohio EPA to be entitled to confidential status, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the appropriate district offices of the Ohio EPA. Both the Clean Water Act and Section 6111.05 Ohio Revised Code state that effluent data and receiving water quality data shall not be considered confidential.

9. DUTY TO PROVIDE INFORMATION

The permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking, and reissuing, or terminating the permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

10. RIGHT OF ENTRY

The permittee shall allow the Director or an authorized representative upon presentation of credentials and other documents as may be required by law to:

- A. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit.
- B. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit.
- C. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit.
- D. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location.

11. UNAUTHORIZED DISCHARGES

A. Bypassing or diverting of wastewater from the treatment works is prohibited unless:

1. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
2. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of downtime. This condition is not satisfied if adequate back up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

3. The permittee submitted notices as required under paragraph D. of this section,

B. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass.

C. The Director may approve an unanticipated bypass after considering its adverse effects, if the Director determines that it has met the three conditions listed in paragraph 11.A. of this section.

D. The permittee shall submit notice of an unanticipated bypass as required in section 12. A.

E. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded if that bypass is for essential maintenance to assure efficient operation.

12. NONCOMPLIANCE NOTIFICATION

A. The permittee shall by telephone report any of the following within twenty-four (24) hours of discovery at (toll free) 1-800-282-9378:

1. Any noncompliance which may endanger health or the environment;
2. Any unanticipated bypass which exceeds any effluent limitation in the permit; or
3. Any upset which exceeds any effluent limitation in the permit.
4. Any violation of a maximum daily discharge limitation for any of the pollutants listed by the Director in the permit.

B. For the telephone reports required by Part 12.A., the following information must be included:

1. The times at which the discharge occurred, and was discovered;
2. The approximate amount and the characteristics of the discharge;
3. The stream(s) affected by the discharge;
4. The circumstances which created the discharge;
5. The names and telephone numbers of the persons who have knowledge of these circumstances;
6. What remedial steps are being taken; and
7. The names and telephone numbers of the persons responsible for such remedial steps.

C. These telephone reports shall be confirmed in writing within five days of the discharge and submitted to the appropriate Ohio EPA district office. The report shall include the following:

1. The limitation(s) which has been exceeded;
2. The extent of the exceedance(s);
3. The cause of the exceedance(s);
4. The period of the exceedance(s) including exact dates and times;
5. If uncorrected, the anticipated time the exceedance(s) is expected to continue, and
6. Steps being taken to reduce, eliminate, and/or prevent occurrence of the exceedance(s).

D. Compliance Schedule Events:

If the permittee is unable to meet any date for achieving an event, as specified in the schedule of compliance, the permittee shall submit a written report to the appropriate district office of the Ohio EPA within 14 days of becoming aware of such situation. The report shall include the following:

1. The compliance event which has been or will be violated;
2. The cause of the violation;
3. The remedial action being taken;
4. The probable date by which compliance will occur; and
5. The probability of complying with subsequent and final events as scheduled.

E. The permittee shall report all instances of noncompliance not reported under paragraphs A, B, or C of this section, at the time monitoring reports are submitted. The reports shall contain the information listed in paragraphs B and C of this section.

F. Where the permittee becomes aware that it failed to submit any relevant application or submitted incorrect information in a permit application or in any report to the director, it shall promptly submit such facts or information.

13. RESERVED

14. DUTY TO MITIGATE

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

15. AUTHORIZED DISCHARGES

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than, or at a level in excess of, that authorized by this permit shall constitute a violation of the terms and conditions of this permit. Such violations may result in the imposition of civil and/or criminal penalties as provided for in Section 309 of the Act and Ohio Revised Code Sections 6111.09 and 6111.99.

16. DISCHARGE CHANGES

The following changes must be reported to the appropriate Ohio EPA district office as soon as practicable:

A. For all treatment works, any significant change in character of the discharge which the permittee knows or has reason to believe has occurred or will occur which would constitute cause for modification or revocation and reissuance. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. Notification of permit changes or anticipated noncompliance does not stay any permit condition.

B. For publicly owned treatment works:

1. Any proposed plant modification, addition, and/or expansion that will change the capacity or efficiency of the plant;
2. The addition of any new significant industrial discharge; and
3. Changes in the quantity or quality of the wastes from existing tributary industrial discharges which will result in significant new or increased discharges of pollutants.

C. For non-publicly owned treatment works any proposed facility expansions, production increases, or process modifications, which will result in new, different, or increased discharges of pollutants.

Following this notice, modifications to the permit may be made to reflect any necessary changes in permit conditions, including any necessary effluent limitations for any pollutants not identified and limited herein. A determination will also be made as to whether a National Environmental Policy Act (NEPA) review will be required. Sections 6111.44 and 6111.45, Ohio Revised Code, require that plans for treatment works or improvements to such works be approved by the Director of the Ohio EPA prior to initiation of construction.

D. In addition to the reporting requirements under 40 CFR 122.41(l) and per 40 CFR 122.42(a), all existing manufacturing, commercial mining, and silvicultural dischargers must notify the Director as soon as they know or have reason to believe:

1. That any activity has occurred or will occur which would result in the discharge on a routine or frequent basis of any toxic pollutant which is not limited in the permit. If that discharge will exceed the highest of the "notification levels" specified in 40 CFR Sections 122.42(a)(1)(i) through 122.42(a)(1)(iv).
2. That any activity has occurred or will occur which would result in any discharge, on a non-routine or infrequent basis, of a toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the "notification levels" specified in 122.42(a)(2)(i) through 122.42(a)(2)(iv).

17. TOXIC POLLUTANTS

The permittee shall comply with effluent standards or prohibitions established under Section 307 (a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement. Following establishment of such standards or prohibitions, the Director shall modify this permit and so notify the permittee.

18. PERMIT MODIFICATION OR REVOCATION

A. After notice and opportunity for a hearing, this permit may be modified or revoked, by the Ohio EPA, in whole or in part during its term for cause including, but not limited to, the following:

1. Violation of any terms or conditions of this permit;
2. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
3. Change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge.

B. Pursuant to rule 3745-33-04, Ohio Administrative Code, the permittee may at any time apply to the Ohio EPA for modification of any part of this permit. The filing of a request by the permittee for a permit modification or revocation does not stay any permit condition. The application for modification should be received by the appropriate Ohio EPA district office at least ninety days before the date on which it is desired that the modification become effective. The application shall be made only on forms approved by the Ohio EPA.

19. TRANSFER OF OWNERSHIP OR CONTROL

This permit may be transferred or assigned and a new owner or successor can be authorized to discharge from this facility, provided the following requirements are met:

A. The permittee shall notify the succeeding owner or successor of the existence of this permit by a letter, a copy of which shall be forwarded to the appropriate Ohio EPA district office. The copy of that letter will serve as the permittee's notice to the Director of the proposed transfer. The copy of that letter shall be received by the appropriate Ohio EPA district office sixty (60) days prior to the proposed date of transfer;

B. A written agreement containing a specific date for transfer of permit responsibility and coverage between the current and new permittee (including acknowledgement that the existing permittee is liable for violations up to that date, and that the new permittee is liable for violations from that date on) shall be submitted to the appropriate Ohio EPA district office within sixty days after receipt by the district office of the copy of the letter from the permittee to the succeeding owner;

At anytime during the sixty (60) day period between notification of the proposed transfer and the effective date of the transfer, the Director may prevent the transfer if he concludes that such transfer will jeopardize compliance with the terms and conditions of the permit. If the Director does not prevent transfer, he will modify the permit to reflect the new owner.

20. OIL AND HAZARDOUS SUBSTANCE LIABILITY

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Clean Water Act.

21. SOLIDS DISPOSAL

Collected screenings, slurries, sludges, and other solids shall be disposed of in such a manner as to prevent entry of those wastes into waters of the state. For publicly owned treatment works, these shall be disposed of in accordance with the approved Ohio EPA Sludge Management Plan.

22. CONSTRUCTION AFFECTING NAVIGABLE WATERS

This permit does not authorize or approve the construction of any onshore or offshore physical structures or facilities or the undertaking of any work in any navigable waters.

23. CIVIL AND CRIMINAL LIABILITY

Except as exempted in the permit conditions on UNAUTHORIZED DISCHARGES or UPSETS, nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

24. STATE LAWS AND REGULATIONS

Nothing in this permit shall be construed to preclude the institution of any legal action nor relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state law or regulation under authority preserved by Section 510 of the Clean Water Act.

25. PROPERTY RIGHTS

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations.

26. UPSET

The provisions of 40 CFR Section 122.41(n), relating to "Upset," are specifically incorporated herein by reference in their entirety. For definition of "upset," see Part III, Paragraph 1, DEFINITIONS.

27. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

28. SIGNATORY REQUIREMENTS

All applications submitted to the Director shall be signed and certified in accordance with the requirements of 40 CFR 122.22.

All reports submitted to the Director shall be signed and certified in accordance with the requirements of 40 CFR Section 122.22.

29. OTHER INFORMATION

A. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information.

B. ORC 6111.99 provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$25,000 per violation.

C. ORC 6111.99 states that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than \$25,000 per violation.

D. ORC 6111.99 provides that any person who violates Sections 6111.04, 6111.042, 6111.05, or division (A) of Section 6111.07 of the Revised Code shall be fined not more than \$25,000 or imprisoned not more than one year, or both.

30. NEED TO HALT OR REDUCE ACTIVITY

40 CFR 122.41(c) states that it shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with conditions of this permit.

31. APPLICABLE FEDERAL RULES

All references to 40 CFR in this permit mean the version of 40 CFR which is effective as of the effective date of this permit.

Part IV. STORM WATER POLLUTION PREVENTION PLANS

A storm water pollution prevention plan (plan) shall be developed to address each outfall that discharges to waters of the state that contains storm water associated with industrial activity. Storm water pollution prevention plans shall be prepared in accordance with good engineering practices. The plan shall identify potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges associated with industrial activity from the facility. In addition, the plan shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit. Facilities must implement the provisions of the storm water pollution prevention plan required under this part as a condition of this permit.

A. Deadlines for Plan Preparation and Compliance.

1. The plan for a storm water discharge associated with industrial activity:
 - a. shall be prepared within six months of the effective date of this permit (and updated as appropriate);
 - b. shall provide for implementation and compliance with the terms of the plan within twelve months of the effective date of this permit.
2. Upon a showing of good cause, the Director may establish a later date for preparing and compliance with a plan for a storm water discharge associated with industrial activity.

B. Signature and Plan Review.

1. The plan shall be signed in accordance with Part VI, and be retained on-site at the facility which generates the storm water discharge.
2. The permittee shall make plans available upon request to the Ohio EPA Director, or authorized representative, or Regional Administrator of U.S. EPA, or in the case of a storm water discharge associated with industrial activity which discharges through a municipal separate storm sewer system, to the operator of the municipal system.
3. The Director may notify the permittee at any time that the plan does not meet one or more of the minimum requirements of this Part. Within 30 days of such notification from the Director, the permittee shall make the required changes to the plan and shall submit to the Director a written certification that the requested changes have been made.
4. All storm water pollution prevention plans required under this permit are considered reports that shall be available to the public under Section 308(b) of the Act. The permittee may claim any portion of a storm water pollution plan as confidential in accordance with 40 CFR Part 2 and does not have to release any portion of the plan describing facility security measures (such as provided for in Part IV.D.7.b.(8) of this permit). An interested party wishing a copy of a discharger's SWP3 will have to contact the Ohio EPA to obtain a copy.

C. Keeping Plans Current.

The permittee shall amend the plan whenever there is a change in design, construction, operation, or maintenance, that has a significant effect on the potential for the discharge of pollutants to the waters of the State or if the storm water pollution prevention plan proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified under Part IV.D.2 of this permit, or otherwise achieving the general objectives of controlling pollutants in storm water discharges associated with industrial activity. Amendments to the plan may be reviewed by Ohio EPA in the same manner as Part IV.B above.

D. Contents of Plan. The plan shall include, at a minimum, the following items:

1. Pollution Prevention Team - Each plan shall identify a specific individual or individuals within the facility organization as members of a storm water Pollution Prevention Team that are responsible for developing the storm water pollution prevention plan and assisting the facility or plant manager in its implementation, maintenance, and revision. The plan shall clearly identify the responsibilities of each team member. The activities and responsibilities of the team shall address all aspects of the facility's storm water pollution prevention plan.
2. Description of Potential Pollutant Sources. Each plan shall provide a description of potential sources which may reasonably be expected to add significant amounts of pollutants to storm water discharges or which may result in the discharge of pollutants during dry weather from separate storm sewers draining the facility. Each plan shall identify all activities and significant materials which may potentially be significant pollutant sources. Each plan shall include, at a minimum:

Part IV. STORM WATER POLLUTION PREVENTION PLANS (continued)

D. (continued)

a. Drainage.

- (1) A site map indicating an outline of the drainage area of each storm water outfall, each existing structural control measure to reduce pollutants in storm water runoff, surface water bodies, locations where significant materials are exposed to precipitation, locations where major spills or leaks identified under Part IV.D.2.c of this permit have occurred, and the locations of the following activities where such activities are exposed to precipitation: fueling stations, vehicle

and equipment maintenance and/or cleaning areas, loading/unloading areas, locations used for the treatment, storage or disposal of wastes, liquid storage tanks, processing areas and storage areas.

- (2) For each area of the facility that generates storm water discharges associated with industrial activity with a reasonable potential for containing significant amounts of pollutants, a prediction of the direction of flow, and an estimate of the types of pollutants which are likely to be present in storm water discharges associated with industrial activity. Flows with a significant potential for causing erosion shall be identified.

- ###### b. Inventory of Exposed Materials.
- An inventory of the types of materials handled at the site that potentially may be exposed to precipitation. Such inventory shall include a narrative description of significant materials that have been handled, treated, stored or disposed in a manner to allow exposure to storm water between the time of three years prior to the date of the issuance of this permit and the present; method and location of on-site storage or disposal; materials management practices employed to minimize contact of materials with storm water runoff between the time of three years prior to the date of the issuance of this permit and the present; the location and a description of existing structural and non-structural control measures to reduce pollutants in storm water runoff; and a description of any treatment the storm water receives.

- ###### c. Spills and Leaks.
- A list of significant spills and significant leaks of toxic or hazardous pollutants that occurred at the facility after the date of three years prior to the effective date of this permit.

- ###### d. Sampling Data.
- A summary of existing discharge sampling data describing pollutants in storm water discharges from the facility.

- ###### e. Risk Identification and Summary of Potential Pollutant Sources.
- A narrative description of the potential pollutant sources at the following areas: loading and unloading operations; outdoor storage activities; outdoor manufacturing or processing activities; significant dust or particulate generating processes; and on-site waste disposal practices. The description shall specifically list any significant potential source of pollutants at the site and for each potential source, any pollutant or pollutant parameter (e.g. biochemical oxygen demand, etc.) of concerns shall be identified.

- ### 3. Measures and Controls.
- Each facility covered by this permit shall develop a description of storm water management controls appropriate for the facility, and implement such controls. The appropriateness and priorities of controls in a plan shall reflect identified potential sources of pollutants at the facility. The description of storm water management controls shall address the following minimum components, including a schedule for implementing such controls:

- #### a. Good Housekeeping
- Good housekeeping requires the maintenance of a clean, orderly facility.

- #### b. Preventive Maintenance
- A preventive maintenance program shall involve inspection and maintenance of storm water management devices (e.g. cleaning oil/water separators, catch basins) as well as inspecting and testing facility equipment and systems to uncover conditions that could cause breakdowns or failures resulting in discharges of pollutants to surface waters, and ensuring appropriate maintenance of such equipment and systems.

- #### c. Spill Prevention and Response Procedures
- Areas where potential spills can occur, and their accompanying drainage points shall be identified clearly in the storm water pollution prevention plan. Where appropriate, specifying material handling procedures, storage requirements, and use of equipment such as diversion valves in the plan should be considered. Procedures for cleaning up spills shall be identified in the plan and made available to the appropriate personnel. The necessary equipment to implement a clean up should be available to personnel.

Part IV. STORM WATER POLLUTION PREVENTION PLANS (continued)

D. (continued)

- d. Inspections - In addition to or as part of the comprehensive site evaluation required under Part IV.4. of this permit, qualified facility personnel shall be identified to inspect designated equipment and areas of the facility at appropriate intervals specified in the plan. A set of tracking or follow-up procedures shall be used to ensure that appropriate actions are taken in response to the inspections. Records of inspections shall be maintained.
 - e. Employee Training - Employee training programs shall inform personnel at all levels of responsibility of the components and goals of the storm water pollution prevention plan. Training should address topics such as spill response, good housekeeping and material management practices. The plan shall identify periodic dates for such training.
 - f. Recordkeeping and Internal Reporting Procedures - A description of incidents such as spills, or other discharges, along with other information describing the quality and quantity of storm water discharges shall be included in the plan required under this part. Inspections and maintenance activities shall be documented and records of such activities shall be incorporated into the plan.
 - g. Non-Storm Water Discharges
 - (1) The plan shall include a certification that the discharge has been tested or evaluated for the presence of non-storm water discharges. The certification shall include the identification of potential significant sources of non-storm water at the site, a description of the results of any test and/or evaluation for the presence of non-storm water discharges, the evaluation criteria or testing method used, the date of any testing and/or evaluation, and the on-site drainage points that were directly observed during the test. Such certification may not be feasible if the facility operating the storm water discharge associated with industrial activity does not have access to an outfall, manhole, or other point of access to the ultimate conduit which receives the discharge. In such cases, the source identification section of the storm water pollution plan shall indicate why the certification required by this part was not feasible, along with the identification of potential significant sources of non-storm water at the site. A discharger that is unable to provide the certification required by this paragraph must notify in accordance with Part IV.A of this permit.
 - (2) Except for flows from fire fighting activities, sources of non-storm water listed in Part VI of this permit that are combined with storm water discharges associated with industrial activity must be identified in the plan. The plan shall identify and ensure the implementation of appropriate pollution prevention measures for the non-storm water component(s) of the discharge.
 - h. Sediment and Erosion Control - The plan shall identify areas which, due to topography, activities, or other factors, have a high potential for significant soil erosion, and identify measures to limit erosion.
 - i. Management of Runoff - The plan shall contain a narrative consideration of the appropriateness of traditional storm water management practices (practices other than those which control the source of pollutants) used to divert, infiltrate, reuse, or otherwise manage storm water runoff in a manner that reduces pollutants in storm water discharges from the site. The plan shall provide that measures determined to be reasonable and appropriate shall be implemented and maintained. The potential of various sources at the facility to contribute pollutants to storm water discharges associated with industrial activity (see Parts IV.D.2.(b), (d) and (e) of this permit) shall be considered when determining reasonable and appropriate measures. Appropriate measures may include: including vegetative swales and practices, reuse of collected storm water (such as for a process or as an irrigation source), inlet controls (such as oil/water separators), snow management activities, infiltration devices, and wet detention/retention devices.
4. Comprehensive Site Compliance Evaluation. Qualified personnel shall conduct site compliance evaluations at appropriate intervals specified in the plan, but, except as provided in paragraph IV.D.4.d, in no case less than once a year. Such evaluations shall provide:
- a. Material handling areas and other potential sources of pollution identified in the plan in accordance with paragraph IV.D.2 of this permit shall be visually inspected for evidence of, or the potential for, pollutants entering the drainage system. Structural storm water management measures, sediment and control measures, and other structural pollution prevention measures identified in the plan shall be observed to ensure that they are operating correctly. A visual inspection of equipment needed to implement the plan, such as spill response equipment, shall be made.

Part IV. STORM WATER POLLUTION PREVENTION PLANS (continued)

D. (continued)

- b. Based on the results of the inspection, the description of potential pollutant sources identified in the plan in accordance with paragraph IV.D.2 of this permit and pollution prevention measures and controls identified in the plan in accordance with paragraph IV.D.3 of this permit shall be revised as appropriate within two weeks of such inspection and shall provide for implementation of any changes to the plan in a timely manner, but in no case more than twelve weeks after the inspection.
- c. A report summarizing the scope of the inspection, personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the storm water pollution prevention plan, and actions taken in accordance with paragraph IV.D.4.b of the permit shall be made and retained as part of the storm water pollution prevention plan for at least three years. The report shall be signed in accordance with Part VI.B of this permit.

5. Additional requirements for storm water discharges associated with industrial activity through municipal separate storm sewer systems serving a population of 100,000 or more.

In addition to the applicable requirements of this permit, facilities covered by this permit must comply with applicable requirements in municipal storm water management programs developed under NPDES permits issued for the discharge of the municipal separate storm sewer system that receives the facility's discharge, provided the discharger has been notified of such conditions.

6. Consistency with other plans. Storm water pollution prevention plans may reflect requirements for Spill Prevention Control and Countermeasure (SPCC) plans developed for the facility under section 311 of the Act or Best Management Practices (BMP) Programs otherwise required by a NPDES permit for the facility as long as such requirement is incorporated into the storm water pollution prevention plan.
7. Additional requirements for storm water discharges associated with industrial activity from facilities subject to SARA Title III, Section 313 requirements are not applicable to Section 313 water priority chemicals in gaseous or non-soluble liquid or solid [at atmospheric pressure and temperature] forms. In addition to the requirements of Parts IV.D.1 through 4 of this permit and other applicable conditions of this permit, storm water pollution prevention plans for facilities subject to reporting requirements under SARA Title III, Section 313 for chemicals which are classified as "Section 313 water priority chemicals" in accordance with the definition in Part VI of this permit, shall describe and ensure the implementation of practices which are necessary to provide for conformance with the following guidelines:
 - a. In areas where Section 313 water priority chemicals are stored, processed or otherwise handled, appropriate containment, drainage control and/or diversionary structures shall be provided. At a minimum, one of the following preventive systems or its equivalent shall be used:
 - (1) Curbing, culverting, gutters, sewers or other forms of drainage control to prevent or minimize the potential for storm water run-on to come into contact with significant sources of pollutants; or
 - (2) Roofs, covers or other forms of appropriate protection to prevent storage piles from exposure to storm water, and wind blowing.
 - b. In addition to the minimum standards listed under Part IV.D.7.a of this permit, the storm water pollution prevention plan shall include a complete discussion of measures taken to conform with the following applicable guidelines, other effective storm water pollution prevention procedures, and applicable State rules, regulations and guidelines:
 - (1) Liquid storage areas where storm water comes into contact with any equipment, tank, container, or other vessel used for Section 313 water priority chemicals.
 - (a) No tank or container shall be used for the storage of a Section 313 water priority chemical unless its material and construction are compatible with the material stored and conditions of storage such as pressure and temperature, etc.
 - (b) Liquid storage areas for Section 313 water priority chemicals shall be operated to minimize discharges of Section 313 chemicals. Appropriate measures to minimize discharges of Section 313 chemicals may include secondary containment provided for at least the entire contents of the largest single tank plus sufficient freeboard to allow for precipitation, a strong spill contingency and integrity testing plan, and/or other equivalent measures.

Part IV. STORM WATER POLLUTION PREVENTION PLANS (continued)

D. (continued)

- (2) Material storage areas for Section 313 water priority chemicals other than liquids. Material storage areas for Section 313 water priority chemicals other than liquids which are subject to runoff, leaching, or wind blowing shall incorporate drainage or other control features which will minimize the discharge of Section 313 water priority chemicals by reducing storm water contact with Section 313 water priority chemicals.
- (3) Truck and rail car loading and unloading areas for liquid Section 313 water priority chemicals. Truck and rail car loading and unloading areas for liquid Section 313 water priority chemicals shall be operated to minimize discharges of Section 313 water priority chemicals. Appropriate measures to minimize discharges of Section 313 chemicals may include: the placement and maintenance of drip pans where spillage may occur (such as hose connections, hose reels and filler nozzles) for use when making and breaking hose connections; a strong spill contingency and integrity testing plan; and/or other equivalent measures.
- (4) In facility areas where Section 313 water priority chemicals are transferred, processed or otherwise handled. Processing equipment and materials handling equipment shall be operated so as to minimize discharges of Section 313 water priority chemicals. Materials used in piping and equipment shall be compatible with the substances handled. Drainage from process and materials handling areas shall be designed as described in paragraphs (a), (b) and (c) of this section. Additional protection such as covers or guards to prevent wind blowing, spraying or releases from pressure relief vents from causing a discharge of Section 313 water priority chemicals to the drainage system, and overhangs or door skirts to enclose trailer ends at truck loading/unloading docks shall be provided as appropriate. Visual inspections or leak tests shall be provided for overhead piping conveying Section 313 water priority chemicals without secondary containment.
- (5) Discharges from areas covered by paragraphs (1), (2), (3) or (4).
 - (a) Drainage from areas covered by paragraphs (1), (2), (3) or (4) of this part should be restrained by valves or other positive means to prevent the discharge of a spill or other excessive leakage of Section 313 water priority chemicals. Where containment units are employed, such units may be emptied by pumps or ejectors; however, these shall be manually activated.
 - (b) Flapper-type drain valves shall not be used to drain containment areas. Valves used for the drainage of containment areas should, as far as is practical, be of manual, open-and-closed design.
 - (c) If facility drainage is not engineered as above, the final discharge of all in-facility storm sewers shall be equipped to be equivalent with a diversion system that could, in the event of an uncontrolled spill of Section 313 water priority chemicals, return the spilled material to the facility.
 - (d) Records shall be kept of the frequency and estimated volume (in gallons) of discharges from containment areas.
- (6) Facility site runoff other than from areas covered by (1), (2), (3) or (4). Other areas of the facility (those not addressed in paragraphs (1), (2), (3) or (4)), from which runoff which may contain Section 313 water priority chemicals or spills of Section 313 water priority chemicals could cause a discharge shall incorporate the necessary drainage or other control features to prevent discharge of spilled or improperly disposed material and ensure the mitigation of pollutants in runoff or leachate.

Part IV. STORM WATER POLLUTION PREVENTION PLANS (continued)

D. (continued)

- (7) Preventive maintenance and housekeeping. All areas of the facility shall be inspected at specific intervals for leaks or conditions that could lead to discharges of Section 313 water priority chemicals or direct contact of storm water with raw materials, intermediate materials, waste materials or products. In particular, facility piping, pumps, storage tanks and bins, pressure vessels, process and material handling equipment, and material bulk storage area shall be examined for any conditions or failures which could cause a discharge. Inspection shall include examination for leaks, wind blowing, corrosion, support or foundation failure, or other forms of deterioration or non-containment. Inspection intervals shall be specified in the plan and shall be based on design and operational experience. Different areas may require different inspection intervals. Where a leak or other condition is discovered which may result in significant releases of Section 313 water priority chemicals to the drainage system, corrective action shall be immediately taken or the unit or process shut down until corrective action can be taken. When a leak or non-containment of a Section 313 water priority chemical has occurred, contaminated soil, debris, or other material must be promptly removed and disposed in accordance with Federal, State, and local requirements and as described in the plan.
 - (8) Facility security. Facilities shall have the necessary security systems to prevent accidental or intentional entry which could cause a discharge. Security systems described in the plan shall address fencing, lighting, vehicular traffic control, and securing of equipment and buildings.
 - (9) Training. Facility employees and contractor personnel using the facility shall be trained in and informed of preventive measures at the facility. Employee training shall be conducted at intervals specified in the plan, but not less than once per year, in matters of pollution control laws and regulations, and in the storm water pollution prevention plan and the particular features of the facility and its operation which are designed to minimize discharges of Section 313 water priority chemicals. The plan shall designate a person who is accountable for spill prevention at the facility and who will set up the necessary spill emergency procedures and reporting requirements so that spills and emergency releases of Section 313 water priority chemicals can be isolated and contained before a discharge of a Section 313 water priority chemical can occur. Contractor or temporary personnel shall be informed of facility operation and design features in order to prevent discharges or spills from occurring.
8. Additional Requirements for Salt Storage. Storage piles of salt used for deicing or other commercial or industrial purposes and which generate a storm water discharge associated with industrial activity which is discharged to a waters of the United States shall be enclosed or covered to prevent exposure to precipitation, except for exposure resulting from adding or removing materials from the pile within two years of the effective date of this permit. Piles do not need to be enclosed or covered where storm water from the pile is not discharged to waters of the State.

Part V. NUMERIC EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. Coal Pile Runoff Effluent Limitations. Any discharge of coal pile runoff is authorized to discharge as of the effective date of this permit and shall comply with the following effluent limitations as expeditiously as practicable, but no later than three years after the effective date of this permit. Coal pile runoff shall not be diluted with storm water or other flow in order to meet these limitations.

<u>Units</u>	<u>Parameter</u>	<u>Daily Minimum</u>	<u>Daily Maximum</u>
mg/l	Total Suspended Solids	-	50
S.U.	pH	6.0	9.0

Any untreated overflow from facilities designed, constructed and operated to treat the volume of coal pile runoff which is associated with a 10 year, 24-hour rainfall event shall not be subject to the limitation for total suspended solids. It is the permittee's responsibility to demonstrate to the Ohio EPA that a 10 year, 24-hour rainfall event has occurred and the volume of the overflow to which the Total Suspended Solids effluent limitation does not apply.

B. Monitoring Requirements. Only the activities described in the following matrix and associated definitions are required to conduct monitoring. The monitoring required in the following matrix shall be conducted annually. Monitoring shall be initiated within twelve months of the effective date of this permit and henceforth on an annual basis, weather conditions permitting. A permittee may, in lieu of annual monitoring, certify that industrial materials are not exposed to storm water; such certification shall be submitted to the Ohio EPA upon request of the Director.

1. MONITORING REQUIREMENTS MATRIX

Reporting Units	Parameter	INDUSTRIAL ACTIVITY CATEGORIES											
		a	b ¹	c	d	e	f	g	h	i ¹	j	k	l ¹
mg/l	Oil and Grease		X	X	X	X	X	X	X	X	X	X	X
mg/l	5-day Biochemical Oxygen Demand		X							X		X	
mg/l	Chemical Oxygen Demand		X	X	X	X	X		X	X			X
mg/l	Total Suspended Solids		X		X	X	X	X	X	X	X	X	X
mg/l	Total Kjeldahl Nitrogen			X									X
mg/l	Phosphorus												X
S.U.	pH		X	X	X	X	X	X	X	X	X	X	X
TU _s	Acute Toxicity												
Hours	Duration of Storm Event		X	X	X	X	X	X	X	X	X	X	X
Inches	Precipitation		X	X	X	X	X	X	X	X	X	X	X
Hours	Duration Between Storm Events*		X	X	X	X	X	X	X	X	X	X	X
Gallons	Volume (est)		X	X	X	X	X	X	X	X	X	X	X
mg/l	Nitrate-Nitrogen												
mg/l	Nitrite-Nitrogen												
µg/l	Lead, Total		X	X					X				
µg/l	Cadmium, Total		X ¹	X									
µg/l	Copper, Total		X ¹				X	X	X		X		
µg/l	Arsenic, Total		X ¹	X			X						
µg/l	Chromium, Total		X ¹	X			X						
mg/l	Ammonia												
µg/l	Magnesium, Total			X									

Part V. NUMERIC EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

B. (continued)

Reporting Units	Parameter	INDUSTRIAL ACTIVITY CATEGORIES											
		a	b ¹	c	d	e	f	g	h	i ²	j	k	l ³
ug/l	Magnesium, Dissolved			x									
mg/l	Total Dissolved Solids			x									
mg/l	Total Organic Carbon			x									
ug/l	Barium, Total			x									
mg/l	Cyanide, Total			x									
ug/l	Mercury, Total			x									
ug/l	Selenium, Total			x									
ug/l	Silver, Total			x									
ug/l	Pentachlorophenol				x								
ug/l	Nickel, Total							x			x		
ug/l	Zinc, Total							x			x		
#/100ml	Fecal Coliform											x	

* Time between the storm event when sampling is being conducted and the last storm event produced greater than 0.1 inches.

- (1) and any pollutant limited in an effluent guideline or categorical pretreatment standard which is subject.
- (2) and the primary ingredient used in the deicing materials used at the site (e.g., ethylene glycol etc.).
- (3) Facilities that are classified as SIC 33 only because they manufacture pure silicon and/or sem grade silicon are not required to monitor for this parameter.

2. Industrial Activity Categories Definitions

- a. Section 313 of SARA Title III Facilities. As of the effective date of this permit, facilities with storm water discharges associated with industrial activity that are subject to requirements to report releases into the environment under Section 313 of SARA Title III for chemicals which are classified as 'Section 313 water priority chemicals' are not (as they may have been in a previous permit) required to monitor storm water that is discharged from the facility unless required by paragraphs V.B.2.b through B.2.l.
- b. Primary Metal Industries. Facilities with storm water discharges associated with industrial activity classified as Standard Industrial Classification (SIC) 33 (Primary Metal Industry) are required to monitor such storm water that is discharged from the facility.
- c. Land Disposal Units/Incinerators/BIFs. Facilities with storm water discharges associated with industrial activity from any active or inactive landfill, land application sites or open dump without a stabilized final cover that has received any industrial wastes from a facility with a Standard Industrial Classification (SIC) of between 20-39 (manufacturing); and incinerators (including Boilers and Industrial Furnaces (BIFs)) that burn hazardous waste and operate under interim status or a permit under Subtitle C of RCRA, are required to monitor such storm water that is discharged from the facility.
- d. Wood Treatment Using Chlorophenolic Formulations. Facilities with storm water discharges associated with industrial activity from areas that are used for wood treatment, wood surface application or storage of treated or surface protected wood at any wood preserving or wood surface facilities are required to monitor such storm water that is discharged from the facility.
- e. Wood Treatment Using Creosote Formulations. Facilities with storm water discharges associated with industrial activity from areas that are used for wood treatment, wood surface application or storage of treated or surface protected wood at any wood preserving or wood surface facilities are required to monitor such storm water that is discharged from the facility.

Part V. NUMERIC EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

B. (continued)

- f. **Wood Treatment Using Chromium-Arsenic Formulations.** Facilities with storm water discharges associated with industrial activity from areas that are used for wood treatment, wood surface application or storage of treated or surface protected wood at any wood preserving or wood surface facilities are required to monitor such storm water that is discharged from the facility.
- g. **Coal Pile Runoff.** Facilities with storm water discharges associated with industrial activity from coal pile runoff are required to monitor such storm water that is discharged from the facility.
- h. **Battery Reclaimers.** Facilities with storm water discharges associated with industrial activity from areas used for storage of lead acid batteries, reclamation products, or waste products, and areas used for lead acid battery reclamation (including material handling activities) at facilities that reclaim lead acid batteries are required to monitor such storm water that is discharged from the facility.
- i. **Airports.** At airports with over 50,000 flight operations per year, facilities with storm water discharges associated with industrial activity from areas where aircraft or airport deicing operations occur (including runways, taxiways, ramps, and dedicated aircraft deicing stations) are required to monitor such storm water that is discharged from the facility.
- j. **Coal-fired Steam Electric Facilities.** Facilities with storm water discharges associated with industrial activity from coal handling sites at coal fired steam electric power generating facilities (other than discharges in whole or in part from coal piles subject to storm water effluent guidelines at 40 CFR 423 - which are not eligible for coverage under this permit) are required to monitor such storm water that is discharged from the facility.
- k. **Animal Handling / Meat Packing.** Facilities with storm water discharges associated with industrial activity from animal handling areas, manure management (or storage) areas, and production waste management (or storage) areas that are exposed to precipitation at meat packing plants, poultry packing plants, and facilities that manufacture animal and marine fats and oils, are required to monitor such storm water that is discharged from the facility.
- l. **Additional Facilities.** Facilities with storm water discharges associated with industrial activity that:
 - (1) come in contact with storage piles for solid chemicals used as raw materials that are exposed to precipitation at facilities classified as SIC 30 (Rubber and Miscellaneous Plastics Products) or SIC 28 (Chemicals and Allied Products);
 - (2) are from those areas at automobile junkyards with any of the following: (A) over 250 auto/truck bodies with drivelines (engine, transmission, axles, and wheels), 250 drivelines, or any combination thereof (in whole or in parts) are exposed to storm water; (B) over 500 auto/truck units (bodies with or without drivelines in whole or in parts) are stored exposed to storm water; or (C) over 100 units per year are dismantled and drainage or storage of automotive fluids occurs in areas exposed to storm water;
 - (3) come into contact with lime storage piles that are exposed to storm water at lime manufacturing facilities;
 - (4) are from oil handling sites at oil fired steam electric power generating facilities;
 - (5) are from cement manufacturing facilities and cement kilns (other than discharges in whole or in part from material storage piles subject to storm water effluent guidelines at 40 CFR 411 - which are not eligible for coverage under this permit);
 - (6) are from ready-mixed concrete facilities; or
 - (7) are from ship building and repairing facilities;are required to monitor such storm water discharged from the facility.

Part V. NUMERIC EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

B. (continued)

3. **Sample Type.** Take a minimum of one grab sample from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. The grab sample shall be taken during the first thirty minutes of the discharge. If the collection of a grab sample during the first thirty minutes is impracticable, a grab sample can be taken during the first hour of the discharge, and the discharger shall submit with the monitoring report a description of why a grab sample during the first thirty minutes was impracticable.
4. **Sampling Waiver.** When a discharger is unable to collect samples due to adverse climatic conditions, the discharger must submit in lieu of sampling data a description of why samples could not be collected, including available documentation of the event. Adverse climatic conditions which may prohibit the collection of samples includes weather conditions that create dangerous conditions for personnel (such as local flooding, high winds, hurricane, tornadoes, electrical storms, etc.) or otherwise make the collection of a sample impracticable (drought, extended frozen conditions, etc.).
5. **Representative Discharge.** When a facility has two or more outfalls that, based on a consideration of features and activities within the area drained by the outfall, the permittee reasonably believes discharge substantially identical effluents, the permittee may test the effluent of one of such outfalls and report that the quantitative data also applies to the substantially identical outfalls. In addition, for each outfall that the permittee believes is representative, an estimate of the size of the drainage area (in square feet) and an estimate of the runoff coefficient of the drainage area (e.g. low (under 40%), medium (40% to 65%) or high (above 65%)) shall be provided.

C. Toxicity Testing. Not Required.

- D. Alternative Certification of "Not Present or No Exposure."** You are not subject to the analytical monitoring requirement of this part provided: you make a certification for a given outfall, or on a pollutant-by-pollutant basis in lieu of monitoring required under this part, that material handling equipment or activities, raw materials, intermediate products, final products, waste materials, by-products, industrial machinery or operations, or significant materials from past industrial activity that are located in areas of the facility within the drainage area of the outfall are not presently exposed to storm water and are not expected to be exposed to storm water for the certification period; and your certification is signed in accordance with Attachment VI.G and retained in the SWP3. If you cannot certify for an entire period, you must note the date exposure was eliminated and perform any monitoring required up until that date.

Part VI. OTHER STORM WATER REQUIREMENTS, DEFINITIONS AND AUTHORIZATION

- A. Failure to Certify.** Any facility that is unable to provide the certification required under paragraph IV.D.3.g.(1) (testing for non-storm water discharges), must notify the Director within 180 days of the effective date of this permit. Such notification shall describe: the procedure of any test conducted for the presence of non-storm water discharges; the results of such test or other relevant observations; potential sources of non-storm water discharges to the storm sewer; and why adequate tests for such storm sewers were not feasible.
- B. Signatory Requirements.** See Part III.28.
- C. Definitions.**

"Section 313 water priority chemical" means a chemical or chemical categories which are: 1) are listed at 40 CFR 372.65 pursuant to Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986, also titled the Emergency Planning and Community Right-to-Know Act of 1986; 2) are present at or above threshold levels at a facility subject to SARA Title III, Section 313 reporting requirements; and 3) that meet at least one of the following criteria: (i) are listed in Appendix D of 40 CFR 122 on either Table II (organic priority pollutants), Table III (certain metals, cyanides, and phenols) or Table V (certain toxic pollutants and hazardous substances); (ii) are listed as a hazardous substance pursuant to section 311(b)(2)(A) of the Act at 40 CFR 116.4; or (iii) are pollutants for which EPA has published acute or chronic water quality criteria.

"Significant materials" includes, but is not limited to: raw materials; fuels; materials such as solvents, detergents, and plastic pellets; finished materials such as metallic products; raw materials used in food processing or production; hazardous substances designated under section 101(14) of CERCLA; any chemical the facility is required to report pursuant to Section 313 of Title III of SARA; fertilizers; pesticides; and waste products such as ashes, slag and sludge that have the potential to be released with storm water discharges.

"Significant spills" includes, but is not limited to: releases of oil or hazardous substances in excess of reportable quantities under section 311 of the Clean Water Act (see 40 CFR 110.10 and CFR 117.21) or section 102 of CERCLA (see 40 CFR 302.4).

"Storm Water" means storm water runoff, snow melt runoff, and surface runoff and drainage.

"Definition of Storm Water Associated with Industrial Activity" means the discharge from any conveyance which is used for collecting and conveying storm water and which is directly related to manufacturing, processing or raw materials storage areas at an industrial plant. The term does not include discharges from facilities or activities excluded from the NPDES program. For the categories of industries identified in subparagraphs (i) through (x) of this subsection, the term includes, but is not limited to, storm water discharges from industrial plant yards; immediate access roads and rail lines used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility; material handling sites; refuse sites; sites used for the application or disposal of process waste waters (as defined at 40 CFR 401); sites used for the storage and maintenance of material handling equipment; sites used for residual treatment, storage, or disposal; shipping and receiving areas; manufacturing buildings; storage areas (including tank farms) for raw materials, and intermediate and finished products; and areas where industrial activity has taken place in the past and significant materials remain and are exposed to storm water. For the categories of industries identified in subparagraph (xi), the term includes only storm water discharges from all areas listed in the previous sentence (except access roads) where material handling equipment or activities, raw materials, intermediate products, final products, waste materials, by-products, or industrial machinery are exposed to storm water. For the purposes of this paragraph, material handling activities include the: storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, finished product, by-product or waste product. The term excludes areas located on plant lands separate from the plant's industrial activities, such as office buildings and accompanying parking lots as long as the drainage from the excluded areas is not mixed with storm water drained from the above described areas. Industrial facilities (including industrial facilities that are Federally or municipally owned or operated that meet the description of the facilities listed in this paragraph (i)-(xi)) include those facilities designated under 40 CFR 122.26(a)(1)(v). The following categories of facilities are considered to be engaging in "industrial activity" for purposes of this subsection:

- (i) Facilities subject to storm water effluent limitations guidelines, new source performance standards, or toxic pollutant effluent standards under 40 CFR Subchapter N (except facilities with toxic pollutant effluent standards which are exempted under category (xi) of this paragraph);
- (ii) Facilities classified as Standard Industrial Classifications 24 (except 2434), 26 (except 265 and 267), 28 (except 283 and 285) 29, 311, 32 (except 323), 33, 3441, 373;

Part VI. OTHER STORM WATER REQUIREMENTS, DEFINITIONS AND AUTHORIZATION (continued)

C. (continued)

- (iii) Facilities classified as Standard Industrial Classifications 10 through 14 (mineral industry) including active or inactive mining operations (except for areas of coal mining operations meeting the definition of a reclamation area under 40 CFR 434.11(l)) and oil and gas exploration, production, processing, or treatment operations, or transmission facilities that discharge storm water contaminated by contact with or that has come into contact with, any overburden, raw material, intermediate products, finished products, byproducts or waste products located on the site of such operations; inactive mining operations are mining sites that are not being actively mined, but which have an identifiable owner/operator;
- (iv) Hazardous waste treatment, storage, or disposal facilities, including those that are operating under interim status or a permit under Subtitle C of RCRA;
- (v) Landfills, land application sites, and open dumps that have received any industrial wastes (waste that is received from any of the facilities described under this subsection) including those that are subject to regulation under Subtitle D of RCRA;
- (vi) Facilities involved in the recycling of materials, including metal scrapyards, battery reclaimers, salvage yards, and automobile junkyards, including but not limited to those classified as Standard Industrial Classification 5015 and 5093;
- (vii) Steam electric power generating facilities, including coal handling sites;
- (viii) Transportation facilities classified as Standard Industrial Classifications 40, 41, 42 (except 4221-25), 43, 44, 45, and 5171 which have vehicle maintenance shops, equipment cleaning operations, or airport deicing operations. Only those portions of the facility that are either involved in vehicle maintenance (including vehicle rehabilitation, mechanical repairs, painting, fueling, and lubrication), equipment cleaning operations, airport deicing operations, or which are otherwise identified under paragraphs (i)-(vii) or (ix)-(xi) of this subsection are associated with industrial activity;
- (ix) Treatment works treating domestic sewage or any other sewage sludge or wastewater treatment device or system, used in the storage treatment, recycling, and reclamation of municipal or domestic sewage, including land dedicated to the disposal of sewage sludge that are located within the confines of the facility, with a design flow of 1.0 mgd or more, or required to have an approved pretreatment program under 40 CFR 403. Not included are farm lands, domestic gardens or lands used for sludge management where sludge is beneficially reused and which are not physically located in the confines of the facility, or areas that are in compliance with 40 CFR 503;
- (x) Construction activity - This category of industrial activity is not regulated under this permit.
- (xi) Facilities under Standard Industrial Classifications 20, 21, 22, 23, 2434, 25, 265, 267, 27, 283, 285, 30, 31 (except 311), 34 (except 3441), 35, 36, 37 (except 373), 38, 39, 4221-25, (and which are not otherwise included within categories (ii)-(x)).

"SWPPP" means storm water pollution prevention plan to be completed as a condition of this permit (see Part IV of this permit).

"Time-weighted composite" means a composite sample consisting of a mixture of equal volume aliquots collected at a constant time interval.

"Waste pile" means any non-containerized accumulation of solid, non-flowing waste that is used for treatment or storage.

"10-year, 24-hour precipitation event" means the maximum 24-hour precipitation event with a probable reoccurrence interval of once in 10 years. This information is available in "Weather Bureau Technical Paper No. 40," May 1961 and "NOAA Atlas 2," 1973 for the 11 Western States, and may be obtained from the National Climatic Center of the Environmental Data Service, National Oceanic and Atmospheric Administration, U.S. Department of Commerce.

"Bypass" means the intentional diversion of waste streams from any portion of the treatment facility.

"Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

National Pollutant Discharge Elimination System (NPDES) Permit Program

FACT SHEET ADDENDUM

Regarding an NPDES Permit To Discharge to Waters of the State of Ohio
for LTV Steel Company

Public Notice No.: 01-04-057
Public Notice Date: April 11, 2001
Comment Period Ends: May 11, 2001

OEPA Permit No.: 3ID00003*LD
Application No.: OH0000957

Name and Address of Applicant:

LTV Steel Company
3100 East 45th Street
Cleveland, Ohio 44127

Name and Address of Facility Where
Discharge Occurs:

LTV Steel Company
3100 East 45th Street
Cleveland, Ohio
Cuyahoga County

Receiving Water: Cuyahoga River

Subsequent
Stream Network: Lake Erie

Introduction

Ohio EPA issued a draft version of this permit for public notice, along with associated Director's Final Findings and Orders (DFFOs), on November 15, 1999. The DFFOs were drafted to implement a 301(g) variance originally requested by LTV Steel in 1983. This new draft permit would incorporate the 301(g) variance conditions into the permit itself, making the DFFOs unnecessary. In addition, the new draft incorporates conditions for toxicity monitoring and limits and outfalls 022 and 027 that are required by federal reasonable potential rules promulgated by USEPA on August 4, 2000 for the Lake Erie Basin portions of Ohio. It also corrects typographical errors in the original draft. The original permit limit justifications are listed in the fact sheet issued with the November 1999 public notice.

Development of a Fact Sheet for NPDES permits is mandated by Title 40 of the Code of Federal Regulations, Section 124.8 and 124.56. This document fulfills the requirements established in those regulations by providing the information necessary to inform the public of actions proposed by the Ohio Environmental Protection Agency, as well as the methods by which the public can participate in the process of finalizing those actions.

This Fact Sheet is prepared in order to document the technical basis and risk management decisions that are considered in the determination of water quality based NPDES Permit effluent limitations. The technical basis for the Fact Sheet may consist of evaluations of promulgated effluent guidelines, existing effluent quality, instream biological, chemical and physical conditions, and the relative risk of alternative effluent limitations. This Fact Sheet details the discretionary decision-making process empowered to the Director by the Clean Water Act and Ohio Water Pollution Control Law (ORC 6111). Decisions to award variances to Water Quality Standards or promulgated effluent guidelines for economic or technological reasons will also be justified in the Fact Sheet where necessary.

Procedures for Participation in the Formulation of Final Determinations

The draft action shall be issued as a final action unless the Director revises the draft after consideration of the record of a public meeting or written comments, or upon disapproval by the Administrator of the U.S. Environmental Protection Agency.

Within thirty days of the date of the Public Notice, any person may request or petition for a public meeting for presentation of evidence, statements or opinions. The purpose of the public meeting is to obtain additional evidence. Statements concerning the issues raised by the party requesting the meeting are invited. Evidence may be presented by the applicant, the state, and other parties, and following presentation of such evidence other interested persons may present testimony of facts or statements of opinion.

Requests for public meetings shall be in writing and shall state the action of the Director objected to, the questions to be considered, and the reasons the action is contested. Such requests should be addressed to:

**Legal Records Section
Ohio Environmental Protection Agency
P.O. Box 1049
Columbus, Ohio 43216-1049**

Interested persons are invited to submit written comments upon the discharge permit. Comments should be submitted in person or by mail no later than 30 days after the date of this Public Notice. Deliver or mail all comments to:

**Ohio Environmental Protection Agency
Attention: Division of Surface Water
Water Resource Management Section
P.O. Box 1049
Columbus, Ohio 43216-1049**

The OEPA permit number and Public Notice numbers should appear on each page of any submitted comments. All comments received no later than 30 days after the date of the Public Notice will be considered.

The application, fact sheet, public notice, permit including effluent limitations, special conditions, comments received and other documents are available for inspection and may be copied at the Ohio Environmental Protection Agency at the address shown above any time between the hours of 8:00 a.m. and 5:00 p.m., Monday through Friday. Copies of the Public Notice are also available at the same address.

LTV Steel - 301(g) variance review

LTV Steel has had a 301(g) variance request pending with USEPA for several cycles of this permit. For each of the past permits, Ohio EPA has recommended at least a conditional approval of this variance request, and has written Director's Final Findings & Orders (DFFOs) that contain effluent limits based on the variance request. Ohio EPA expected LTV to comply with these limitations instead of those listed in the NPDES permit. The current DFFOs were issued concurrently with the 1994 NPDES permit.

Section 301(g) of the Clean Water Act allows the USEPA Administrator, with the concurrence of the State, to modify BAT limits for certain pollutants provided that the discharge can comply with BPT limits and any applicable WQBELs. In addition, the granting of a 301(g) variance can not result in any additional controls on other point or non-point source. The pollutants that are listed under this variance provision include ammonia-nitrogen and total phenolics.

As part of this permit renewal, Ohio EPA again drafted DFFOs that contained alternate limits associated with this variance. Some of the conditions were proposed to be changed from the 1994 DFFOs, due to either blast furnace shutdowns or treatment process improvements that have occurred since then. USEPA requested that the limits be placed in the NPDES permit for LTV, and committed to act on the variance request. This new draft permit represents the public notice of USEPA's proposed approval of the 310(g) variance, and Ohio EPA's potential concurrence with that determination.

A summary of the analysis is in the attachment to this fact sheet. Ohio EPA is recommending that the variance be approved for ammonia, with certain changes from the current DFFOs. Ohio EPA is not recommending approval of the phenolics variance because it appears that LTV is complying with BAT limitations, and has been since at least 1995. An analysis of LTV monthly operating report data shows that the treatment levels attained at outfalls 604 and 621 vary seasonally, and the recommendations for ammonia have different limits for summer and winter periods.

Limitations for outfall 604/005:

The current limitations for ammonia in the 1994 DFFOs are based on past production and treatment plant performance for the C5/C6 blast furnace discharges. These limits easily meet BPT, and the most recent WLA indicates that they also allow WQS to be met in the Cuyahoga River. Ohio EPA's current recommendations revise the limits for the summer, and reduce slightly the winter maximum limit, based on the performance of the 604 discharge during 1995-98. The recommended limits are based on a PEQ analysis, with a 20% factor added to account for analytical and production variability. The data indicates that LTV will be able to comply with these limits close to 100% of the time.

The WLA value provided is for the 005 effluent; however, data from the blast furnace monitoring study, done by LTV under a Section 308 data request from USEPA, indicates that outfall 604 is the only significant source of ammonia in the effluent. The attached spreadsheet shows that the ammonia discharged at outfall 005 is usually less than the sum of the intake and 604 loadings.

PEQ values were established using Method A from the Ohio EPA guidance, because it provided the best fit for the observed data. All statistical analyses were done on daily load values.

Note that the winter PEQ average values exceed the average limitation in the 1994 DFFOs. It is not clear from these statistics whether or not there are any exceedances of the DFFO limits actually occurring. Ohio EPA has kept the average limit from these DFFOs for the winter period because LTV has not asked

for a load increase in their NPDES application.

Limitations for outfall 027/621:

The limits for this outfall in the 1994 DFFOs are based on 2 blast furnaces discharging process wastewater to the 621 treatment system. Since 1994, the C3 blast furnace has been shut down, which is reflected in the BAT and BPT limit calculations. Ohio EPA did a similar analysis of effluent data to develop PEQ values and add the 20% variability factor. The recommended variance limits are based on this analysis, with the exception of the summer maximum ammonia limit. In this case the effluent performance related limit was more stringent than BAT. The BAT maximum was therefore applied.

The WLA for outfall 027 is met by the variance limits. Even though outfall 027 has sources of ammonia other than 621 (see the blast furnace study data), the WLA would be maintained even with 621 discharging at the variance level and the maximum contribution from other sources occurring at the same time.

PEQ values for the summer season were based on Method B of the modeling guidance. PEQs for the winter period were based on Method A.

Reasonable Potential for Whole Effluent Toxicity

USEPA has disapproved Ohio's procedures under the Great Lakes Initiative that determine whether a discharger's toxicity has the reasonable potential to cause or contribute to exceedances of State Water Quality Standards. When a discharge has the reasonable potential to contribute to exceedances of WQS, the permit must have an effluent limit for toxicity. This disapproval affects all discharges to the Lake Erie Basin. On August 4, 2000, USEPA promulgated reasonable potential procedures for the Lake Erie Basin in Ohio that went into effect on September 5, 2000. Ohio must use these procedures to assess reasonable potential for toxicity in the Lake Erie Basin.

The changes in procedure affect the assessment only of outfalls 022 and 027 at LTV. The previous determination of reasonable potential for outfall 002, and no reasonable for outfall 005 are not affected by the change in procedure.

While both outfall 022 and 027 have had an exceedance of the acute toxicity allocation of 1.0 TUa (acute toxicity units), the data set for each outfall (2 results) is too limited to get an accurate statistical view of the effluent quality. It is possible that the results measured could be outliers or very unusual events, particularly for outfall 027 that is largely once-through cooling water. The new draft permit continues the concept of having limits triggered by toxic events, but revises the trigger language to more closely conform to the federal rule. The multi-factor analysis in the original trigger language has been replaced with an automatic trigger based on any measured toxicity value greater than 1.0 TUa. This trigger conforms to the federal rule by using effluent data multiplied by a statistical uncertainty factor to compare with a wasteload allocation for toxicity. Making decisions based on a significant data set ensures that effluent limits will not be triggered by data outliers, and if toxicity is found, that it is likely that the source of the toxicity can be identified and corrected.

301(g) variance review for LTV Steel - Cleveland Works

all values are kg/day										
Outfall 604										
	BAT	BPT	WLA (summer)	WLA (winter)	PEQ (summer)	PEQ (winter)	Current F&Os w/ 301(g) conditions	Draft F&Os w/ new 301(g) conditions		
								(summer)	(winter)	
Ammonia-N										
30-day	24.66	453	1086	1086	52	128.3	81.6	62.4	81.6	
Daily	73.97	1360	6371	4217	71.3	175.7	244.9	85.56	210.84	
Phenolics										
30-day	0.246	17.7	NA	NA	0.0146	0.0146	0.3	0.246	0.246	
Daily	0.493	52.9	NA	NA	0.0195	0.0195	0.6	0.493	0.493	
Outfall 621										
	BAT	BPT	WLA (summer)	WLA (winter)	PEQ (summer)	PEQ (winter)	Current F&Os w/ 301(g) conditions	Draft F&Os w/ new 301(g) conditions		
								(summer)	(winter)	
Ammonia-N										
30-day	9.61	177	291	291	14.7	41.65	307	17.64	49.98	
Daily	28.8	530	1680	1123	23.1	57.1	726	28.8	68.52	
Phenolics										
30-day	0.096	6.91	NA	NA	0.0031	0.0031	4.53	0.096	0.096	
Daily	0.192	20.6	NA	NA	0.0044	0.0044	9.53	0.192	0.192	
PEQ Summary:1995-98			No outliers in dataset							
Outfall 604	# obs.	# >detec.	Max. (summer)	Max. (winter)	PEQ (summer)	PEQ (winter)	Summer effluent data is June-September Winter effluent data is December-February			
Ammonia-N	59s, 54w	59s, 54w	71.3	175.7						
30-day					52.049	71.3				
Daily					128.261	175.7				
Phenolics	41	9	0.013	0.013						
30-day					0.0146	0.0146				
Daily					0.0195	0.0195				
Outfall 621	# obs.	# >detec.	Max. (summer)	Max. (winter)	PEQ (summer)	PEQ (winter)				
Ammonia-N	61s, 46w	61s, 46w	21.42	57.06						
30-day					14.7	23.1				
Daily					41.6538	57.06				
Phenolics	45	12	0.004	0.004						
30-day					0.0146	0.0146				
Daily					0.0195	0.0195				

LTV Steel Blast Furnace Area

Ammonia Load Balance

DATE	801.000 CONC	801.000 LOAD	604.000 CONC	604 FLOW	604.000 LOAD	TOTAL LOAD	OUT 005 CONC	OUT 005 FLOW	OUT 005 LOAD	LOAD ADDED
15-May	1.200	226.464	58.300	0.160	35.306	261.771	0.860	49.860	162.299	-99.471
16-May	1.100	207.301	56.900	0.200	43.073	250.374	0.810	49.790	152.649	-97.725
21-May	0.930	175.228	73.300	0.220	61.037	236.265	1.160	49.780	218.564	-17.701
22-May	1.020	191.722	60.900	0.220	50.711	242.434	0.830	49.660	156.009	-86.424
28-May	0.770	145.198	55.200	0.180	37.608	182.806	0.710	49.820	133.884	-48.922
29-May	0.720	137.813	54.900	0.150	31.169	168.983	0.680	50.570	130.157	-38.826
4-June	0.790	154.860	0.480	0.270	0.491	155.350	0.570	51.790	111.734	-43.616
5-June	0.850	165.914	50.190	0.260	49.392	215.306	0.820	51.570	160.058	-55.248
11-June	0.960	188.947	52.480	0.250	49.659	238.606	0.850	52.000	167.297	-71.309
12-June	0.660	130.601	65.650	0.230	57.152	187.752	0.870	52.280	172.155	-15.597
18-June	0.610	122.669	30.900	0.260	30.409	153.078	0.470	53.130	94.516	-58.562
20-June	1.100	218.542	50.000	0.240	45.420	263.962	0.710	52.490	141.059	-122.903
25-June	0.360	72.109	37.400	0.310	43.883	115.992	0.530	52.920	106.160	-9.832
26-June	0.700	142.013	22.400	0.340	28.827	170.840	0.460	53.600	93.323	-77.517
2-July	0.410	83.024	22.300	0.330	27.854	110.878	0.670	53.500	135.673	24.796
3-July	0.460	93.671	24.300	0.340	31.272	124.943	0.340	53.800	69.235	-55.708
9-July	0.350	69.735	36.400	0.560	77.153	146.888	0.680	52.640	135.485	-11.403
10-July	0.200	39.515	33.300	0.480	60.499	100.015	0.700	52.200	138.304	38.289
16-July	0.430	86.211	34.800	0.420	55.322	141.533	0.530	52.970	106.260	-35.272
17-July	0.400	80.378	26.800	0.370	37.532	117.910	0.520	53.090	104.492	-13.419
23-July	0.810	162.429	20.950	0.630	49.956	212.385	0.630	52.980	126.333	-86.052
24-July	0.400	80.181	16.500	0.460	28.728	108.910	0.350	52.960	70.159	-38.751
30-July	0.260	51.232	35.000	0.410	54.315	105.547	0.530	52.060	104.435	-1.112
31-July	0.270	53.049	34.900	0.430	56.801	109.851	0.420	51.910	82.521	-27.330
02-Aug	0.280	54.908	22.700	0.300	25.776	80.684	0.390	51.810	76.479	-4.205
06-Aug	0.440	86.001	32.200	0.080	9.750	95.751	0.730	51.640	142.684	46.932
07-Aug	0.470	91.118	33.000	0.240	29.977	121.095	0.430	51.220	83.363	-37.732
13-Aug	0.800	155.397	41.300	0.420	65.655	221.052	1.010	51.320	196.189	-24.863

LTV Steel Blast Furnace Area

Ammonia Load Balance

DATE	807.000 CONC	807.000 LOAD	621.000 CONC	621 FLOW	621.000 LOAD	TOTAL LOAD	OUT 027 CONC	OUT 027 FLOW	OUT 027 LOAD	LOAD ADDED
15-May	0.630	39.202	34.500	0.061	7.966	47.168	1.100	16.440	68.448	21.280
21-May	0.490	31.937	28.100	0.067	7.126	39.063	0.900	17.220	58.660	19.597
29-May	0.410	26.211	19.500	0.119	8.783	34.994	0.950	16.890	60.732	25.738
5-June	0.500	31.624	9.650	0.110	4.018	35.641	0.430	16.710	27.196	-8.445
12-June	0.490	34.589	18.570	0.054	3.796	38.385	0.820	18.650	57.884	19.499
19-June	0.370	25.936	28.000	0.035	3.709	29.646	0.560	18.520	39.255	9.609
26-June	0.220	16.746	11.800	0.045	2.010	18.755	0.400	20.110	30.447	11.691
3-July	0.580	27.397	15.500	0.027	1.584	28.981	0.610	12.480	28.814	-0.167
10-July	0.350	16.321	28.200	0.020	2.135	18.456	0.520	12.320	24.248	5.793
17-July	0.340	15.803	19.500	0.053	3.912	19.715	0.400	12.280	18.592	-1.123
06-Aug	0.230	10.690	14.500	0.006	0.329	11.020	0.260	12.280	12.085	1.065
13-Aug	0.400	51.612	44.200	0.039	6.525	58.137	0.720	34.090	92.902	34.765