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G-000-104.24

**OHIO ENVIRONMENTAL PROTECTION AGENCY
MODIFICATION OF NATIONAL POLLUTANT
DISCHARGE ELIMINATION SYSTEM (NPDES)
PERMIT**

01/24/92

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ENCLOSURE

[REDACTED]

OHIO ENVIRONMENTAL PROTECTION
MODIFICATION OF NATIONAL POLLUTION DISCHARGE
ELIMINATION SYSTEM (NPDES) PERMIT

ISSUE DATE: January 24, 1992 EXISTING PERMIT NO: 1I000004*CD

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EFFECTIVE DATE: March 4, 1992 APPLICATION NO: OH0009580

ENTITY NAME: The Department of Energy, Feed Materials Production Center

FACILITY LOCATION: 7400 Willey Road, Fernald, Ohio, Hamilton County

In accordance with Rule 3745-33-06 of the Ohio Administrative Code (formerly Ohio EPA Regulation EP-31-06), the above referenced NPDES permit is hereby modified as follows:

Page Revision

M2, M3, Changed sample type for Hexavalent Chromium from Composite to Grab.
M6 and MM9

M13 Modify language of Part II, Item E.

Attached are the modified pages to the NPDES permit.

All terms and conditions of the existing permit not recommended for modification by this document will remain in effect. Any modified term or condition contained in this modification shall supersede, on the date this modification is effective, the existing respective term or condition of the permit.

When the modification is effective, the OEPA permit number will be changed to 1I000004*DD. The application number will remain OH0009580.

Donald R. Schlegardus

Donald R. Schlegardus
Director

6297P
Form EPA 4439

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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 the following outfall: 11000004001. SEE PART II, OTHER REQUIREMENTS, for location of effluent sampling.

<u>EFFLUENT CHARACTERISTIC</u>		<u>DISCHARGE LIMITATIONS</u>				<u>MONITORING REQUIREMENTS</u>	
REPORTING CODE/UNITS	PARAMETER	Concentration		Loading*		Measurement Frequency	Sample Type
		Other Units (Specify)	30 DAY	kg/day	30 DAY		
00300 MG/L	Dissolved Oxygen	-	(5.0 Min)	-	-	1/Week	Grab
00530 MG/L	Residue, Total Nonfilterable	30	45	99	149	1/Week	24 Hr. Comp.
00550 MG/L	Oil and Grease, Total	15	15	50	50	1/Week	Grab
00610 MG/L	Nitrogen, Ammonia (NH ₃)	-	-	-	-	1/Week	24 Hr. Comp.
00620 MG/L	Nitrate-N	-	-	-	-	1/Week	24 Hr. Comp.
00720 MG/L	Cyanide, Total	0.036	0.076	0.120	0.251	1/Week	Grab
00951 MG/L	Fluoride, Total (F)	-	-	-	-	1/Week	24 Hr. Comp.
01034 UG/L	Chromium, Total (Cr)	-	-	-	-	1/Week	24 Hr. Comp.
01042 UG/L	Copper, Total (Cu)	23	94	0.077	0.310	1/Week	24 Hr. Comp.
01051 UG/L	Lead, Total (Pb)	60	776	0.199	2.562	1/Week	24 Hr. Comp.
01067 UG/L	Nickel, Total (Ni)	-	-	-	-	1/Week	24 Hr. Comp.
01077 UG/L	Silver, Total (Ag)	12	26	0.040	0.086	1/Week	24 Hr. Comp.
01220 UG/L	Chromium, Dissolved Hexavalent	-	-	-	-	1/Week	Grab
50050 MGD	Flow Rate	-	-	-	-	Daily	24 Hr. Total
80082 MG/L	Biochemical Oxygen Demand, Carb.	20	30	66	99	1/Week	24 Hr. Comp.

* Loadings are based on 0.872 MGD

- The pH (Reporting Codes 00402 (minimum) and 00401 (maximum)) shall not be less than 6.5 S.U. nor greater than 9.0 S.U. and shall be monitored continuously.
- Samples taken in compliance with monitoring requirements specified above shall be taken at Sampling Stations described in Part II, OTHER REQUIREMENTS.

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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 the following outfall: 11000004002. SEE PART II, OTHER REQUIREMENTS, for location of effluent sampling.

<u>EFFLUENT CHARACTERISTIC</u>		<u>DISCHARGE LIMITATIONS</u>				<u>MONITORING REQUIREMENTS</u>	
REPORTING CODE/UNITS	PARAMETER	Concentration		Loading		Measurement Frequency*	Sample** Type
		30 DAY	DAILY	30 DAY	DAILY		
00530 MG/L	Residue, Total Nonfilterable	-	100	-	-	Daily	Composite
00550 MG/L	Oil and Grease, Total	-	15	-	-	Daily	Grab
00610 MG/L	Nitrogen, Ammonia (NH ₃)	-	-	-	-	Daily	Composite
00620 MG/L	Nitrogen, Nitrate (NO ₃)	-	-	-	-	Daily	Composite
00951 MG/L	Fluoride, Total (F)	-	-	-	-	Daily	Composite
01034 UG/L	Chromium, Total (Cr)	-	3986	-	-	Daily	Composite
01042 UG/L	Copper, Total (Cu)	-	45	-	-	Daily	Composite
01067 UG/L	Nickel, Total (Ni)	-	3137	-	-	Daily	Composite
01077 UG/L	Silver, Total (Ag)	-	11.6	-	-	Daily	Composite
01220 UG/L	Chromium, Hex. (Dissolved)	-	19	-	-	Daily	Grab
50050 MGD	Flow Rate	-	-	-	-	Daily	24 Hr. Total Estimate

* When discharging.

** Four grab samples shall be composited at varying times throughout the discharge event.

This discharge shall consist only of stormwater.

2. The pH (Reporting Code 00400) shall not be less than 6.5 S.U. nor greater than 9.0 S.U. and shall be monitored daily by grab sample.*
3. Samples taken in compliance with monitoring requirements specified above shall be taken at Sampling Stations described in Part II, OTHER REQUIREMENTS.

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 the following outfall: 11000004602. SEE PART II, OTHER REQUIREMENTS, for location of effluent sampling.

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<u>EFFLUENT CHARACTERISTIC</u>		<u>DISCHARGE LIMITATIONS</u>				<u>MONITORING REQUIREMENTS</u>	
REPORTING CODE/UNITS	PARAMETER	Concentration		Loading*		Measurement Frequency	Sample Type
		30 DAY	DAILY	30 DAY	DAILY		
01034 UG/L	Chromium, Total (Cr)	41	54	0.010	0.013	1/Week	24 Hr. Comp.
01042 UG/L	Copper, Total (Cu)	66	111	0.016	0.027	1/Week	24 Hr. Comp.
01067 UG/L	Nickel, Total (Ni)	91	165	0.022	0.040	1/Week	24 Hr. Comp.
01220 UG/L	Chromium, Dissolved Hexavalent	12	17	0.003	0.004	1/Week	Grab
50050 MGD	Flow Rate	-	-	-	-	Daily	24 Hr. Total

* Loadings are based on 0.064 MGD.

2. The pH (Reporting Code 00400) shall not be less than 6.5 S.U. nor greater than 9.0 S.U. and shall be monitored 1/week by grab sample.
3. Samples taken in compliance with monitoring requirements specified above shall be taken at Sampling Stations described in Part II, OTHER REQUIREMENTS.

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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 the following outfall: 11000004605. SEE PART II, OTHER REQUIREMENTS, for location of effluent sampling.

<u>EFFLUENT CHARACTERISTIC</u>		<u>DISCHARGE LIMITATIONS</u>				<u>MONITORING REQUIREMENTS</u>	
		Concentration		Loading*		Measurement Frequency	Sample Type
REPORTING CODE/UNITS	PARAMETER	Other Units (Specify)	30 DAY DAILY	30 DAY DAILY	30 DAY DAILY		
00310 MG/L	Biochemical Oxygen Demand, 5 Day		30	45	26	38	1/Week 24 Hr. Comp.
00530 MG/L	Residue, Total Nonfilterable		30	45	26	38	1/Week 24 Hr. Comp.
00610 MG/L	Nitrogen, Ammonia (NH ₃)		-	-	-	-	1/Week 24 Hr. Comp.
00620 MG/L	Nitrate-N		72.7	145	62	124	1/Week 24 Hr. Comp.
00951	DELETED						
01034 UG/L	Chromium, Total (Cr)		12	27	0.0101	0.0226	1/Week 24 Hr. Comp.
01042 UG/L	Copper, Total (Cu)		45	90	0.0387	0.0770	1/Week 24 Hr. Comp.
01067 UG/L	Nickel, Total (Ni)		29	42	0.0251	0.0361	1/Week 24 Hr. Comp.
01220 UG/L	Chromium, Dissolved Hexavalent		-	-	-	-	1/Week Grab
50050 MGD	Flow Rate		-	-	-	-	Daily 24 Hr. Total

* Loadings are based on 0.2252 MGD

2. The pH (Reporting Codes 00402 (minimum) and 00401 (maximum)) shall be monitored continuously.
3. Samples taken in compliance with monitoring requirements specified above shall be taken at Sampling Stations described in Part II, OTHER REQUIREMENTS.

PART II, OTHER REQUIREMENTS (Cont.)

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- E. At outfalls where pH is monitored continuously, the permittee shall maintain the pH of such wastewater within the range specified in this permit. The permittee shall report for each month when excursions from the range occur for each monitoring station where pH is monitored continuously the following:
- a) the number of excursions
 - b) the duration of each excursion
 - c) the date of each excursion
 - d) the total time of all excursions
 - e) the possible reason for each excursion, and
 - f) the action planned to correct the reason(s) for each excursion.
- F. There shall be no detectable amount of any priority pollutant attributable to cooling tower maintenance chemicals in the cooling tower blowdown wastewater.
- G. The permittee shall implement the Best Management Practices (BMP) Plan submitted March, 1988, as approved by Ohio EPA July 10, 1989.
- H. The permittee shall amend the BMP plan whenever there is a change in facility design, construction, operation or maintenance which materially affects the facility's potential for discharge of industrial wastes or other wastes into the waters of the State. Proposed changes shall be submitted to Ohio EPA, Southwest District Office for review and approval.