Henderson, Katie

From: Sent: To: Subject: Attachments: Torrence, Rufus Friday, May 11, 2012 3:08 PM Jones Chuck (Chuck.Jones@danfoss.com) AFIN 10-00102 ARP001040 Danfoss Site Visit for Compliance Assurance: Inspection SCT Insp 20120418.doc; SCT Lab Report 20120503.pdf



A R K A N S A S Department of Environmental Quality

May 11, 2012

Chuck Jones, EHS Manager Danfoss, LLC One Scroll Drive Arkadelphia, AR 71923

Re: April 18, 2012 Site Visit for Compliance Assurance: Inspection (Tracking No. ARP001040 AFIN 10-00102 AR0020605)

Dear Mr. Jones:

Part of ADEQ responsibility to EPA is to ensure that inspections of industries regulated by categorical pretreatment standards (40 CFR Part 405 – 471) are performed on a periodic basis. These industries are referred to as Categorical Industrial Users (CIUs) if they discharge the regulated wastewater into the local Publicly Owned Treatment Works (POTW). Scroll has processes (Coating-Phosphate/Zirconium &Passivation) in the Arkadelphia facility that are regulated by 40 CFR Part 433 and discharges to the City of Arkadelphia POTW. Therefore, Danfoss is a CIU. In accordance to 40 CFR 403.12(e), SCT must submit periodic reports to the Control Authority (ADEQ or Department) and in accordance with 40 CFR 403.8(f)(2)(v) be inspected by the Control Authority at least bi-annually. The Department appreciates Scroll taking the time on Wednesday (April 18, 2012) to show the ADEQ Engineer/Inspector (Rufus Torrence) the facility in Arkadelphia.

The inspection consisted of inspecting the shop operations (constructing scroll compressors), acid tanks and wastewater sampling. The inspector noticed that Danfoss uses steel coils (about 18" wide and 1/8" thick). The coils are on a spool that provides continuous feed to a metal cutter and cold-working former. During a previous site visit, the inspector considered placing Danfoss' metal working operation under 40CFR420. After the

inspector reviewed 40CFR420, the inspector determined that Danfoss Arkadelphia operations fall under 40CFR433 only. In accordance with 40CFR420.100(a) the "unheated steel is passed through rolls...to reduce its thickness, to produce a smooth surface, or to develop controlled mechanical properties in the steel." Based on the inspector's observation, Danfoss is only rolling the steel to produce a tube (no reduction in thickness, no change in surface or no new mechanical properties in the steel). Therefore, Danfoss rolling operation does not fall under 40CFR420. Nonetheless, during the recent April 2012 site visit, the inspector noticed that Danfoss has three possible 40CFR433 core operations. In addition Parco/Phosphate conversion coating operation, the recently modify seven stage washer (Zircobond/Zirconium Coating) and the rust removal (passivation) may also be core operations. Core operations are the key processes in determining the applicability of the 40CFR433 category.

Danfoss has no open floor drains in the plant which connect directly to the POTW. Wastewater enters open floor drains and all wastewater is pumped to the pretreatment system which consists of pH adjustment/floc. The treated wastewater is sampled at the end of the pretreatment system, metered and released to the POTW.

During the June 2005 exit interview, I pointed out that Danfoss limits have been adjusted to account for dilution from the stormwater which Danfoss pumps into the pretreatment system; therefore, Scroll limits are not shown in 40CFR433 as they have been reduced by using the Combined Wastestream Formula (CWF) shown in 40CFR403.6(e); for example, the zinc limits are 2.573 & 1.459 mg/l. During the pre-inspection meeting on May 20, 2009, the inspector illustrated the procedure for calculating these alternative limits using the CWF. If Danfoss has any questions about the procedure, let the Department know.

According to 40CFR433.12(a) Danfoss may submit a Toxic Organic Management Plan in lieu of sampling for TTOs; presently, Danfoss is required to sample for the 110 toxic organic, seven metals and total cyanide for each semi-annual report. Danfoss may review the EPA Guidance Manual for Implementing Total Toxic Organics Pretreatment Standards by accessing this web site:

http://www.epa.gov/npdes/pubs/owm0021.pdf

Danfoss can find an example of a Toxic Organic Management Plan in Appendix D of this manual.

During the inspection, the inspector took a sample of the regulated wastewater that will enter the local POTW. The ADEQ lab analysis is attached. <u>The wastewater complies with the limits in 40 CFR 433.</u>

Danfoss must continue sampling (at least semi-annually) all regulated wastewater for all 40 CFR 433 parameters before it enters the POTW.

The Department appreciates Danfoss' continued efforts in periodic reporting.

If you have any questions or concerns, please contact the Department at (501) 682-0626 or torrence@adeq.state.ar.us .

Sincerely,

The Jonence

Rufus Torrence, ADEQ Engineer/Inspector

Attachments: ADEQ Lab Analysis ADEQ Inspection Report dated April 18, 2012



5301 Northshore Drive North Little Rock, AR 72118 Telephone: 501-682-0744

Client Report For:Danfoss Scroll Tech 2012 1210Attention:Client Address:

,

Report Date: LAB ID: Comment: May 03, 2012 AR12APR19-02

Approved By:_____

Date:May 03, 2012

 Arkansas Department of Environmental Quality
 Laboratory Contact: Jeff Ruehr

 5301 Northshore Drive
 Ruehr@adeq.state.ar.us

 North Liitle Rock, AR 72118
 501-682-0955

 Client:
 Special Samples

 Lab ID:
 2012-1210

 Collection Date:
 4/18/2012 10:30:00 AM

Matrix: Water

<u>Analyses</u>

Metals by EPA 200.8	EPA 200.8	Batch: 120430	02 Run:	1	
	<u>Result</u>	Reporting	MDL	<u>Qual</u>	<u>Unit</u>
		<u>Limit</u>			
Aluminum	<200	200	20		ug/L
Antimony	<100	100	5		ug/L
Arsenic	<10	10	0.5		ug/L
Barium	<100	100	2.0		ug/L
Beryllium	<5	5	0.1		ug/L
Boron	3700	250	5.0		ug/L
Cadmium	<10	10	0.3		ug/L
Calcium	82.9	0.4	0.04		mg/L
Chromium	<10	10	0.3		ug/L
Cobalt	<10	10	0.5		ug/L
Copper	30.5	10	0.5		ug/L
Iron	2390	200	10.0		ug/L
Lead	14.9	10	0.1		ug/L
Magnesium	1.43	1	0.1		mg/L
Manganese	1670	10	0.2		ug/L
Nickel	120	25	0.5		ug/L
Potassium	57.1	10	0.05		mg/L
Selenium	<20	20	0.5		ug/L
Silver	<50	50	1.0		ug/L
Sodium	50.0	0.4	0.02		mg/L
Thallium	<25	25	0.05		ug/L
Vanadium	<25	25	1.0		ug/L
Zinc	104	30	2.0		ug/L
Dilution Factor	1				-
Analyzed By	Joe Semberski				
Analysis Date/Time	Apr 26 2012 2:38P	M			
Prep By	·				

Prep Date/Time

Batch: 12043002				ICP Metals	s - water (total)
SCT					LIMS ID: 2012-1210
ICP Metals - water (Total) DUP					Run: 1
Parameter	Result	DL	RL	Accuracy Control	Precision Control
Magnesium	1.61 mg/L	1	1		
Manganese	1900 ug/L	2	10		
Manganese (RPD)	12 %				0 - 20
Nickel (RPD)	11 %				0 - 20
Nickel	130 ug/L	5	25		
Potassium	64.3 mg/L	0.5	10		
Potassium (RPD)	11.8 %				0 - 20
Selenium (RPD)	11.8 %				0 - 20
Selenium	<20 ug/L	5	20		
Silver	<50 ug/L	10	50		
Silver (RPD)	22.2 %				0 - 20
Sodium	55.9 mg/L	0.2	0.4		
Sodium (RPD)	11.2 %				0 - 20
Thallium (RPD)	0 %				0 - 20
Thallium	<25 ug/L	0.5	25		
Vanadium (RPD)	12.8 %				0 - 20
Vanadium	<25 ug/L	10	25		
Zinc	118 ug/L	20	30		
Zinc (RPD)	12.8 %				0 - 20
Dilution Factor	1				
Analyzed By	Joe Semberski				
Analysis Date/Time	Apr 26 2012 2:43PM				
Aluminum	<200 ug/L	200	200		
Aluminum (RPD)	3.3 %				0 - 20
Antimony (RPD)	2.8 %				0 - 20
Antimony	<100 ug/L	50	100		
Arsenic	<10 ug/L	5	10		
Arsenic (RPD)	11.6 %				0 - 20
Barium (RPD)	13.9 %				0 - 20
Barium	<100 ug/L	20	100		
Beryllium	<5 ug/L	1	5		
Beryllium (RPD)	%				0 - 20
Boron (RPD)	12.2 %				0 - 20
Boron	4180 ug/L	50	250		
Cadmium	<10 ug/L	3	10		

Batch: 12043002				ICP Metals	s - water (total)
SCT		•			LIMS ID: 2012-1210
ICP Metals - water (Total) DUP					Run: 1
Parameter	Result	DL	RL	Accuracy Control	Precision Control
Cadmium (RPD)	0 %				0 - 20
Calcium (RPD)	13.8 %				0 - 20
Calcium	95.2 mg/L	0.4	0.4		
Chromium	<10 ug/L	3	10		
Chromium (RPD)	8.3 %				0 - 20
Cobalt (RPD)	12.7 %				0 - 20
Cobalt	<10 ug/L	5	10		
Copper	33.5 ug/L	5	10		
Copper (RPD)	9.3 %				0 - 20
Iron (RPD)	10.7 %				0 - 20
Iron	2660 ug/L	100	200		
Lead	17.4 ug/L	1	10		
Lead (RPD)	14.9 %				0 - 20
Magnesium (RPD)	12.2 %				0 - 20

SCT					LIMS ID: 2012-1210
ICP Metals - water (Total) MS					Run: 1
Parameter	Result	DL	RL	Accuracy Control	Precision Control
Aluminum (% Recovery)	98.8 %			70 - 130	
Antimony (% Recovery)	98.7 %			70 - 130	
Arsenic (% Recovery)	102 %			70 - 130	
Barium (% Recovery)	95.5 %			70 - 130	
Beryllium (% Recovery)	106 %			70 - 130	
Boron (% Recovery)	96.4 %			70 - 130	
Cadmium (% Recovery)	104 %			70 - 130	
Calcium (% Recovery)	94.5 %			70 - 130	
Chromium (% Recovery)	98.5 %			70 - 130	
Cobalt (% Recovery)	96.0 %			70 - 130	
Copper (% Recovery)	97.9 %			70 - 130	
Iron (% Recovery)	93.8 %			70 - 130	
Lead (% Recovery)	95.9 %			70 - 130	
Magnesium (% Recovery)	99.7 %			70 - 130	
Manganese (% Recovery)	65 %			70 - 130	
Nickel (% Recovery)	97 %			70 - 130	
Potassium (% Recovery)	95.9 %			70 - 130	
Selenium (% Recovery)	112 %			70 - 130	
Silver (% Recovery)	90.3 %			70 - 130	

Batch: 12043002				ICP Metals	s - water (total)
SCT		•			LIMS ID: 2012-1210
ICP Metals - water (Total) MS					Run: 1
Parameter	Result	DL	RL	Accuracy Control	Precision Control
Sodium (% Recovery)	106 %			70 - 130	
Thallium (% Recovery)	95.4 %			70 - 130	
Vanadium (% Recovery)	96.9 %			70 - 130	
Zinc (% Recovery)	107 %			70 - 130	
Dilution Factor	1				
Analyzed By	Joe Semberski				
Analysis Date/Time	Apr 27 2012 7:50AM				
SCT					LIMS ID: 2012-1210
ICP Metals - water (Total) MSD					Run: 1
Parameter	Result	DL	RL	Accuracy Control	Precision Control
Aluminum (% Recovery)	98.9 %			70 - 130	
Aluminum (RPD)	0.1 %				0 - 20
Antimony (% Recovery)	98.5 %			70 - 130	
Antimony (RPD)	0.3 %				0 - 20
Arsenic (% Recovery)	103 %			70 - 130	
Arsenic (RPD)	0.8 %				0 - 20
Barium (% Recovery)	96.0 %			70 - 130	
Barium (RPD)	0.5 %				0 - 20
Beryllium (% Recovery)	106 %			70 - 130	
Beryllium (RPD)	0.7 %				0 - 20
Boron (% Recovery)	98.2 %			70 - 130	
Boron (RPD)	0.6 %				0 - 20
Cadmium (% Recovery)	102 %			70 - 130	
Cadmium (RPD)	1.0 %				0 - 20
Calcium (% Recovery)	95.9 %			70 - 130	
Calcium (RPD)	0.8 %				0 - 20
Chromium (% Recovery)	97.6 %			70 - 130	
Chromium (RPD)	0.8 %				0 - 20
Cobalt (% Recovery)	95.7 %			70 - 130	
Cobalt (RPD)	0.3 %				0 - 20
Copper (% Recovery)	97.9 %			70 - 130	
Copper (RPD)	0 %				0 - 20
Iron (% Recovery)	94.0 %			70 - 130	
Iron (RPD)	0.1 %				0 - 20
Lead (% Recovery)	96.9 %			70 - 130	
Lead (RPD)	0.9 %				0 - 20

Batch: 12043002				ICP Metals	s - water (total)
SCT					LIMS ID: 2012-1210
ICP Metals - water (Total) MSD					Run: 1
Parameter	Result	DL	RL	Accuracy Control	Precision Control
Magnesium (% Recovery)	99.8 %			70 - 130	
Magnesium (RPD)	0.1 %				0 - 20
Manganese (% Recovery)	68 %			70 - 130	
Manganese (RPD)	0.4 %				0 - 20
Nickel (% Recovery)	97 %			70 - 130	
Nickel (RPD)	0.6 %				0 - 20
Potassium (% Recovery)	96.3 %			70 - 130	
Potassium (RPD)	0.3 %				0 - 20
Selenium (% Recovery)	114 %			70 - 130	
Selenium (RPD)	1.8 %				0 - 20
Silver (% Recovery)	91.0 %			70 - 130	
Silver (RPD)	0.8 %				0 - 20
Sodium (% Recovery)	107 %			70 - 130	
Sodium (RPD)	0.4 %				0 - 20
Thallium (% Recovery)	96.3 %			70 - 130	
Thallium (RPD)	1.0 %				0 - 20
Vanadium (% Recovery)	96.6 %			70 - 130	
Vanadium (RPD)	0.3 %				0 - 20
Zinc (% Recovery)	108 %			70 - 130	
Zinc (RPD)	0.2 %				0 - 20
Dilution Factor	1				
Analysis Date/Time	Apr 27 2012 7:55AM				
Analyzed By	Joe Semberski				

Pretreatment Industrial Inspection			
Facility I	nformation		
Facility Name: Danfoss, LLC	Site Address: One Scroll Drive		
	Arkadelphia, AR 71923		
Signatory Authority (Name & Title): T. Paul Dean, Gen	neral Manager		
Phone: 870-246-0700	Mailing Address (if different):		
Fax:	Same		
Address: Same	Corporate Owner Name and address (if applicable):		
Address. Switte	Member of the Danfoss Group		
Phone:	Nordborgvej 81 6430 Nordborg Denmark		
Fax:	Phone: +45 7488 2222		
Contact Person (Name & Title):	Fax: +45 7449 0949		
Chuck Jones, Env Health and Safety Mgr.	Corporate CEO: Neils B. Chriestiansen		
	*		
e-mail: <u>chuck.jones@danfoss.com</u>	e-mail:		
Facility Permit # ARP001040 AFIN 10-00102	Last Inspection Date: <i>May11, 2011</i>		
POTW (City) IU discharges to: Arkadelphia Water Dept	· · · · ·		
Industrial Classification: 🛛 Categorical	Significant Significant		
If Categorical, list which CFR #(s) the facility is subject to: 40 CFR 433			
	f Contents		
I. Summary of Inspection	Page of		
A. Inspection Objectives B. Inspection Analysis			
D. Inspection 7 marysis			
II. Pre-Inspection Meeting	Page of		
A. General Information			
B. Facility Permits			
C. Additional Comments			
	ility and attachments will be included		
"No" indicates item does not exist at	t the facility and attachments aren't necessary		
A. Industrial Processes	yes 🛛 no 🗌 Page of		
B. Pollution Prevention Activities	yes 🛛 no 🗌 Page of		
C. Pretreatment System	yes 🛛 no 🗌 Page of		
D. Chemical Storage	yes 🛛 no 🗌 Page of		
E. Spill/Slug Control Plan	yes 🛛 no 🗌 Page 🛛 of		
F. Self-Monitoring/TOMP	yes 🛛 no 🗌 Page 🛛 of		
Comments : This facility has three possible core process	es: Parco (Phosphatizing-Coating),		
Zircobond (Zirconium Coating) and Rust Removal (Coa	ting).		
Inspector's Name (Print): Rufus Torrence	Signature:		
inspector's Name (Finit). Rujus Torrence			
	Kusha Ovence		
IU Rep's Name (Print)	Signature:		
Chuck Jones	Not Applicable		
Date and Time Inspection Ended: April 18, 2012 @	e 11:50 pm		

I. Summary of Inspection					
A. Inspection and Objective (Complete Before Inspection)					
Permit Renewal Annual	Spil			Unscheduled	
New Construction Noncomplian	nce 🗌 Foll	low	/-up	Complaint	
Inspection Objective(s): Compliance Assurance					
Checklist of items to be reviewed and/or visually in	spected:				
Pre-inspection Meeting Permit Con	ditions [Safety Concerns		
Process Inspection Pretreatmen			TOMP*		
Chemical Storage Discharge			Spills/Slug Control 1		
Records Review			Process/Flow/Pretre		
IU sampling procedures Flow/pH M MSDS Inventory List New MSDS			Calibration Records		
Comments: *Danfoss Scroll has elected to sample		of	submitting a TOMP		
· · · · · · · · · · · · · · · · · · ·		01	sublitting a TOMP	IO ADLQ.	
**A Spills/Slug Control Plan appears unnecessary	at this time.				
B. In	spection Analy	ysi			
Were there any deficiencies/violations identified an	d noted during the	he	inspection? 🛛 🛛 Ye	es 🗌 No	
Provide a brief narrative of deficiencies/violations	or other concerns	s in	the following areas:	:	
Records Review					
Process Area(s): In addition to the Parco and Phe	sphate Washer.	D	anfoss is emploving	a "Derust" operation	
which uses Citric Acid. The Parco and Phosphati					
which uses curte Actu. The Furce und Phosphan	ng are core proc	.000	ses, the Derust may	uiso be a core process.	
Durature at the state of the st					
Pretreatment System					
Self Monitoring Procedures					
Diversion/Sewer Meters					
Spill/Slug Control Plan					
Sampling Point					
Chemical Storage					
	· · · · ·				

II. Pre-Inspection Meeting				
A. General Information				
Date and Time Inspection Started: April 18, 2012 @ 9:	45 am SIC code(s): 3585			
IU Reps/Titles	Control Authority Reps/Titles			
Chuck Jones, Env Health and Safety Mgr.	Rufus Torrence, Engineer			
Gregg Newton, WW Operator				
Hoyle Guber, Maintenance Supv				
End product(s): Scroll A/C compressors	Approx. # of units produced: 1900/day			
Days of Operation: 7 days/week	Days of Production (if different): same			
Hours of Operation: 24 hours/day	Hours of Production (if different): same			
Shift 1, hrs.: 8:00 am to 5:00 pm Shift 2, hrs.: N/A	Shift 3, hrs.: <i>N/A</i>			
# of Employees: 237 (as of April 2012) Peak Mo	os.: "Off" Mos.:			
Are there any scheduled plant shutdowns? Yes 🛛 No 🗌	N/A I If yes, when? <i>July & December</i>			
Are there designated plant clean-up days? Yes 🗌 No 🔀	N/A If yes, when?			
Is the facility currently in compliance with all pretreatmer	it reporting requirements and limits? Yes 🛛 No 🗌			
If No, explain:				
Are there any Special Entry Procedures for the Discharge,	/Sample point locations? Yes 🗌 No 🔀			
If Yes, explain:				
Are there any Safety Concerns or Identified Hazards that	the inspector should be aware of: 🗌 Yes. 🔀 No			
If Yes, explain:				
Has there been any changes since the last inspection regar	ding the following items:			
Plant/flow/process layout? Yes No X If yes, ob	tain copy of updated schematic for facility file.			
Processes? Yes 🗌 No 🛛 If yes, explain:				
Production Levels? Yes \Box No \boxtimes If yes, explain:				
Raw materials? Yes No X If yes, explain:				
Flow rates? Yes 🗌 No 🛛 If yes, explain:				
Are regulated and non-regulated wastestreams combined?	Yes 🛛 no 🗌			
Prior to Pretreatment System?	Yes 🖾 no 🗌 N/A 🗌			
If Yes, was the CWF used to calculate limits?	Yes 🛛 no 🗌			
Prior to connection to the POTW sanitary sewer?	yes no N/A			
At connection to sanitary sewer?	yes no N/A			
Production and flows verified for Production-Based Stand				
What is the current avg. production rate and process flow	? Not Applicable			
Is the prod. rate or flow substantially different (+/- 20%) from those used in calculating limits? yes \square no \square N/A \square				
Not Applicable				

B. Facility Permits			
Permit Type Permit No. Expiration Date			
Air	1223-A	Voided	
RCRA	Not Applicable	N/A	
NPDESARR00B641Active		Active	
Other ARR00A240 Voided			
C. Additional Comments			

(Note which section or attachment comments are regarding)

1. Danfoss has both ISO 9001 and ISO 14001 Certification

2. The Parco process is actually a phosphate conversion coating process that uses phosphoric acid,

nitric acid and nickel nitrate. This coating provides lubricity to the moving parts during start-up.

3. The seven stage phosphate washer recently was modified to produce a "Zircobond" coating. The process produces a zirconium coating.

4. Danfoss also receives cast steel parts which are machined on site to create parts for the compressors. Danfoss receives round steel stock in eight-foot lengths which are cut to length and machined to form "eccentric" shafts for the compressors. Danfoss purchases the stator and rotor from outside vendors. Danfoss has automated assembly lines which piece together the parts for the compressors. The stationery scroll and orbiting scroll are washed in alkaline and phosphoric baths. Furthermore, the steel tube housing is also washed in an alkaline bath prior to painting. Danfoss ships the finish product to the two owners (Carlyle/Carrier and Bristol/York...sold to Danfoss Group).

5. Copeland is Scroll Tech main competitor; the compressors are sold to York (about 60%), to Carrier (about 20%) and 20% to others.

		Attachment A: I	ndustrial Process(es)	
List process(es) generat	ing wastewate	er. Note if it's cate	gorical (federally regulated	w/pretreatment limits) or not
1. Ransohoff (Soap) W	ash	Yes 🛛 No 🗌	4. Derust (Citric Acid)	Yes 🛛 No 🗌
2. Parco Coating (Core	Process)	Yes 🛛 No 🗌	5.	Yes 🗌 No 🗌
3. Zircobond Coating (Core)	Yes 🛛 No 🗌	6.	Yes 🗌 No 🗌
Were processes visually	inspected?	Yes 🛛 No 🗌	N/A	
Brief description of pro-	cess(es):			
Ransohoff is a hydroxi "ancillary" operation.	de soapy was	h to remove oil, gro	ease and other contaminant	ts and is a 40 CFR 433
Parco is a phosphate co	onversion pro	cess that falls und	er 40 CFR 433 as a "core"	operation.
Zirbond Coating is perj	formed in the	old "phosphate"s	even-stage washer and also	is a 40 CFR 433 core
operation.				
General observations of	facility's ind	oor housekeeping:	Excellent	
General observations of	area outside	facility's building:	Excellent	
		· · ·		
Check all sources of wa	stewater bein	g discharged into th	ne City's collection system.	Indicate avg. gal/day, measured
(M) or estimated (E). If	f batch (B) dis	scharged, list freque	ency and volume (1000 gal/1	month, e.g.).
Process Rinse	Equip. 0	Cleanup	Floor Cleanup	Spent Bath Solutions
Overflows				
Product Cleaning	Forklift	s Maint./Wash	Tank Dragout	Air Pollution Devices
Boiler Blowdown	Spent R	inse Tanks	Equipment Coolants	Non-Contact Cooling
				Water
Stormwater				
List Major Raw Materia	ls and Chemi	cals used:		
·			ing parts. Steel rods are ir	nported from China.
Acids (phosphoric, nit				•
Lubricating oils for m			0	
0		•		
Check Waste Stream Po	ollutants of Co	oncern from Proces	s(es)	
1 1	Metals (Li		Solvents (List)	
DOD				
\Box TSS \Box Cl ₂		/ 0		
0&G				
pH				
Are there floor drains in	the Process a	area? 🗌 Yes 🛛 🛛	No If yes list number and	the location of all floor drains:

Attachment B: Pollution Prevention (P2) / Recycling Activities				
Does the facility have a written P2 Plan?	Yes	No But documentation is pending		
Does this facility practice P2?	Yes 🖂	No 🗌 In practice, but system still under development		
Environmental Management System in pl	ace? Yes 🗌	No 🔀 EMS is being developed for ISO Certification		
ISO Certified?	Yes 🖂	No 🗌 ISO 9001 & ISO 14001		
Written Standard Operating Procedures?	Yes 🖂	No 🗌		
Explain:				
Preventative Maintenance Program	Yes 🖂	No (hydraulic systems, valves, pumps, etc)		
Explain:				
Water Reuse:	Yes	No 🔀		
Explain:				
Cost Accounting to Track Savings:	Yes 🖂	No 🗌		
Explain:				
Inventory Control / "Green Purchasing":	Yes 🖂	No [] (lean manufacturing/"env. friendly purchasing", etc)		
Explain:				
		57		
Employee Training:	Yes	No 🖂		
Explain:				
	V. V	N 🗌		
Spent Solvent Reclamation?	Yes 🖂	No		
Explain:				
Recycle Paper, Aluminum, Boxes, and Pa	llots? Vos 🕅	No		
Explain:				
Recycle Waste Oil, Solvents, and Lubrica	ints? Yes 🖂	No		
Explain:				
Other Activities				
P2 Equipment/Practices in use:				
Overflow Alarms		Aqueous Cleaning Solutions		
☐ Fog Spray Rinsing		Countercurrent Rinsing		
Dragout Collection Trays		Seal-Less Pumps		
Air Jets to Blow Parts Dry		Secondary Containment of Process Solutions		
Aqueous Paint Stripping Solutions		Bead Blasting to Remove Paint		
Water Soluble Cutting Fluids		Recycle Overspray		
In-Process Recycle (Ion Exchange, Re	everse Osmosis)			
Dead Rinse Tanks	,	Bath / Rinse Filtration		

Attachment C: Pretreatment System							
Are wastestreams segregated before pretreatment?				Yes	🛛 No		J/A
Are they pretreated prior to discharge to the sanitary sewer?			\geq	Yes	🗌 No		J/A
Was the pretreatment system visually inspected during this visit? Xes No N/A							
Check which of the foll	lowing are utilized f	for pretreatment pri	or to disch	arge to sani	tary sewer:		
Dissolved air floatation Membrane Tech.			. [Ion Exchange		Γ	Biological Treatment
Centrifugation	ntrifugation Flow Equalization Ozonation Chlorinatin				Chlorinating		
Chemical Precipitat	Chemical Precipitation			Γ	Grit Removal		
Sludge Filter Press		Grease Trap Screen			Solvent Separation		
🛛 pH Adjustment	pH Adjustment Sand Trap			Sedimentation		[Silver Recovery
Belt/Disk Oil Skim	mer						
Provide Brief Descripti	on of Pretreatment	System (leaks, clea	nliness, eq	uipment not	t in working	order)):
System appears to well	operated and main	ntained.					
Does the description ma	atch the schematic o	currently on file?		\boxtimes	Yes N	lo	N/A
System Operator(s) Name: Joe May, Melissa Franklin, James Diemer have Industrial Operator license.							
Greg Newton, Mike Bell, Kenneth Langley, and Greg Conant have Advance Industrial Operator license.							
Does discharge permit require licensed operator?							
Is the System Operator(s) licensed by the State of Arkansas (per Reg. # 3?) Yes No N/A							
List Name(s) and License classification: (<i>Listed above</i>)							
Is training provided to the Pretreatment System Operator(s)? Xes No N/A							
If Yes, list type and frequency:							
Is the discharge from the Pretreatment System? Batch Continuous Combination							
If any discharges are batch type or combination, describe the following:							
Volume of each batch: gallons per							
Describe process from which batch originated (spent bath, e.g.):							
Approximate duration of batch discharge:							
Meter Type Calibration Procedure and Frequency Comments (Totalizer Reading)							
			1				

Attachment D: Chemical Storage Area(s)							
Does the facility have a designated chemical storage	ge area(s)? Yes	No (Decentralized; see comment below)					
Was this area(s) visually inspected?	Yes	No N/A					
Describe Chemical Storage Area(s)	Are there floor drains in this area?	If yes, where does this drain lead to?					
1.	Yes No	Pretreatment Sanitary Sewer Storm Sewer					
2.	Yes No	Pretreatment Sanitary Sewer Storm Sewer					
3.	Yes No	Pretreatment Sanitary Sewer Storm Sewer					
4.	Yes No	Pretreatment Sanitary Sewer Storm Sewer					
Does the Chemical Storage Area(s) contain any of	the following?						
Dikes, Berms for Containment	Plugs for Floor	Drains					
Secondary Tanks for Holding	Premix (low) C	oncentrations					
Alarms		restraints, limited access					
Spills Control Kits for Cleanup	Notification Pro	·					
Chemical desegregation within Storage Area	Other						
Chemical Inventory List (MSDS) on file?	Yes						
Were any new MSDS reviewed during the Inspecti	ion? Yes	\square No \square N/A					
If yes, list below:							
Chemical storage comments:							
Danfoss was leasing a nearby warehouse. The	lease expired and was	s not renewed. Danfoss elected to use the					
chemical storage area as warehouse space. All	the chemicals were re	elocated to new locations throughout the plant					
and close to the process which uses them. Presently, Danfoss has "decentralized chemical storage". The decentralized							
location are equipped with berms for spill control.							
Chemical handling procedures (totes, dolly, buckets, hardline, etc):							
Totes, Forklifts,							

Attachment E: Spill/Slug Control Plan				
Does the facility have a Spill/Slug control plan?	\Box yes \boxtimes no ¹			
If yes are the following: 403.8(f)(2)(v)(A-D) requirements in place?				
Is the spill/slug control plan <2 years old?	yes no 🛛 N/A			
(A) Describes discharge practices including non routine batch (slug) discharges	yes no 🛛 N/A			
(B) Describes storage and handling of chemicals	yes no 🛛 N/A			
(C) Procedures for immediate notification to POTW of slug discharges	yes no 🛛 N/A			
(D) 1. Describes measures for controlling toxic/hazardous pollutants	yes no N/A			
2. Describes procedures and equipment for emergency response	yes no 🛛 N/A			
3. Describes follow-up to limit damage suffered by POTW or environment	yes no 🛛 N/A			
4. Does the facility have Spill/Slug Notification Procedures posted?	yes no N/A			
5. Are worker personnel provided training in the event of a spill or slug discharge?	yes no 🛛 N/A			
If no:				
Does the facility have Spill/Slug Notification Procedures posted?	yes no			
Is it posted in areas where chemicals are used and stored?	yes no			
If Yes how many?				
Are appropriate personnel provided training in the event of a spill or slug discharge?	yes no			
Have there been any non-routine, episodic discharges or chemical spills in the past year?	yes no			
(Briefly Describe, Include Dates)				
Not Applicable				
Was the City notified of these occurrences? yes no N/A				
Visual Inspection of Discharge Lines/Points				
Provide description of manhole condition and flow channel of the following where applicable:				
Sampling / Monitoring Point Effluent tank with top spill to POTW.				
Total Flow Monitoring Point Inline flow totalizer on effluent pipe to POTW.				
Upstream Manhole				
Point of Connection:				

¹Facility has no open floor drains to the POTW so a SPCC for the POTW protection appears unnecessary.

Attachment F: Self-Monitoring & if CFR 433, TTO/TOMP Requirements							
Have Operator (or person collecting the sample) to describe how composite and grab samples are collected and preserved. Record descriptions. Include name of individual and title.							
Sorrells Lab Technician takes 24-hour composite sample from tank/vat at the end of the pretreatment system.							
Where is the sample point lo	ocated? Effluent tan	k with top spill to POTV	<i>V</i> .				
End of Process	Pretrea	Pretreatment Effluent					
Combined Flow	Metere	Metered Flow Flow Actuator					
Private Manhole	🗌 Utility	Utility Manhole Advance Notice Required					
Safety Hazards Identified	Safety Hazards Identified						
Is the Sample Collection Site	Is the Sample Collection Site Adequate? Yes No N/A						
Does the facility rep. reques	t a split sample on th	nis sampling/inspection?		Yes N	lo		
Does the facility perform sel	lf-monitoring tests in	1-house?		Yes N	Io 🗌 N/A		
If no, record the name	and address of Cont	ract Lab: Sorrells lab in	n Little Roc	k			
Automatic Sampler	or Manual						
			i				
IU Self-Monitoring Results	reviewed:			Yes [No N/A		
Is the Contract Lab cer	tified by ADEQ for	test parameters?		Yes [No N/A		
Dates and Times of Sar	mple Analysis Reco	rded?		Yes [No N/A		
Correct Methods Used	for Test Analysis (F	Refer To 40CFR Part 13	5)	Yes [No N/A		
EPA recommended hol	lding times being me	et (Refer to 40CFR Part	136)	Yes [No N/A		
Chain of Custody Reco	ords for Self-Monito	ring Samples Reviewed		Yes [No N/A		
Were correct Sample T	ypes Collected			Yes [No N/A		
Dates and times of San	nple Collection Reco	orded?		Yes [No N/A		
Were Samples preserve	ed correctly (refer to		Yes [No N/A			
Were Self Monitoring records on file for past 3 years? Yes No N/A							
List the parameters the facility monitors and the frequency:							
\Box Cd(t) 2/yr	Cu(t) 2/yr	\Box Cr(t) 2/yr	\bigvee Ni(t) 2	/yr	\bigcirc Pb(t) 2/yr		
Ag(t) 2/yr	Zn(t) 2/yr	□рН	\bigcirc CN ⁻ (t)	2/yr	\Box CN ⁻ (a-c)		
TTO-Vol 2/yr	TTO-B/N 2/yr	TTO-A.E.	🛛 ТТО-Ре	est 2/yr	Cr(hex)		
Toxic Organic Management Plan (TOMP) for Metal Finishers under CFR 433							
How does the IU report TTO?							
Does the facility have a Toxic Organic Management Plan? Yes No N/A							
If yes, Does the plan show how toxic organics are used, stored, and disposed? See No N/A							
List the date of the last revision to the TOMP:							
Is the TOMP being followed as written? Yes No N/A (If no, provide explanation in comments.)							
If no, is there evidence that a TOMP is needed? Yes No N/A (If yes, provide description of evidence in comments.)							
Comments:							