

**SEMI-ANNUAL REPORT FOR USERS REGULATED BY THE Al & Cu FORMING CATEGORIES**

ATTN: Water Div/NPDES Pretreatment

<b>(1) IDENTIFYING INFORMATION</b>																			
<p>A. LEGAL NAME &amp; MAILING ADDRESS</p> <p align="center">Rea Magnet Wire, Algonquin Industries, Osceola Plant 1800 Highway 61 South Osceola, AR 72370</p>	<p>B. FACILITY &amp; LOCATION ADDRESS</p> <p align="center">Rea Magnet Wire, Algonquin Industries, Osceola Plant 1800 Highway 61 South Osceola, AR 72370</p>																		
<p>C. FACILITY CONTACT: Milton A. Lamb Jr.      TELEPHONE NUMBER: 870-622-4418      mlamb@reawire.com</p>																			
<p><b>(2) REPORTING PERIOD--FISCAL YEAR</b></p> <p align="center">2012 (Both Semi-Annual Reports to Cover Fiscal Year)</p>																			
<p>A. MONTHS WHICH REPORTS ARE DUE</p> <p align="center">September &amp; March</p>	<p>B. PERIOD COVERED BY THIS REPORT</p> <p align="center">FROM: March 31, 2012 - September 30, 2012</p>																		
<b>(3) DESCRIPTION OF OPERATION</b>																			
<p>A. Regulated Processes per 40 CFR Part 467 (Aluminum) Subpart A &amp; C and 40 CFR Part 468 (Copper) Subpart A</p> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="text-align: left; padding: 5px;">PROCESS</th> <th style="text-align: center; padding: 5px;">PRODUCTION-OFF/LB</th> <th style="text-align: center; padding: 5px;">PRODUCTION DAYS<sup>1</sup></th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">Rolled Aluminum (§467.15 Solution Heat Treatment)</td> <td style="text-align: center; padding: 5px;">Pond ( 245,076 )</td> <td style="text-align: center; padding: 5px;">7/1/2011 - 9/25/2012 452 days #1</td> </tr> <tr> <td style="padding: 5px;">Extruded Aluminum (§467.35 Core Die Cleaning)</td> <td style="text-align: center; padding: 5px;">1,757,849</td> <td style="text-align: center; padding: 5px;">4/1/2012 - 9/25/2012 178 continuous #2</td> </tr> <tr> <td style="padding: 5px;">Extruded Aluminum (§467.35 Press Heat Treatment) C300 (§467.35 Press Heat Treatment) C350</td> <td style="text-align: center; padding: 5px;">4,145,355 ( 2,911,663 ) 1,233,692</td> <td style="text-align: center; padding: 5px;">10/23/2009 - 9/25/2012 1050 days #3 5/31/2011 - 9/25/2012 483 days #4</td> </tr> <tr> <td style="padding: 5px;">C/E BATH &amp; Rinse Rolled Copper (§468.14(d) Solution Heat Treatment)</td> <td style="text-align: center; padding: 5px;">Pond ( 4,626,755 )</td> <td style="text-align: center; padding: 5px;">7/1/2011 - 9/25/2012 452 days #5</td> </tr> <tr> <td style="padding: 5px;">Extruded Copper (§468.14(k) Pickling Rinse) C285 (§468.14(m) Pickling Bath) C285 (§468.14(e) Extrusion Heat Treatment) C285</td> <td style="text-align: center; padding: 5px;">31,238,769 ( 10,412,923 ) 10,412,923 10,412,923</td> <td style="text-align: center; padding: 5px;">9/1/2010 - 9/25/2012 755 days #6 9/1/2010 - 9/25/2012 755 days 9/1/2010 - 9/25/2012 755 days</td> </tr> </tbody> </table>	PROCESS	PRODUCTION-OFF/LB	PRODUCTION DAYS <sup>1</sup>	Rolled Aluminum (§467.15 Solution Heat Treatment)	Pond ( 245,076 )	7/1/2011 - 9/25/2012 452 days #1	Extruded Aluminum (§467.35 Core Die Cleaning)	1,757,849	4/1/2012 - 9/25/2012 178 continuous #2	Extruded Aluminum (§467.35 Press Heat Treatment) C300 (§467.35 Press Heat Treatment) C350	4,145,355 ( 2,911,663 ) 1,233,692	10/23/2009 - 9/25/2012 1050 days #3 5/31/2011 - 9/25/2012 483 days #4	C/E BATH & Rinse Rolled Copper (§468.14(d) Solution Heat Treatment)	Pond ( 4,626,755 )	7/1/2011 - 9/25/2012 452 days #5	Extruded Copper (§468.14(k) Pickling Rinse) C285 (§468.14(m) Pickling Bath) C285 (§468.14(e) Extrusion Heat Treatment) C285	31,238,769 ( 10,412,923 ) 10,412,923 10,412,923	9/1/2010 - 9/25/2012 755 days #6 9/1/2010 - 9/25/2012 755 days 9/1/2010 - 9/25/2012 755 days	<p>B. CHANGES: SUMMARIZE ANY CHANGES IN THE REGULATED PROCESSES SINCE THE LAST REPORT. ATTACH AN ADDITIONAL SHEET IF THE SPACE BELOW IS INADEQUATE. PROVIDE A NEW SCHEMATIC IF APPROPRIATE.</p> <p align="center" style="font-size: 1.2em; margin-top: 20px;">Report Rec'd by email on 9-28-2012 @ 2:42pm</p> <p align="center" style="font-size: 1.5em; margin-top: 20px;">Sep 2012 SAR</p> <p align="center" style="font-size: 1.5em; margin-top: 20px;">Filed date 2012 10/01</p> <p align="center" style="font-size: 1.5em; margin-top: 20px;">AFIN 47-00209 ARP 000020 AR 00 21580</p>
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<p>C. Number of Regular Employees at this Facility: <u>42</u></p>	<p>D. [Reserved]</p>																		

<sup>1</sup>The entry for "Production Days" for solution, press heat treatment, and pickling and rinse operations are dates of the batch discharges or initial startup and the dates of the sampling. Only the Core Die Cleaning operation has a continuous discharge

Algonquin Industries Division  
1800 Highway 61 South  
Osceola, AR 72370

Tel (870) 563-5207  
Fax (870) 563-1207



**Algonquin Industries Division**  
**Osceola Plant**

September 28, 2012

Arkansas Department of Environmental Quality  
Mr. Rufus Torrence  
5301 Northshore Drive  
North Little Rock, AR 72118-5328  
501-682-0626

Re: Submittal of Semi-Annual Report, Osceola Plant

Dear Mr. Torrence:

Please find enclosed the above referenced document and copies of the analytical results of the sampling used to determine compliance.

Please note the following:

1. A revised version of ADEQ's semi-annual report form was used. The form was revised to clarify information for both ADEQ and Algonquin. The form meets all of the informational requirements of 40 CFR 403.12(e).
2. Limitations for batch discharges were calculated using the production data from a specific time period beginning with the date of the most recent batch discharge and ending with the date the samples (reported herein) were collected. Production data for partial (split) months were prorated.

If you need additional information, please contact me at (870) 622-4418.

Sincerely,

A handwritten signature in black ink, appearing to read "Milton A. Lamb Jr.", written over a large, stylized flourish.

Milton A. Lamb Jr  
Plant Engineer, Osceola Plant  
Rea Magnet Wire Company, Inc.  
Algonquin Industries Division

Enclosures

cc: James Carlock, Superintendent  
Osceola Water Dept  
PO Box 443  
Osceola, AR 72370

SEMI-ANNUAL REPORT

FACILITY NAME: Algonquin Industries

C. THE INDUSTRIAL USER MUST PERFORM SAMPLING AND ANALYSIS ON THE EFFLUENT FROM ALL REGULATED PROCESSES-CORE & ANCILLARY-AFTER TREATMENT, IF APPLICABLE. ATTACH THE LAB ANALYSIS, WHICH SHOWS A MAXIMUM TABULATE ALL THE ANALYTICAL DATA COLLECTED DURING THE REPORT PERIOD IN THE SPACE PROVIDED BELOW. ZERO CONCENTRATIONS ARE NOT ACCEPTABLE; LIST THE DETECTION LIMIT IF CONCENTRATION VALUES BELOW DETECTION LIMIT.

Concentrations (mg/l)	Cr	Cu	Pb	Ni	Zn	TTO	O&G	CN
C-500 Cooling Water Tank (Aluminum Extrusion) Allowable Concentrations	NA	NA	NA	NA	NA	NA	NA	NA
C-500 Cooling Water Tank Measured Concentrations	NA	NA	NA	NA	NA	NA	NA	NA
C-300 Cooling Water Tank (Aluminum Extrusion) Allowable Concentrations	430	NA	NA	NA	1454	NA	61,678	290
C-300 Cooling Water Tank Measured Concentrations	<0.007	NA	NA	NA	0.026	NA	<5	<0.01
Die Cleaning Allowable Concentrations <sup>1</sup>	8.8 / 3.6	NA	NA	NA	29 / 12.4	NA	1066 / 521	2.3
Die Cleaning Measured Concentrations	<0.007	NA	NA	NA	0.16	NA	<5	<0.01
Pond Allowable Concentration	0.940	4.480	0.576	5.686	3.191	NA	73.225	0.092
Pond Measured Concentration	<0.007	0.12	<0.04	<0.01	0.016	NA	<5	<0.01
C-350 Aluminum Extrusion Tank 1 (Cleaning or Etching Bath) Measured Concentration	NA	NA	NA	NA	NA	NA	NA	NA
C-350 Aluminum Extrusion Tank 2 (Cleaning or Etching Rinse) Measured Concentration	NA	NA	NA	NA	NA	NA	NA	NA
C-350 Aluminum Extrusion Tank 3 (Cleaning or Etching Rinse) Measured Concentration	NA	NA	NA	NA	NA	NA	NA	NA
C-350 Aluminum Extrusion Tank 4 (Cleaning or Etching Bath) Measured Concentration	NA	NA	NA	NA	NA	NA	NA	NA
C-350 Aluminum Extrusion Tank 4 Measured Concentration	NA	NA	NA	NA	NA	NA	NA	NA
C-350 Cooling Water Tank (Aluminum Extrusion) Allowable Concentrations	335.8	NA	NA	NA	1,134	NA	48,098	226.9
C-350 Cooling Water Tank Measured Concentrations	<0.007	NA	NA	NA	0.014	NA	<5	<0.01
C-285 Copper Extrusion Tank 1 (Pickling Bath) Measured Concentration	NA	NA	NA	NA	NA	NA	NA	NA
C-285 Copper Extrusion Tank 2 (Pickling Rinse) Measured Concentration	NA	NA	NA	NA	NA	NA	NA	NA
C-285 Copper Extrusion Tank 3 (Pickling Bath) Measured Concentration	NA	NA	NA	NA	NA	NA	NA	NA
C-285 Copper Extrusion Tank 4 (Pickling Rinse) Measured Concentration	NA	NA	NA	NA	NA	NA	NA	NA
C-285 Copper Extrusion Tank 5 (Pickling Rinse) Measured Concentration	NA	NA	NA	NA	NA	NA	NA	NA
C-285 Copper Extrusion Tank 6 (Pickling Bath) Measured Concentration	117.8	683.1	88.3	865.7	412.2	NA	8198	NA
C-285 Copper Extrusion Tank 6 Measured Concentration	<0.007	0.99	<0.04	<0.01	0.026	NA	<5	<0.01
C-285 Cooling Water Tank (Copper Extrusion) Allowable Concentrations	0.899	4.994	0.649	4.994	2.497	NA	59.9	NA
C-285 Cooling Water Tank Measured Concentrations <sup>2,3</sup>	<0.007	0.99	<0.04	<0.01	0.026	NA	<5	<0.01

40CFR136 Preservation and Analytical Methods Use:  Yes  No

- ① Tracking pond loading only since it represents over 95% of mass loading to POTW.
- ② Algonquin is allowed to test for O&G in lieu of testing for TTO.
- ③ Both max & ave limits are shown for die cleaning; die cleaning is the only operation with continuous flow.

④ NOTE: Enter ALL data and Algonquin's allowable conc limits (shown above) into ANPCAN database; verify these limits later by clicking "calc limit" button on workbook, "ANPCAN-VB-MACRO-Library"  
 ✓ ⇒ Allowable limits confirmed by ANPCAN!

<sup>1</sup> Listed as daily maximum and monthly average respectively  
<sup>2</sup> Contents of tank not released to POTW  
<sup>3</sup> Volume composite sample taken for all tanks

(4) FLOW MEASUREMENT

B. INDIVIDUAL PROCESS WASTESTREAMS DISCHARGED TO POTW

Operation	Average Flow Rate (gpd)	Number of Discharge Days	Batch Discharge Volume	Type of Discharge
<b>Process:</b>				
#1 §467.15 Solution Heat Treatment <sup>1</sup> (Aluminum Rolling)	NA 1	NA	26,667 gallons discharged to the POTW July 1, 2011 (most recent discharge)	Batch discharge from recirculation pond
#5 §467.35 Cleaning or Etching Rinse (Aluminum Extrusion)	NA 5	NA	Not in service	Batch discharge to either POTW or waste oil tank
#5 467.35 Cleaning or Etching Bath (Aluminum Extrusion)	NA 5	NA	Not in service	Batch discharge to either POTW or waste oil tank
#5 §467.35 Press Heat Treatment (Aluminum Extrusion)	NA 3	NA	Not in service	Batch discharge from Aluminum Extrusion (C-350) Product Cooling Tank
#6 §468.14(m) Pickling Bath (Copper Extrusion)	NA 6	NA	Two 200-gallon tanks sent for disposal on September 1, 2010 (most recent discharge)	Batch discharge to either POTW or waste oil tank
#6 §468.14(k) Pickling Rinse (Copper Extrusion)	NA 6	NA	Not in service	Batch discharge to either POTW or waste oil tank
#6 §468.14(e) Extrusion Heat Treatment (Copper Extrusion)	NA 6	NA	One 200-gallon tank sent for disposal on September 1, 2010 (most recent discharge)	Batch discharge from Copper Extrusion (C-285) Product Cooling Tank
#2 §467.35 Core-Die Cleaner (Aluminum Extrusion)	20 2	N/A	N/A	Intermittent
#3 §467.35 Press Heat Treatment (Aluminum Extrusion)	NA 3	NA	One 300-gallon tanks one discharged to the POTW on October 23, 2009. (most recent discharge)	Batch discharge from Aluminum Extrusion (C-300 & C-500) Cooling Water Tank
#4 §468.14(d) Solution Heat Treatment <sup>1</sup> (Copper Forming [Rolling])	NA 4	NA	26,667 gallons discharged to the POTW July 1, 2011 (most recent discharge)	Batch discharge from recirculation pond
<b>§403.6(e) Unregulated:</b>				
Air compressor condensate blowdown	10 (estimate)	129	N/A	Intermittent
Steam clean forklift wash area	5 (estimate)	129	N/A	Intermittent
<b>§403.6(e) Dilute:</b>				
Cooling water <sup>1</sup>	NA	NA	26,667 gallons discharged to the POTW July 1, 2011 (most recent discharge)	Batch discharge from recirculation pond
Sanitary	6,000 (estimate)	129	N/A	Continuous

<sup>1</sup>The 80,000 gallon batch discharge is comprised of several regulated and diluted source waters.

(5) MEASUREMENT OF POLLUTANTS

A. TYPE OF TREATMENT SYSTEM CHECK EACH APPLICABLE BLOCK

- Neutralization
- Chemical Precipitation and Sedimentation
- Chromium Reduction
- Cyanide Destruction
- Other \_\_\_\_\_
- None

B. COMMENTS ON TREATMENT SYSTEM

**(7) POLLUTION PREVENTION ACT OF 1990 [42 U.S.C. 13101 et seq.]**

§6002 [42 U.S.C. 13101] Findings and Policy (a) Policy. The Congress hereby declares to be the public policy of the United States the pollution of public waters and other waters, including the oceans and their coastal waters, by toxic and hazardous substances, and the discharge of such substances into the environment, to be a national public health, safety, and environmental problem, and that it is the policy of the United States to prevent, reduce, and eliminate such discharges and to ensure that the maximum practicable level of protection is achieved in order to protect the public health and safety of the people.

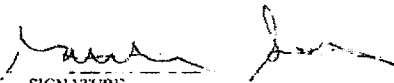
The User may list any new or ongoing Pollution Prevention practices:

**(8) GENERAL COMMENTS**

**(9) SIGNATORY REQUIREMENTS [40CFR403.12(f)]**

I certify under penalty of law that I have personally examined and am familiar with the information in this semi-annual compliance report and all attachments, and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the report, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Matthew Stowe  
NAME OF CORPORATE OFFICER OR AUTHORIZED REPRESENTATIVE  
General Manager Operations  
OFFICIAL TITLE

  
SIGNATURE  
28 Sep 2012  
DATE SIGNED

(6) CERTIFICATION

A. CHECK ONE:  CYANIDE ANALYSIS ATTACHED  CYANIDE CERTIFICATION PROVIDED BELOW (September SAR Only)

In accordance with §467.03(a), based on my inquiry of the person or persons directly responsible for managing compliance with pretreatment standards, I certify that to the best of my knowledge, cyanide has not been used or generated and will not be used or generated in our processes which are regulated by the Aluminum Forming (40 CFR 467.35) categorical pretreatment standards since analyzing the first wastewater sample in January, February, or March of this calendar year; and that the results of the first analysis contained less than 0.07 mg/l cyanide.

\_\_\_\_\_  
(Typed Name)

\_\_\_\_\_  
(Corporate Officer or authorized representative)

\_\_\_\_\_  
Date of Signature

B. CHECK ONE:  REQUIRED TOXIC ORGANIC ANALYSIS ATTACHED  O&G ANALYSIS ATTACHED

In accordance with §467.03(b) & §468.03(b), as an alternative monitoring procedure for pretreatment, the POTW user may measure and limit oil and grease to the levels shown in Section 5.C in lieu of measuring and regulating total toxic organics (TTO).

CORPORATE ACKNOWLEDGEMENT (Optional)

STATE OF ARKANSAS  
COUNTY OF MISSISSIPPI

Before me, the undersigned authority, on this day personally appeared

\_\_\_\_\_ of \_\_\_\_\_

a corporation, known to me to be the person whose name is subscribed to the foregoing instrument(s), and acknowledged to me that he executed the same for purposes and considerations therein expressed, in the capacity therein stated and as the act and deed of said corporation.

Given under my hand and seal of office on this \_\_\_\_\_ day of \_\_\_\_\_, 199\_\_.

\_\_\_\_\_  
Notary Public in and for \_\_\_\_\_  
County, Arkansas

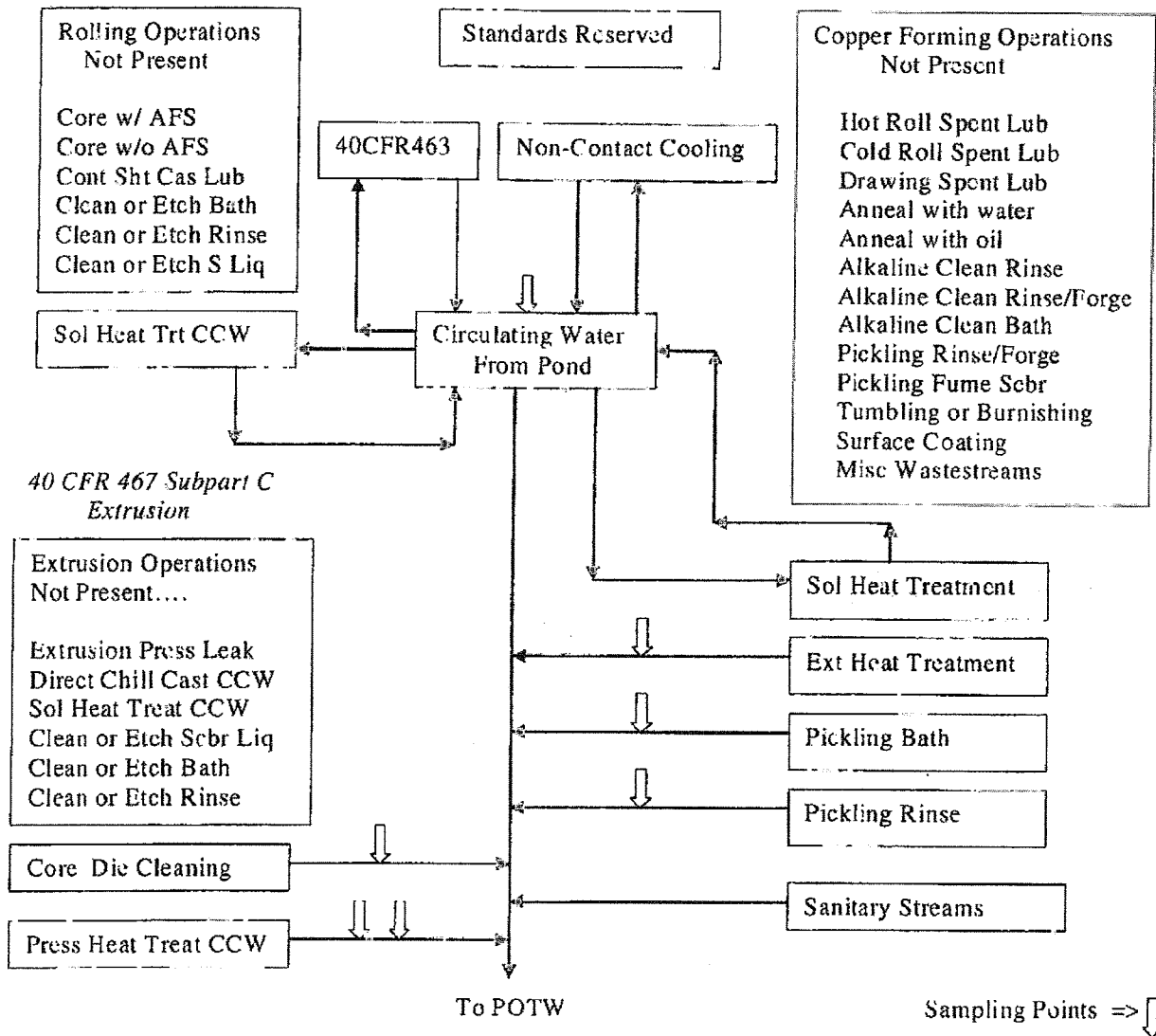
My commission expires \_\_\_\_\_.

Algonquin Industries Osceola, Arkansas March 2011

40 CFR 467 Subpart A Operations  
Rolling with Neat Oils

40CFR463 Subpart A  
Contact Cooling

40 CFR 468 Subpart A Operations  
Copper Forming



§403.6(e) Nonregulated Streams  
Not Present

§403.6(d) Dilution is not applicable  
to facilities with only prod-based  
streams.

If a stream is not present, show NOT PRESENT or N/P. If a stream is present, the wastewater can enter the POTW but currently has no flow, show 0.0 gpd. If a stream is present, the wastewater cannot enter the POTW, show Zero Discharge or Z/D. If an unregulated stream is present but the User has decided not to declare it at this time, show N/P.

Signature of §403.12(h) Professional

Date

I certify under penalty of law that I have personally examined and am familiar with the information in this document and that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation.

*[Signature]*  
Plant Manager or the authorized §403.12(l) official

20 Sep 2012  
Date  
AGQ Diagram ( March 21, 2011)

**ATTACHMENT 1**

**Flow Schematics**