

## Source Inspection Report

COMPANY: Arrow Uniform Rental  
4545 Calumet Avenue  
Hammond, Indiana 46327  
(219) 931-9418

<u>*Violation(s) Observed (Y/N)?</u>	
<b>State</b>	No
<b>Local</b>	No

SOURCE ID NUMBER: 089-00253      INSPECTION DATE: May 31, 2016  
SOURCE CLASSIFICATION: Local/State      LEVEL: Annual  
Registration  
OPERATION PERMIT TYPE: Local/State      TYPE: 2  
Registration  
OPERATION PERMIT NO(s): Local  
03695-03698  
State Registration  
R089-16793-00253  
  
ISSUE DATE(s): Local      INSPECTOR: Michael Zabrecky  
January 29, 2016  
State Registration  
January 31, 2003  
  
PERMIT REVISION DATE: N/A  
  
REPORT WRITTEN BY: Michael Zabrecky

FACILITIES INSPECTED: Entire Facility

PERSON(s) INTERVIEWED: John Otrembiak, Chief Engineer

INSPECTION OBJECTIVE(s):

To perform an unannounced inspection to evaluate Arrow Uniform Rental's compliance with applicable air pollution regulations specified in their local operation permit.

SUMMARY OF INSPECTION:

On May 31, 2016, an Annual Inspection was conducted at Arrow Uniform Rental. This facility holds four (4) operation permits: one for a Ludell-Direct Contact Water Heater, one for a Washing and Drying Process #1, one for a Parker Package Boiler and one for a Washing and Drying Process #2.

All the permitted items were in operation.

No violations or visible emissions observed.

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### ENTRY INTERVIEW:

Upon entry, I met with the new Chief Engineer for Arrow Uniform Rental, Mr. John Otrembiak. I informed him that this is an Annual Inspection and that I wanted to inspect the State Registered and locally permitted items. He also stated, when asked, that he would be the new Contact Person for the Company.

### INSPECTION OBSERVATION(S):

The potential to emit (as defined in 326 IAC 2-7-1(30)) of all criteria pollutants is less than 100 tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7. The Particulate Matter (PM) and Particulate Matter less than 10 microns (PM-10) have a potential to emit greater than five (5) tons per year and less than twenty-five tons per year, therefore, it is subject to 326 IAC 2-5.5 - Registration.

1. Process Equipment: Ludell-Direct Contact Water Heater
2. Process Description:  
This unit is rated at 6.0 MMBtu/hr heat input and is natural gas-fired only. It has the capability of heating 200 G.P.M. from 80°F to 180°F.
3. Pollutants Emitted:  
Total suspended particulates (TSP), volatile organic compounds (VOC), sulfur dioxide (SO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), and carbon monoxide (CO)
4. Control Equipment:  
There is no control equipment.
5. Applicable Rules:  
Provisions of 326 IAC Article 2 (State Permit Review Rule) and Hammond Ordinances No. 7102 (Environmental) and No. 3522 (as amended) (Air Pollution Control).
6. Emission Limitations and Standards:

TSP	= 0.043 lbs/hr	= 0.190 Tons Per Year (TPY)
VOC	= 0.031 lbs/hr	= 0.138 TPY
SO <sub>2</sub>	= 0.003 lbs/hr	= 0.015 TPY
NO <sub>x</sub>	= 0.571 lbs/hr	= 2.503 TPY
CO	= 0.480 lbs/hr	= 2.102 TPY
7. Other Permit Requirements:  
See the General Operation Permit Conditions.
8. Observations:  
The water heater was in operation. No visible emissions or modifications observed.
9. Records Review:  
No records review is required.

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10. Compliance Status:  
No violations observed or determined during the plant inspection.
1. Process Equipment: Washing & Drying Process No. 1  
One (1) 700-lb Washex Washer  
Three (3) 480-lb Washex Washers  
Two (2) 200-lb Challenge Flo-90 Dryers  
One (1) 100-lb Cissel Dryer  
E.C.I. Lint Collector
2. Process Description:  
This process includes one (1) 700-lb Washex Washer, three (3) 480-lb Washex Washers, two (2) 200-lb Challenge Flo-90 Dryers, and one (1) 100-lb Cissel Dryer. Emissions are controlled by an E.C.I. Lint Collector with a control efficiency of 98%.
3. Pollutants Emitted:  
Total suspended particulates (TSP), volatile organic compounds (VOC), sulfur dioxide (SO<sub>2</sub>), nitrogen oxide (NO<sub>x</sub>), and carbon monoxide (CO).
4. Control Equipment:  
E.C.I. Lint Collector
5. Applicable Rules:  
Provisions of 326 IAC Article 2 (State Permit Review Rule) and Hammond Ordinances No. 7102 (Environmental) and No. 3522 (as amended) (Air Pollution Control).
6. Emission Limitations:
- |                 |                |                             |
|-----------------|----------------|-----------------------------|
| TSP             | = 0.052 lbs/hr | = 0.228 Tons Per Year (TPY) |
| VOC             | = 0.026 lbs/hr | = 0.115 TPY                 |
| SO <sub>2</sub> | = 0.003 lbs/hr | = 0.013 TPY                 |
| NO <sub>x</sub> | = 0.476 lbs/hr | = 2.086 TPY                 |
| CO              | = 0.400 lbs/hr | = 1.752 TPY                 |
7. Other Permit Requirements:  
See the General Operation Permit Conditions for 2016.
8. Observations:  
See the table below for operating status.

Items in the Permit	Operation Status
700 lb. Washex Washer	Operating
480 lb. Washex Washer	Operating
480 lb. Washex Washer	Operating
480 lb. Washex Washer	Operating
200 lb. Challenge Flo-90 Dryer	Operating
200 lb. Challenge Flo-90 Dryer	Operating

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Items in the Permit	Operating Status
100 lb. Cissel Dryer	Operating
E.C.I. Lint Collector	Operating

No visible emissions were observed.

9. Records Review:

Copies of the following were obtained for review:

The Preventative Maintenance Plan (PMP) (General Operation Permit Condition #4): These records showed that the company cleans the E.C.I. Lint Collector, and checks the roof and grounds outside the plant.

10. Compliance Status:

No violations observed or determined during the plant walkthrough. No violations noted during review of records.

1. Process Equipment: **Parker Package Boiler**

2. Process Description:

This unit has a maximum design capacity of 4.830 MMBtu/hr heat input (115 H.P.) and is natural gas-fired only. The basic use of the boiler is for process steam.

3. Pollutants Emitted:

Total suspended particulates (TSP), volatile organic compounds (VOC), sulfur dioxide (SO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), and carbon monoxide (CO).

4. Control Equipment:

No control equipment for the boiler.

5. Applicable Rules:

Provisions of 326 IAC Article 2 (State Permit Review Rule) and Hammond Ordinances No. 7102 (Environmental) and No. 3522 (as amended) (Air Pollution Control).

6. Emission Limitations:

TSP	= 0.035 lbs/hr	= 0.153 Tons Per Year (TPY)
VOC	= 0.025 lbs/hr	= 0.111 TPY
SO <sub>2</sub>	= 0.003 lbs/hr	= 0.012 TPY
NO <sub>x</sub>	= 0.460 lbs/hr	= 2.015 TPY
CO	= 0.386 lbs/hr	= 1.692 TPY

7. Other Permit Requirements:

See the General Operation Permit Conditions for 2016.

8. Observations:

The boiler was in operation. No visible emissions or modifications observed.

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9. Records Review:  
No record review is required.
10. Compliance Status:  
No violations observed or determined during the plant inspection.
1. Process Equipment: Washing & Drying Process No. 2  
Two (2) 700-lb Washex Washers  
One (1) 125-lb Milnor Washer  
One (1) 125-lb Washex Washer  
One (1) 50-lb Washex Washer  
Two (2) 400-lb Challenge Flo-90 Dryers  
One (1) 100-lb Cissel Dryer  
One (1) SMC-Lint Collector
2. Process Description:  
This process includes two (2) 700-lb Washex Washers, one (1) 125-lb Milnor Washer, one (1) 125-lb Washex Washer, one (1) 50-lb Washex Washer, two (2) 400-lb Challenge Flo-90 Dryers, and one (1) 100-lb Cissel Dryer. Emissions are controlled by an SMC-Lint Collector with a collection efficiency of 95%.
3. Pollutants Emitted:  
Total suspended particulates (TSP), volatile organic compounds (VOC), sulfur dioxide (SO<sub>2</sub>), nitrogen oxide (NO<sub>x</sub>), and carbon monoxide (CO).
4. Control Equipment:  
SMC-Lint Collector
5. Applicable Rules:  
Provisions of 326 IAC Article 2 (State Permit Review Rule) Hammond Ordinance No. 7102 (Environmental) and Hammond Ordinance No. 3522 (as amended) (Air Pollution Control).
6. Emission Limitations:
- |                 |                |                             |
|-----------------|----------------|-----------------------------|
| TSP             | = 0.072 lbs/hr | = 0.315 Tons Per Year (TPY) |
| VOC             | = 0.031 lbs/hr | = 0.138 TPY                 |
| SO <sub>2</sub> | = 0.003 lbs/hr | = 0.015 TPY                 |
| NO <sub>x</sub> | = 0.571 lbs/hr | = 2.503 TPY                 |
| CO              | = 0.480 lbs/hr | = 2.102 TPY                 |
7. Other Permit Requirements:  
See the General Operation Permit Conditions.
8. Observations:  
See the following table on the operation status on the next page.

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Items in Permit	Operating Status
700 lb. Washex Washer	Operating
700 lb. Washex Washer	Operating
125 lb. Milnor Washer	Operating
125 lb. Washex Washer	Operating
50 lb. Washex Washer	Operating
400 lb. Challenge Flo-90 Dryer	Operating
400 lb. Challenge Flo-90 Dryer	Operating
100 lb. Cissel Dryer	Operating
SMC-Lint Collector	Operating

No visible emissions observed.

9. Records Review:

Copies of the following were obtained for review:

The Preventative Maintenance Plan (PMP) (General Operation Permit Condition #4).

10. Compliance Status:

No violations observed or determined during the plant inspection.

**CONCLUSION(s)/RECOMMENDATION(s) :**

The entire plant was inspected. No problems, visible emissions, or new sources of air emissions were observed.

**EXIT INTERVIEW:**

Mr. Otrembiak mentioned that there were several washer size discrepancies (700 lb. Washex should be a 600 lb. Washex and the 125 lb. Milner should be a 135 lb. Milner) listed in the 2016 Operation Permits. The Inspector stated to him that these issues would be reviewed and discussed with Department personnel, and that a follow up phone call may be necessary to correct these inconsistencies for next year's permits.