

## Source Inspection Report

COMPANY: Southern Electric Coil, LLC  
5025 Columbia Avenue  
Hammond, Indiana 46327  
(219) 931-5500

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

SOURCE ID NUMBER: N/A                      INSPECTION DATE: February 17, 2017  
SOURCE CLASSIFICATION: Local                      LEVEL: Annual  
OPERATION PERMIT TYPE: Local                      TYPE: 2  
OPERATION PERMIT NO(s): 03775-03778  
ISSUE DATE: January 27, 2017                      INSPECTOR: Michael Zabrecky  
PERMIT REVISION DATE: N/A  
REPORT WRITTEN BY: Michael Zabrecky

FACILITIES INSPECTED: Entire Plant

PERSON(s) INTERVIEWED: Jim Thomas, Plant Manager

INSPECTION OBJECTIVE(s):

To perform an unannounced inspection to evaluate the Southern Electric Coil LLC's compliance with applicable air pollution regulations specified in their local operation permit.

SUMMARY OF INSPECTION:

On February 17, 2017, an Annual Inspection was conducted at Southern Electric Coil, LLC. This facility holds four (4) operation permits for an Armature/Stator Process, a Despatch Oven Incinerator, a Field Coil Production Process, and a Tinning Pot with a Torit Dust Collector.

See the table below on the operating status of each of these listed items.

<u>Permitted Items</u>	<u>Operating (Yes, No)</u>
Armature/Stator Process	Yes
Despatch Oven Incinerator	No
Field Coil Production Process	Yes
Tinning Pot with Torit Dust Collector	Yes

No violations or visible emissions were observed during the inspection.

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### ENTRY INTERVIEW:

Upon entry, I met with Jim Thomas, Plant Manager of Southern Electric Coil, LLC. I informed him that this is an Annual Inspection, and that I wanted to inspect the locally permitted items.

### INSPECTION OBSERVATION(S)

1. Process Equipment: Armature/Stator Process:
2. Process Description:  
This process includes one (1) Young Brothers Bake Oven with a maximum design capacity of 0.618 MMBtu/hr heat input. The basic use of the oven is to bake-on lacquer as an insulation to cover the copper on transformers and other items.
3. Pollutants Emitted:  
Particulate matter (PM)
4. Control Equipment:  
There is no control equipment.
5. Applicable Rules:  
The provisions of 326 IAC Article 2 (State Permit Review Rules) and Hammond Ordinances #7102 (Environmental Management) and #3522 (as Amended) (Air Pollution Control)
6. Emission Limitations:  
PM = 0.132 lbs/hr
7. Other Permit Requirements:  
See the General Operation Permit Conditions for 2017.
8. Observations:  
The oven was in operation with an operating temperature of 331° Fahrenheit. No modifications or visible emissions observed.
9. Records Review:  
No records review is required.
10. Compliance Status:  
No violations observed or determined during the plant inspection.
1. Process Equipment: Despatch Oven Incinerator:
2. Process Description:  
This unit is used to burn off existing electrical coil insulation so that the wire can be re-insulated. The oven has a maximum design capacity of 1.0 MMBtu/hr heat input. The maximum burn-off rate is 17 lbs/hr.

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3. Pollutants Emitted:  
Particulate Matter (PM)
  4. Control Equipment:  
An afterburner
  5. Applicable Rules:  
Provisions of 326 IAC Article 2 (State Permit Review Rules), 326 IAC 4-2-2(Incinerators) and Hammond Ordinances #7102 (Environmental Management) and #3522 (as Amended) (Air Pollution Control)
  6. Emission Limitations:  
PM = 0.5 lbs per 1,000 pounds of dry exhaust gas at standard conditions corrected to 50% excess air.
  7. Other Permit Requirements:  
See the General and Special Operation Permit Conditions for 2017.
  8. Observations:  
The incinerator was not in operation. No modifications were observed.
  9. Records Review:  
No records review is required.
  10. Compliance Status:  
No violations observed or determined during the plant inspection.
  1. Process Equipment: **Field Coil Production Process**
  2. Process Description:  
This process includes one (1) Michigan Bake Oven with a maximum design capacity of 0.618 MMBtu/hr heat input.
  3. Pollutants Emitted:  
Particulate Matter (PM)
  4. Control Equipment:  
There is no control equipment.
  5. Applicable Rules:  
Provisions of 326 IAC Article 2 (State Permit Review Rules) and Hammond Ordinances #7102 (Environmental Management) and #3522 (as Amended) (Air Pollution Control)
  6. Emission Limitations:  
PM = 0.132 lbs/hr
  7. Other Permit Requirements:  
See the General Operation Permit Conditions for 2017.

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8. Observations:  
This Process was in operation with a temperature of 300° Fahrenheit. No visible emissions or modifications observed.
9. Records Review:  
No records review is required.
10. Compliance Status:  
No violations observed or determined during the plant inspection.
1. Process Equipment: Tinning Pot with Torit Dust Collector:
2. Process Description:  
This process includes one (1) natural gas-fired tinning pot with a 75-lb capacity. The maximum design rate of tinned copper leads produced is 25 units per hour. Emissions from this process shall be controlled by a Torit Dust Collector (Model 2D4F) with a collection efficiency of 99.9% for lead dust/particulates.
3. Pollutants Emitted:  
Particulate matter (PM), sulfur dioxide (SOx), nitrogen oxides (NOx), volatile organic compounds (VOC), and carbon monoxide (CO)
4. Control Equipment:  
Torit Dust Collector (Model 2D4F)
5. Applicable Rules:  
Provisions of 326 IAC Article 2 (State Permit Review Rules) and Hammond Ordinances #7102 (Environmental Management) and #3522 (as Amended) (Air Pollution Control)
6. Emission Limitations:
- |     |                 |                              |
|-----|-----------------|------------------------------|
| PM  | = 0.0026 lbs/hr | = 0.0116 Tons Per Year (TPY) |
| SOx | = 0.0003 lbs/hr | = 0.0014 TPY                 |
| NOx | = 0.0520 lbs/hr | = 0.2278 TPY                 |
| VOC | = 0.0029 lbs/hr | = 0.0125 TPY                 |
| CO  | = 0.0437 lbs/hr | = 0.1913 TPY                 |
7. Other Permit Requirements:  
See the General Operation Permit Conditions for 2017.
8. Observations:  
Both the natural gas-fired tinning pot, and its collector were in operation. No modifications or visible emissions were observed from these units.
9. Records Review:  
The Preventative Maintenance Plan (PMP) was reviewed for the dust collector.

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10. Compliance Status:

No violations observed or determined during the plant inspection.

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

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