



Catherine B. Templeton, Director

*Promoting and protecting the health of the public and the environment*

August 5, 2013

Ms. Katie Williams  
C.R. Jackson, Inc.  
PO Box 521  
Darlington, SC 29540

RE: Notice of Permit Coverage  
C R Jackson, Inc. - Florence Plant #418  
Permit Number: 9900-0160

Dear Ms. Jackson:

The Department has renewed the Bureau of Air Quality's General Conditional Major Operating Permit for Asphalt Plants ("General Permit"). The renewed permit was issued on July 15, 2013 and will be valid through June 30, 2018. This permit supersedes any previous construction and/or operating permit issued to your facility. Your facility's coverage under the terms and conditions of this permit begins on August 5, 2013.

A copy of the General Permit and your facility's attachment(s) are enclosed with this letter. It is your responsibility to comply with all the requirements of this General Permit. The Department may conduct periodic inspections of your facility to determine compliance with the requirements of the General Permit. Any violations found during these inspections may result in an enforcement action. Therefore, it is incumbent upon you to ensure you are in compliance with the General Permit at all times. It is important for you to read this issued permit carefully and to understand all requirements. If any errors or emissions are found, immediately notify Kirk Schneider of my staff, via e-mail at [Schneikg@dhec.sc.gov](mailto:Schneikg@dhec.sc.gov), or call (803) 898-4023.

If your facility no longer requires this permit, please submit DHEC Form D-2374 ("Permit Cancellation / Temporary Closure") to cancel your coverage under the General Permit. If coverage is not cancelled, you are responsible for all annual General Permit fees.

In the event, you disagree with the decision to approve the General Permit, or the terms and conditions of the General Permit, the enclosed "Guide to Board Review" explains the process for contesting the Department's decision.

Sincerely,

Elizabeth J. Basil  
Director, Engineering Services Division  
Bureau of Air Quality

EJB:kgs:kal  
Enclosure

cc: Permit File: 9900-0160  
ec: Bryan Baxley, BEHS

## ATTACHMENT A

### FACILITY INFORMATION C R Jackson, Inc. - Florence Plant #418 GCM-9900-0160 Page 1 of 2

#### A - APPLICABLE PERMIT DATES

COVERAGE DATE: August 5, 2013

#### B - FACILITY PHYSICAL ADDRESS

FACILITY STREET ADDRESS: 1550 E. Campground Rd.  
CITY, STATE, ZIP FACILITY IS LOCATED IN: Florence, SC 29506  
COUNTY FACILITY IS LOCATED IN: Florence

| C - FACILITY EQUIPMENT |  |   |                   |
|------------------------|--|---|-------------------|
| Equipment ID           | Equipment Description  | Installation Date/<br>Modification Date | Control Device ID |
| AP                     | 400 tph Drum Mix Asphalt Plant<br>(40CFR60 Subpart I Applicable)   | 1993                                    | BH                |
| DB                     | 120E+06 Btu/hr Asphalt Plant Dryer Burner<br>No.2 Fuel Oil (Maximum Sulfur Content 0.5%) and Recycled<br>No.4 Fuel Oil (Maximum Sulfur Content 1.5%) as Burner fuels | 1993                                    | BH                |
| LS                     | Lime Silo  | 1993                                    | BV                |

| D - FACILITY CONTROL DEVICES |                            |   |  |
|------------------------------|----------------------------|---|--|
| Control Device ID            | Control Device Description | Installation Date/<br>Modification Date | Pollutant(s) Controlled                  |
| BH                           | Pulse Jet Baghouse         | 1993                                    | PM, PM <sub>10</sub> , PM <sub>2.5</sub> |
| BV                           | Bin Vent Baghouse          | 2005                                    | PM, PM <sub>10</sub> , PM <sub>2.5</sub> |

| E - FACILITY EXEMPT EQUIPMENT |  |                   |  |
|-------------------------------|--|-------------------|--|
| Equipment ID                  | Source Description   | Installation Date | Basis                                      |
| HOH                           | 1.25E+06 Btu/hr Hot Oil Heater<br>No.2 Fuel Oil (Maximum Sulfur<br>Content 0.5%) and Recycled No.4<br>Fuel Oil (Maximum Sulfur<br>Content 1.5%) as Fuels | 2006              | SC Regulation 61-62.1, Section II(B)(2)(h) |
| LAT-1                         | 25,000 gallon Liquid Asphalt<br>Tank No.1  | 2006              | SC Regulation 61-62.1, Section II(B)(2)(h) |
| LAT-2                         | 25,000 gallon Liquid Asphalt<br>Tank No.2  | 2006              | SC Regulation 61-62.1, Section II(B)(2)(h) |
| FOT-1                         | 20,000 gallon No.2 Fuel Oil Tank   | 2006              | Air Permitting Exemption List              |
| FOT-2                         | 15,000 gallon No.4 Fuel Oil Tank   | 2006              | Air Permitting Exemption List              |



## ATTACHMENT B

### MODELED EMISSION RATES C R Jackson, Inc. - Florence Plant #418 GCM-9900-0160 Page 1 of 5

The emission rates listed herein are not considered federally enforceable limitations but are used to evaluate ambient air quality impact. Until the Department makes a determination that a facility is causing or contributing to an exceedance of a state or federal ambient air quality standard, increases to these emission rates are not in themselves considered violations of these ambient air quality standards.

| <b>STANDARD NO.2 - MODELED AAQS EMISSION RATES (lb/hr)</b> |                        |                         |                       |                       |           |             |           |
|--|------------------------|-------------------------|-----------------------|-----------------------|-----------|-------------|-----------|
| <b>STACK ID</b>  | <b>PM<sub>10</sub></b> | <b>PM<sub>2.5</sub></b> | <b>SO<sub>2</sub></b> | <b>NO<sub>x</sub></b> | <b>CO</b> | <b>Lead</b> | <b>HF</b> |
| EP01   | 9.200                  | 1.160                   | 23.200                | 22.000                | 52.000    | --          | --        |

| <b>STANDARD NO.7 - MODELED PSD CLASS II INCREMENT EMISSION RATES (lb/hr)</b> |                                      |                         |                       |                       |
|--|--------------------------------------|-------------------------|-----------------------|-----------------------|
| <b>STACK ID</b>  | <b>Minor Source Baseline Date(s)</b> |                         |                       |                       |
|  | <b>9/28/1978</b>                     | <b>N/A</b>              | <b>9/28/1978</b>      | <b>5/31/2006</b>      |
|  | <b>PM<sub>10</sub></b>               | <b>PM<sub>2.5</sub></b> | <b>SO<sub>2</sub></b> | <b>NO<sub>x</sub></b> |
| EP01   | 9.200                                | --                      | 23.200                | --                    |

| <b>STANDARD NO.8 - MODELED AIR TOXIC EMISSION RATES (lb/hr)</b> |                 |                |                  |                     |
|---|-----------------|----------------|------------------|---------------------|
| <b>STACK ID</b>   | <b>Acrolein</b> | <b>Benzene</b> | <b>Cadmium</b>   | <b>Formaldehyde</b> |
|   | <b>107-02-8</b> | <b>71-43-2</b> | <b>744-043-9</b> | <b>50-00-0</b>      |
| EP01  | 0.010           | 0.156          | 0.0002           | 1.240               |
| EP02A   | --              | 0.0005         | --               | 0.0112              |
| EP02B   | --              | 0.0003         | --               | 0.0005              |
| EP03A   | --              | 0.0005         | --               | 0.0112              |
| EP03B   | --              | 0.0003         | --               | 0.0005              |
| EP04A   | --              | 0.0005         | --               | 0.0112              |
| EP04B   | --              | 0.0003         | --               | 0.0005              |

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| <b>STANDARD NO.8 - MODELED AIR TOXIC EMISSION RATES (lb/hr)</b> |                  |                  |               |                 |
|---|------------------|------------------|---------------|-----------------|
| <b>STACK ID</b>   | <b>Mercury</b>   | <b>Nickel</b>    | <b>POMs</b>   | <b>Quinone</b>  |
|   | <b>743-997-6</b> | <b>744-002-0</b> | <b>varies</b> | <b>106-51-4</b> |
| EP01  | 0.001            | 0.025            | 0.354         | 0.064           |
| EP02A   | --               | --               | 0.0039        | --              |
| EP02B   | --               | --               | 0.0027        | --              |
| EP03A   | --               | --               | 0.0039        | --              |
| EP03B   | --               | --               | 0.0027        | --              |
| EP04A   | --               | --               | 0.0039        | --              |
| EP04B   | --               | --               | 0.0003        | --              |

| <b>STANDARD NO.8 - MODELED AIR TOXIC EMISSION RATES (lb/hr)</b> |                 |
|---|-----------------|
| <b>STACK ID</b>   | <b>Toluene</b>  |
|   | <b>108-88-3</b> |
| EP01  | 1.160           |
| EP02A   | 0.0010          |
| EP02B   | 0.0012          |
| EP03A   | 0.0010          |
| EP03B   | 0.0012          |
| EP04A   | 0.0010          |
| EP04B   | 0.0012          |

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### MODELED EMISSION RATES C R Jackson, Inc. - Florence Plant #418 GCM-9900-0160 Page 3 of 5

| STANDARD NO. 8 – POM EMISSION RATES (lb/hr) |          |                   |          |
|---|----------|-------------------|----------|
| POLLUTANT                                   | CAS #    | STACK ID          |          |
|   |          | Production = EP01 | LOSL     |
| Acenaphthene                                | 83-32-9  | 5.60E-04          | 8.32E-04 |
| Acenaphthylene                              | 208-96-8 | 8.80E-03          | 5.24E-05 |
| Anthracene                                  | 120-12-7 | 1.24E-03          | 2.27E-04 |
| Benzo(a)anthracene                          | 56-55-3  | 8.40E-05          | 8.28E-05 |
| Benzo(a)pyrene                              | 50-32-8  | 3.92E-06          | 3.14E-06 |
| Benzo(b)fluoranthene                        | 205-99-2 | 4.00E-05          | 1.04E-05 |
| Benzo(e)pyrene                              | 192-97-2 | 4.40E-05          | 2.03E-05 |
| Benzo(g,h,i)perylene                        | 191-24-2 | 1.60E-05          | 2.59E-06 |
| Benzo(k)fluoranthene                        | 207-08-9 | 1.64E-05          | 3.00E-06 |
| Chrysene                                    | 218-01-9 | 7.20E-05          | 3.54E-04 |
| Dibenz(a,h)anthracene                       | 53-70-3  | --                | 5.05E-07 |
| Fluoranthene                                | 206-44-0 | 2.44E-04          | 2.21E-04 |
| Fluorene                                    | 86-73-7  | 4.40E-03          | 2.08E-03 |
| Indeno(1,2,3-cd)pyrene                      | 193-39-5 | 2.80E-06          | 6.41E-07 |
| 2-Methylnaphthalene                         | 91-57-6  | 6.80E-02          | 8.60E-03 |
| Naphthalene                                 | 91-20-3  | 2.60E-01          | 3.55E-03 |
| Perylene                                    | 198-55-0 | 3.52E-06          | 6.05E-05 |
| Phenanthrene                                | 85-01-8  | 9.20E-03          | 2.93E-03 |
| Pyrene                                      | 129-00-0 | 1.20E-03          | 6.51E-04 |

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| STANDARD NO. 8 – TOXIC AIR POLLUTANTS LEVEL I DE MINIMIS ANALYSIS |            |                        |                     |               |
|---|------------|------------------------|---------------------|---------------|
| POLLUTANT   | CAS NUMBER | EMISSION RATE (lb/day) | DE MINIMIS (lb/day) | PASS (Y or N) |
| Acetaldehyde  | 75-07-0    | 12.480                 | 21.600              | Y             |
| Acrolein  | 107-02-8   | 0.250                  | 0.015               | N             |
| Arsenic   | 744-038-2  | 0.005                  | 0.012               | Y             |
| Benzene   | 71-43-2    | 3.802                  | 1.800               | N             |
| Cadmium   | 744-043-9  | 0.004                  | 0.003               | N             |
| Carbon Disulfide  | 75-15-0    | 0.024                  | 1.800               | Y             |
| Cobalt  | 744-048-4  | 2.50E-04               | 0.003               | Y             |
| Cumene  | 98-82-8    | 0.044                  | 0.108               | Y             |
| Ethyl Chloride  | 75-00-3    | 0.005                  | 316.800             | Y             |
| Ethylbenzene  | 100-41-4   | 2.460                  | 52.200              | Y             |
| Formaldehyde  | 50-00-0    | 30.602                 | 0.180               | N             |
| Hexane  | 110-54-3   | 9.009                  | 10.800              | Y             |
| Hexavalent chromium   | 1854-029-9 | 0.004                  | 0.030               | Y             |
| Hydrochloric Acid   | 7467-01-0  | 2.016                  | 2.100               | Y             |
| Manganese   | 743-996-5  | 0.074                  | 0.300               | Y             |
| MEK   | 78-93-3    | 0.257                  | 177.000             | Y             |
| Mercury   | 743-997-6  | 0.025                  | 0.003               | N             |
| Methyl Bromide  | 74-83-9    | 0.010                  | 1.200               | Y             |
| Methyl Chloride   | 74-87-3    | 0.033                  | 6.180               | Y             |
| Methyl chloroform   | 71-55-6    | 0.461                  | 114.600             | Y             |
| Methylene Chloride  | 75-09-2    | 3.16E-04               | 105.000             | Y             |
| Naphthalene   | 91-20-3    | 6.325                  | 15.000              | Y             |
| Nickel  | 744-002-0  | 0.605                  | 0.006               | N             |
| Phenol  | 108-95-2   | 0.039                  | 2.280               | Y             |

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| <b>STANDARD NO. 8 – TOXIC AIR POLLUTANTS LEVEL I DE MINIMIS ANALYSIS</b> |                   |                               |                            |                      |
|--|-------------------|-------------------------------|----------------------------|----------------------|
| <b>POLLUTANT</b>   | <b>CAS NUMBER</b> | <b>EMISSION RATE (lb/day)</b> | <b>DE MINIMIS (lb/day)</b> | <b>PASS (Y or N)</b> |
| POMs Totals  | varies            | 8.967                         | 1.920                      | N                    |
| Propionaldehyde  | 123-38-6          | 1.248                         | +                          | Y                    |
| Quinone  | 106-51-4          | 1.536                         | 0.024                      | N                    |
| Selenium   | 778-249-2         | 0.003                         | 0.012                      | Y                    |
| Styrene  | 100-42-5          | 0.009                         | 63.900                     | Y                    |
| 2,3,7,8-TCDD   | 1746-01-6         | 2.02E-09                      | 0.0005                     | Y                    |
| Tetrachloroethene  | 127-18-4          | 0.003                         | 40.200                     | Y                    |
| Toluene  | 108-88-3          | 27.996                        | 24.000                     | N                    |
| 2,2,4-Trimethylpentane   | 540-84-1          | 0.385                         | 105.000                    | Y                    |
| o-Xylene   | 95-47-6           | 0.099                         | 52.200                     | Y                    |
| Xylene   | 1330-20-7         | 2.318                         | 52.200                     | Y                    |