#### STATEMENT OF BASIS

for the issuance of Draft Air Permit # 511-AR-6

#### 1. **PERMITTING AUTHORITY:**

Arkansas Department of Environmental Quality 8001 National Drive Post Office Box 8913 Little Rock, Arkansas 72219-8913

#### 2. APPLICANT:

Amercable, Inc. 350 Bailey Road El Dorado, Arkansas 71730

**3. PERMIT WRITER:** Ann Sudmeyer

### 4. PROCESS DESCRIPTION AND SIC CODE:

NAICS Description: Drawing and Insulating of Nonferrous Wire

NAICS Code: 331422

**5. SUBMITTALS:** January 10, 2005

#### 6. REVIEWER'S NOTES:

Amercable, Inc. is a manufacturer of industrial cable. This facility is located in El Dorado, Union County, Arkansas. This de minimis modification is necessary to permit the cable curing tape operations (SN-10). This change will result in permitted emission rate increases of 2.0 tons per year of VOC, 0.21 tpy ethylene glycol, and 0.01 tpy formaldehyde.

The permit application referenced Glo-Tex Stripper PD. However, subsequent conversations revealed that Glo-Tex Stripper PD would not be used at the facility.

#### 7. COMPLIANCE STATUS:

The following summarizes the current compliance status of the facility including active/pending enforcement actions and recent compliance activities and issues

There are currently no enforcement actions against this facility.

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## **8. APPLICABLE REGULATIONS:**

## **PSD** Applicability

| Did the facility undergo PSD review in this permit (i.e., BACT, |     | N       |     |
|---|-----|---------|-----|
| Modeling, et cetera?  |     |         |     |
| Has this facility undergone PSD review in the past?             | Y/N | Permit# | N/A |
| Is this facility categorized as a major source for PSD?         | Y/N | N       |     |
| $\geq$ 100 tpy and on the list of 28 (100 tpy)?                 | Y/N | N       |     |
| ≥ 250 tpy all other   | Y/N | N       |     |

# **PSD Netting**

Was netting performed to avoid PSD review in this permit? Y/N N

Source and Pollutant Specific Regulatory Applicability

| Source         | Pollutant | Regulation [NSPS, NESHAP (Part 61 & Part 63), or PSD |  |  |  |
|----------------|-----------|--|--|--|--|
|                |           | <u>only</u> ]  |  |  |  |
| Not Applicable |           |  |  |  |  |

## 9. EMISSION CHANGES:

The following table summarizes plant wide emission changes associated with this permitting action.

|                   | Plant Wide Permitted Emissions (ton/yr) |                     |        |  |  |
|-------------------|---|---------------------|--------|--|--|
| Pollutant         | Air Permit 511-AR-5                     | Air Permit 511-AR-6 | Change |  |  |
| PM                | 1.4                                     | 1.4                 | 0      |  |  |
| $PM_{10}$         | 1.4                                     | 1.4                 | 0      |  |  |
| $SO_2$            | 0.4                                     | 0.4                 | 0      |  |  |
| VOC               | 42.3                                    | 44.3                | 2.0    |  |  |
| СО                | 8.0                                     | 8.0                 | 0      |  |  |
| $NO_X$            | 9.6                                     | 9.6                 | 0      |  |  |
| Acetone           | 19.7                                    | 19.7                | 0      |  |  |
| Acetophenone      | 7.5                                     | 7.5                 | 0      |  |  |
| Di(2-             |   |                     |        |  |  |
| ethylhexyl)phthal | 1 10                                    | 1.10                |        |  |  |
| ate               | 1.48                                    | 1.48                | 0      |  |  |
| Ethyl Benzene     | 0.86                                    | 0.86                | 0      |  |  |
| Ethylene Glycol   | 0                                       | 0.21                | 0.21   |  |  |
| Formaldehyde      | 0                                       | 0.01                | 0.01   |  |  |
| Lead              | 0.3                                     | 0.3                 | 0      |  |  |

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| Plant Wide Permitted Emissions (ton/yr) |   |      |   |  |  |  |
|---|---|------|---|--|--|--|
| Pollutant                               | Pollutant Air Permit 511-AR-5 Air Permit 511-AR-6 Chang |      |   |  |  |  |
| Methanol                                | 6.00  | 6.00 | 0 |  |  |  |
| Methylene                               |   |      |   |  |  |  |
| Chloride                                | 9.5   | 9.5  | 0 |  |  |  |
| Methyl Ethyl                            |   |      |   |  |  |  |
| Ketone                                  | 3.5   |      | 0 |  |  |  |
| Methyl Isobutyl                         |   |      |   |  |  |  |
| Ketone                                  | 9.5   | 9.5  | 0 |  |  |  |
| Toluene                                 | 9.5   | 9.5  | 0 |  |  |  |
| Xylene                                  | 3.77  | 3.77 | 0 |  |  |  |

### 10. MODELING:

#### **Criteria Pollutants**

Examination of the source type, location, plot plan, land use, emission parameters, and other available information indicate that modeling is not warranted at this time. All criteria pollutants are less than 100 tpy.

### 11. Non-Criteria Pollutants

## 1st Tier Screening (PAER)

Estimated hourly emissions from the following sources were compared to the Presumptively Acceptable Emission Rate (PAER) for each compound. The Department deemed PAER to be the product, in lb/hr, of 0.11 and the Threshold Limit Value (mg/m³), as listed by the American Conference of Governmental Industrial Hygienists (**ACGIH**).

|                 | TLV        | PAER (lb/hr) = |                |       |
|-----------------|------------|----------------|----------------|-------|
| Pollutant       | $(mg/m^3)$ | 0.11*TLV       | Proposed lb/hr | Pass? |
| Acetone         | 1187.11    | 130.58         | 15.5           | Y     |
| Acetophenone    | 49.14      | 5.40           | 11.2           | N     |
| Di(2-           |            |                |                |       |
| ethylhexyl)phth |            |                |                |       |
| alate           | 5          | 0.55           | 0.94           | N     |
| Ethyl Benzene   | 434.19     | 47.76          | 0.24           | Y     |
| Ethylene        |            |                |                |       |
| Glycol          | 100        | 11             | 2.63           | Y     |
| Formaldehyde    | 0.3684     | 0.04           | 0.05           | N     |
| Lead            | 0.05       | 0.0055         | 0.3            | N     |
| Methanol        | 262.08     | 28.82          | 3.0            | Y     |

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| Pollutant              | TLV (mg/m³)      | PAER (lb/hr) = 0.11*TLV | Proposed lb/hr | Pass? |
|------------------------|------------------|-------------------------|----------------|-------|
| Methylene<br>Chloride  | 173.68           | 19.10                   | 5.5            | Y     |
| Methyl Ethyl<br>Ketone | 589.77           | 64.87                   | 7.0            | Y     |
| Methyl<br>Isobutyl     |                  |                         |                |       |
| Ketone<br>Toluene      | 204.82<br>188.40 | 22.53<br>20.72          | 5.9<br>9.4     | Y     |
| Xylene                 | 434.19           | 47.76                   | 0.86           | Y     |

## **2nd Tier Screening (PAIL)**

ISCST3 air dispersion modeling was performed on the estimated hourly emissions from the following sources, in order to predict ambient concentrations beyond the property boundary. The Presumptively Acceptable Impact Level (PAIL) for each compound was deemed by the Department to be one one-hundredth of the Threshold Limit Value, as listed by the ACGIH.

| Pollutant                | (PAIL, $μg/m^3$ ) = 1/100 of<br>Threshold Limit Value | Modeled Concentration (µg/m³) | Pass? |
|--------------------------|---|-------------------------------|-------|
| Acetophenone             | 491.4   | 184.5                         | Y     |
| Di(2-<br>ethylhexyl)phth |   |                               |       |
| alate                    | 50  | 15.6                          | Y     |
|                          | 2.6   | 0.05                          | ***   |
| Formaldehdye             | 3.6   | 0.05                          | Y     |
| Lead                     | 0.5   | 0.325                         | Y     |

## 12. CALCULATIONS:

|       |                        |  |           | Control   |                    |
|-------|------------------------|--|-----------|-----------|--------------------|
|       |                        |  | Control   | Equipme   |                    |
|       | <b>Emission Factor</b> |  | Equipmen  | nt        | Comments (Emission |
|       | Source (AP-42,         | Emission Factor and units (lbs/ton,            | t Type    | Efficienc | factor controlled/ |
| SN    | Testing, etc)          | lbs/hr, etc)                                   | ( if any) | У         | uncontrolled, etc) |
| SN-01 | AP-42, Natural         | PM/PM <sub>10</sub> : 7.6 lb/MMft <sup>3</sup> | N/A       | N/A       | 6.5 MMBTU/hr       |
|       | Gas Combustion         | $SO_2$ : 0.6 lb/MMft <sup>3</sup>              |           |           |                    |
|       | Factors                | VOC: 5.5 lb/MMft <sup>3</sup>                  |           |           |                    |

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| SN-02 | Emission Factor<br>Source (AP-42,<br>Testing, etc)  AP-42, Natural<br>Gas Combustion | Emission Factor and units (lbs/ton, lbs/hr, etc)  CO: 84 lb/MMft <sup>3</sup> NO <sub>X</sub> : 100 lb/MMft <sup>3</sup> PM/PM <sub>10</sub> : 7.6 lb/MMft <sup>3</sup> SO <sub>2</sub> : 0.6 lb/MMft <sup>3</sup> | Control<br>Equipmen<br>t Type<br>( if any) | Control Equipme nt Efficienc y | Comments (Emission factor controlled/ uncontrolled, etc)  6.5 MMBTU/hr   |
|-------|--|--|--|--------------------------------|--|
| SN-03 | Factors  AP-42, Natural  | VOC: 5.5 lb/MMft <sup>3</sup> CO: 84 lb/MMft <sup>3</sup> NO <sub>X</sub> : 100 lb/MMft <sup>3</sup> PM/PM <sub>10</sub> : 7.6 lb/MMft <sup>3</sup>  | N/A  | N/A                            | 4.2 MMBTU/hr   |
|       | Gas Combustion<br>Factors  | SO <sub>2</sub> : 0.6 lb/MMft <sup>3</sup><br>VOC: 5.5 lb/MMft <sup>3</sup><br>CO: 84 lb/MMft <sup>3</sup><br>NO <sub>X</sub> : 100 lb/MMft <sup>3</sup>   | IV/A                                       |                                | 4.2 WINTE T O/III  |
| SN-04 | AP-42, Natural<br>Gas Combustion<br>Factors  | PM/PM <sub>10</sub> : 7.6 lb/MMft <sup>3</sup><br>SO <sub>2</sub> : 0.6 lb/MMft <sup>3</sup><br>VOC: 5.5 lb/MMft <sup>3</sup><br>CO: 84 lb/MMft <sup>3</sup><br>NO <sub>X</sub> : 100 lb/MMft <sup>3</sup>         | N/A  | N/A                            | 4.2 MMBTU/hr   |
| SN-05 | Thermoplastic<br>extrusion factor<br>from similar<br>facility                        | 0.191 lb VOC/ton   | N/A  | N/A                            | Hourly emission rates based on 1050 lb compound/hr. Annual emission rates based on 2.5 MM lb/yr.   |
| SN-06 | Material Balance,<br>MSDS  | VOC: Chemlok 6.903 lb/gal Toluene Extender 7.18 lb/gal HAPs: Ethyl Benzene 1.534 lb/gal Toluene 7.18 lb/gal Xylene 5.369 lb/gal  | N/A  | N/A                            | Annual emission rates based on 600 gal/yr Chemlock and 2220 gal/yr toluene extender. Hourly emission rates based on 0.1 gal/hr Chemlock and 0.5 gal/hr toluene extender. |

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|        |                 |   | I         | Control   |                       |
|--------|-----------------|---|-----------|-----------|-----------------------|
|        |                 |   | Control   | Equipme   |                       |
|        | Emission Factor |   | Equipmen  | nt        | Comments (Emission    |
|        | Source (AP-42,  | Emission Factor and units (lbs/ton,       | t Type    | Efficienc | factor controlled/    |
| SN     | Testing, etc)   | lbs/hr, etc)                              | ( if any) | V         | uncontrolled, etc)    |
| SN-07  | MSDS, Rubber    | 1.0 wt% acetophenone (from the            | N/A       | N/A       | Hourly emission       |
| 311-07 | Tire            | decomposition of cumene                   | IVA       | IV/A      | rates based on 371 lb |
|        | Manufacturing   | peroxide)                                 |           |           | compound/hr and 3     |
|        | Industry        | peroxide)                                 |           |           | lines of              |
|        | maustry         | 0.002 lb VOC/25.3 lb                      |           |           | acetophenone-         |
|        |                 | 0.002 10 VOC/23.3 10                      |           |           | producing             |
|        |                 | Adhesive (DOP):                           |           |           | compounds. Total      |
|        |                 | 8.2 lb/gal VOC                            |           |           | maximum extrusion     |
|        |                 | 8.2 lb/gal di(2-ethylhexyl)phthalate      |           |           | rate of 17,500 lb     |
|        |                 | 6.2 10/gai di(2-etily iliexy1)piitiiaiate |           |           | compound/hr. Hourly   |
|        |                 |   |           |           | emission rate based   |
|        |                 |   |           |           | on 0.94 lb/hr         |
|        |                 |   |           |           | Adhesive (DOP).       |
|        |                 |   |           |           | Annual emission       |
|        |                 |   |           |           | rates based on 1.5    |
|        |                 |   |           |           | MM lb/yr of           |
|        |                 |   |           |           | acetophenone-         |
|        |                 |   |           |           | producing             |
|        |                 |   |           |           | compounds and 12      |
|        |                 |   |           |           | MM lb/yr of total     |
|        |                 |   |           |           | thermoset             |
|        |                 |   |           |           | compounds. Annual     |
|        |                 |   |           |           | emission rate based   |
|        |                 |   |           |           | on 360 gal/yr         |
|        |                 |   |           |           | Adhesive (DOP).       |

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| SN    | Emission Factor<br>Source (AP-42,<br>Testing, etc) | Emission Factor and units (lbs/ton, lbs/hr, etc)  | Control Equipmen t Type ( if any) | Control Equipme nt Efficienc | Comments (Emission factor controlled/ uncontrolled, etc)   |
|-------|--|---|-----------------------------------|------------------------------|--|
| SN-08 | Material Balance,<br>MSDS                          | VOC M-1055: 7.5 lb/gal Lacquer (Telecom Cable): 25 wt% Varsol: 6.34 lb/gal Ink/Extender: 9.84 lb/gal HAPs Methylene Chloride Solvent: Methylene Chloride 11.0 lb/gal M-1055: MIBK 3.75 lb/gal Lacquer (Telecom Cable): Methanol 20 wt% Toluene 5 wt% Varsol: Ethyl benzene 0.04 lb/gal Xylene 0.32 lb/gal Acetone Acetone: 6.7 lb/gal Lacquer (Telecom Cable): 25 wt% Ink/Extender: MEK 6.9 lb/gal Acetone 4.02 lb/gal MIBK 3.75 lb/gal Toluene 4.97 lb/gal | N/A                               | N/A                          | Hourly emission rates based on: 0.5 gal/hr Methylene Chloride, 0.5 gal/hr M-1055, 1 gal/hr acetone, 15 lb/hr Lacquer (Telecom Cable), 1 gal/hr Varsol, and 1.0 gal/hr ink/extender. Annual emission rates based on: 360 gal/yr Methylene Chloride, 360 gal/yr M-1055, 3000 gal/yr Acetone, 60000 lb/yr Lacquer (Telecom Cable), 2000 gal/yr Varsol, and 1,000 gal/yr ink/extender. |
| SN-09 | MSDS   | Quickkote: 15 wt% VOC   | Baghouse                          | 97%                          | Hourly VOC emission rate based on 4.8 lb/hr Quickkote. Hourly lead emission rate based on a worst case of 2000 hr/yr. Annual emission rates based on 18,000 lb/yr Quickkote and 15,000 lb/yr lead dust produced.   |

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|       |                   |                                     | Control   | Control<br>Equipme |                       |
|-------|-------------------|-------------------------------------|-----------|--------------------|-----------------------|
|       | Emission Factor   |                                     | Equipmen  | nt                 | Comments (Emission    |
|       | Source (AP-42,    | Emission Factor and units (lbs/ton, | t Type    | Efficienc          | factor controlled/    |
| SN    | Testing, etc)     | lbs/hr, etc)                        | ( if any) | у                  | uncontrolled, etc)    |
| SN-10 | Material Balance, | Tape:                               | N/A       | N/A                | Hourly emission       |
|       | MSDS              | VOC 4% by weight                    |           |                    | rates based on 250    |
|       |                   | Formaldehyde 0.0061% by weight      |           |                    | lb/hr tape and 75     |
|       |                   |                                     |           |                    | lb/hr release agent.  |
|       |                   | Release Agent:                      |           |                    | Annual emission       |
|       |                   | VOC 18% by weight                   |           |                    | rates based 42,000    |
|       |                   | Ethylene Glycol 3.5% by weight      |           |                    | lb/yr tape and 12,000 |
|       |                   | Formaldehyde 0.04% by weight        |           |                    | lb/yr release agent.  |

## 13. TESTING REQUIREMENTS:

This permit requires stack testing of the following sources.

|                |           | Test   | Test     |                                    |  |
|----------------|-----------|--------|----------|------------------------------------|--|
| SN(s)          | Pollutant | Method | Interval | Justification For Test Requirement |  |
| Not Applicable |           |        |          |                                    |  |

### 14. MONITORING OR CEMS

The permittee must monitor the following parameters with CEMs or other monitoring equipment (temperature, pressure differential, etc), frequency of recording and the need for records included in any annual, semiannual or other reports.

|                | Parameter or    |                            |            |         |  |
|----------------|-----------------|----------------------------|------------|---------|--|
|                | Pollutant to be | Method of Monitoring (CEM, |            | Report  |  |
| SN             | Monitored       | Pressure Gauge, etc)       | Frequency* | (Y/N)** |  |
| Not Applicable |                 |                            |            |         |  |

<sup>\*</sup> Indicate frequency of recording required for the parameter (Continuously, hourly, daily, etc.)

<sup>\*\*</sup> Indicates whether the parameter needs to be included in reports.

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# 15. RECORD KEEPING REQUIREMENTS

The following are items (such as throughput, fuel usage, VOC content of coating, etc) that must be tracked and recorded, frequency of recording and whether records are needed to be included in any annual, semiannual or other reports.

| CNI   | Decembed Items        | Limit (on antablished in mammit)       | Frequency * | Report  |
|-------|-----------------------|--|-------------|---------|
| SN    | Recorded Item         | Limit (as established in permit)       | -,-         | (Y/N)** |
| ~~~~  | Thermoplastic         |  |             |         |
| SN-05 | Compound Usage        | 2,500,000 pounds/year                  | Monthly     | N       |
| SN-06 |                       |  |             |         |
| and   |                       |  |             |         |
| SN-08 | VOC Emissions         | 30.4 tons/year                         | Monthly     | N       |
|       | MSDS (or equivalent)  | Chemlok: 6.903 lb/gal                  |             |         |
| SN-06 | for VOC Content       | Toluene Extender: 7.18 lb/gal          | As Needed   | N       |
|       |                       | Chemlok:                               |             |         |
|       |                       | Ethyl Benzene 1.534 lb/gal             |             |         |
|       |                       | Xylene 5.369 lb/gal                    |             |         |
|       | MSDS (or equivalent)  | Toluene Extender:                      |             |         |
| SN-06 | for Pollutant Content | Toluene 7.18 lb/gal                    | As Needed   | N       |
|       | Thermoset Compound    |  |             |         |
| SN-07 | Usage                 | 12,000,000 pounds/year                 | Monthly     | N       |
|       | Acetophenone-         |  |             |         |
|       | producing Thermoset   |  |             |         |
| SN-07 | Compound Usage        | 1,500,000 pounds/year                  | Monthly     | N       |
|       | Adhesive (DOP)        |  |             |         |
| SN-07 | Usage                 | 360 gallons/year                       | Monthly     | N       |
|       |                       | 1.0 wt% acetophenone (from the         |             |         |
|       |                       | decomposition of cumene peroxide)      |             |         |
|       |                       | Adhesive (DOP): 8.2 lb VOC/gal         |             |         |
| SN-07 | MSDS (or equivalent)  | 8.2 lb di(2-ethylhexyl)phthalate/gal   | As Needed   | N       |
|       |                       | Acetone 3,000 gal/yr                   |             |         |
|       |                       | Lacquer (Telecom Cable) 60,000 lb/yr   |             |         |
| SN-08 | Material Throughput   | Ink/Extender 1,000 gal/yr              | Monthly     | N       |
|       |                       | M-1055: 7.5 lb/gal                     |             |         |
|       |                       | Lacquer (Telecom Cable): 25% by weight |             |         |
|       | MSDS (or equivalent)  | Varsol: 6.34 lb/gal                    |             |         |
| SN-08 | for VOC Content       | Ink/Extender: 9.84 lb/gal              | As Needed   | N       |

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|        |                       |   | Frequency | Report  |
|--------|-----------------------|---|-----------|---------|
| SN     | Recorded Item         | Limit (as established in permit)        | *         | (Y/N)** |
|        |                       | Methylene Chloride Solvent:             |           |         |
|        |                       | Methylene Chloride 11.0 lb/gal          |           |         |
|        |                       | M-1055 Solvent:                         |           |         |
|        |                       | MIBK 3.75 lb/gal                        |           |         |
|        |                       | Lacquer (Telecom Cable):                |           |         |
|        |                       | Acetone 25 wt%                          |           |         |
|        |                       | Methanol 20 wt%                         |           |         |
|        |                       | Toluene 5 wt%                           |           |         |
|        |                       | Varsol:                                 |           |         |
|        |                       | Ethyl benzene: 0.04 lb/gal              |           |         |
|        |                       | Xylene 0.32 lb/gal                      |           |         |
|        |                       | Ink/Extender:                           |           |         |
|        |                       | Acetone 4.02 lb/gal                     |           |         |
|        |                       | Methyl Ethyl Ketone 6.9 lb/gal          |           |         |
|        | MSDS (or equivalent)  | MIBK 3.75 lb/gal                        |           |         |
| SN-08  | for Pollutant Content | Toluene 4.97 lb/gal                     | As Needed | N       |
| SN-09  | VOC Emissions         | 1.4 tons/year                           | Monthly   | N       |
|        | MSDS (or equivalent)  |   |           |         |
| SN-09  | for VOC Content       | Quickkote Lead Release Agent: 15% by wt | As Needed | N       |
| SN-09  | Material Throughput   | Lead Dust Produced 15,000 pounds/year   | Monthly   | N       |
|        | Baghouse              |   |           |         |
|        | Maintenance           |   |           |         |
| SN-09  | Inspection Log        | N/A                                     | Weekly    | N       |
|        |                       | Tape: 42,000 pounds/year                |           |         |
| SN-10  | Material Throughput   | Release Agent: 12,000 pounds/year       | Monthly   | N       |
|        | MSDS (or equivalent)  | Tape: 4% by weight                      |           |         |
| SN-10  | for VOC Content       | Release Agent: 18% by weight            | As Needed | N       |
|        |                       | Tape:                                   |           |         |
|        |                       | Formaldehyde 0.0061% by weight          |           |         |
|        |                       |   |           |         |
|        | Naba (                | Release Agent:                          |           |         |
| CNI 10 | MSDS (or equivalent)  | Ethylene Glycol 3.5% by weight          | A NT 1 1  | N.T.    |
| SN-10  | for Pollutant Content | Formaldehdye 0.04% by weight            | As Needed | N       |
| Plant  | HADE ' '              | 9.5 tons/year single HAP                | 3.6 .11   | ) T     |
| wide   | HAP Emissions         | 23.75 tons/year total HAPs              | Monthly   | N       |

<sup>\*</sup> Indicates whether the item needs to be included in reports

\*\* Indicates whether the item needs to be included in reports

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| SN SN-01 through | Opacity % 5% | Justification (NSPS limit, Dept. Guidance, etc) Department Guidance | Compliance Mechanism (daily observation, weekly, control equipment operation, etc)  Natural Gas Combustion |
|------------------|--------------|---|--|
| SN-04            |              |   | 001110 43 12 11  |
| SN-05            | 5%           | Department Guidance   |  |
| SN-09            | 5%           | Department Guidance   | Baghouse Operation   |

## 17. DELETED CONDITIONS:

The previous permit contained the following deleted Specific Conditions.

| Former<br>SC   | Justification for removal |  |  |
|----------------|---------------------------|--|--|
| Not Applicable |                           |  |  |

# 18. VOIDED, SUPERSEDED OR SUBSUMED PERMITS

List all active permits voided/superseded/subsumed by issuance of this permit for this facility.

| Permit # |  |
|----------|--|
| 511-AR-5 |  |

# 19. CONCURRENCE BY:

| The following | supervisor concur | s with the | permitting d | ecision: |
|---------------|-------------------|------------|--------------|----------|
|               |                   |            |              |          |

Phillip Murphy, P.E.