# LA-UR-12-20087

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| Title:        | Title V Semi-Annual Emissions Report for Permit P100R1 July 1, 2017<br>– December 31, 2011 | 1 |
|---------------|--|---|
| Author(s):    | Whetham, Walter  |   |
| Intended for: | NMED<br>Report<br>Air quality  |   |

Air quality Reading Room **Title V Compliance** 



Disclaimer:

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# Title V Semi-Annual Emissions Report for Permit P100R1 July 1, 2011 - December 31, 2011

#### **Emission Reporting Requirements**

#### 4.0 Reporting

Conditions of 4.0 are pursuant to 20.2.70.302.E NMAC.

- 4.1 Reports of actual emissions from permitted sources in Section 2.0 shall be submitted on a 6 month basis. Reports shall not include emissions from insignificant activities. Emission estimates of criteria pollutants NOx, CO, SO2, PM and VOCs shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. The reports shall include a comparison of actual emissions that occurred during the reporting period with the facility-wide allowable emission limits specified in Section 2.11 of this permit.
- 4.3 The report required by Condition 4.1 shall be submitted within 90 days from the end of the reporting period. The semiannual report required by Condition 4.2 shall be submitted within 45 days from the end of the reporting period. The reporting periods are January 1<sup>st</sup> to June 30<sup>th</sup> and July 1<sup>st</sup> to December 31<sup>st</sup>. This condition is pursuant to 20.2.70.302.E.1 NMAC.

# **Specific Emissions Reports:**

| Emission   |   | Allowa   | ble Emission Li  | mits  |   |                                      |
|--|---|--|--|---|---|--------------------------------------|
| Unit<br>TA-60-BDM  | NO <sub>x</sub><br>95.0 tpy   | SO <sub>2</sub>  | PM<br>0.04 gr/dscf<br>33.8 lbs/hr  | CO<br>95.0 tpy  | 95.0 tpy  | -                                    |
|  | 55.0 tpy  | 5010 (р.)  | 95.0 tpy   | 5510 tpy  | 55.0 tpj  |                                      |
| porting Requ   |   |  |  | (1)   |   |                                      |
| .6.1 Reports shall   | be submitted in acc   | cordance with c  | onditions 4.1 and  | 4.2.(1)   |   |                                      |
| Reports shall r<br>NOx, CO, SO<br>include fugitiv  | ual emissions from<br>not include emissio<br>2, PM and VOCs sl<br>re emissions. The re-<br>period with the faci   | ns from insignif<br>nall not include<br>eports shall incl  | ficant activities. I<br>fugitive emission<br>ude a comparisor              | Emission estimate<br>s. Emission estin<br>1 of actual emission  | es of criteria j<br>nates of HAP<br>ons that occu | oollutants<br>s shall<br>rred during |
| Condition 4.2 refers   | to submitting a Semi  | -Annual Monitori   | ing report which L   | ANL submitted on  | February 9, 20                                    | 12, Tracking                         |
|  |   |  |  |   |   |                                      |
| s this reporting rec   | quirement been met  | during this rep  | orting period with   | n a separate repor  | ting submitta                                     | 1? Answer                            |
| s this reporting rec<br>s or No below.   | uirement been met   | during this rep  | orting period with   | a separate repor  | ting submitta                                     | l? Answer                            |
| s or No below.   | -   |  | orting period with   |   |   | 1? Answer                            |
| s or No below.   | Date report sub   | mitted:  |  | Tracking Num  | iber:   | l? Answer                            |
| s or No below.           Yes           No  | -   | mitted:  |  | Tracking Num  | iber:   | 1? Answer                            |
| s or No below.           Yes           No  | Date report sub   | mitted:<br>dentify any sup   |  | Tracking Num  | iber:   | l? Answer                            |
| s or No below.           Yes           No         Provide           mments:  | Date report sub<br>e comments and ic<br>January - June  | mitted:  | porting docume   | Tracking Num<br>ntation as an att<br>Permit Limit   | iber:<br>tachment.                                | l? Answer                            |
| s or No below.           Yes           No  | Date report sub   | mitted:<br>dentify any sup<br>July -<br>December<br>Emissions  | porting docume<br>Annual<br>Emissions                                      | Tracking Num  | aber:<br>tachment.<br>ts<br>.2)                   | l? Answer                            |
| S or No below.         Yes         No       Provide         mments:         Asphalt Plant         TA-60-BDM        | Date report sub<br>e comments and id<br>January - June<br>Emissions<br>(tons)   | mitted:<br>dentify any sup<br>July -<br>December<br>Emissions<br>(tons)                                    | Annual<br>Emissions<br>(tons)  | Tracking Num<br>ntation as an att<br>Permit Limit<br>(Condition 2.1<br>(tons per year   | aber:<br>tachment.<br>ts<br>.2)                   | l? Answer                            |
| s or No below.           Yes           No         Provide           mments:         Asphalt Plant                  | Date report sub<br>e comments and ic<br>January - June<br>Emissions   | mitted:<br>dentify any sup<br>July -<br>December<br>Emissions  | porting docume<br>Annual<br>Emissions                                      | Tracking Num<br>ntation as an att<br>Permit Limit<br>(Condition 2.1   | aber:<br>tachment.<br>ts<br>.2)                   | l? Answer                            |
| S or No below.  Yes No Provide mments:  Asphalt Plant TA-60-BDM NOx  | Date report sub<br>e comments and id<br>January - June<br>Emissions<br>(tons)<br>0.012  | mitted:<br>dentify any sup<br>July -<br>December<br>Emissions<br>(tons)<br>0.021                           | Annual<br>Emissions<br>(tons)<br>0.033                                     | Tracking Num<br>ntation as an att<br>Permit Limit<br>(Condition 2.1<br>(tons per year<br>95.0   | aber:<br>tachment.<br>ts<br>.2)                   | l? Answer                            |
| S or No below.  Yes No Provide mments:  Asphalt Plant TA-60-BDM NOx SO2  | Date report sub<br>e comments and id<br>January - June<br>Emissions<br>(tons)<br>0.012<br>0.001   | mitted:<br>dentify any sup<br>July -<br>December<br>Emissions<br>(tons)<br>0.021<br>0.002                  | Annual<br>Emissions<br>(tons)<br>0.033<br>0.003                            | Tracking Num<br>ntation as an att<br>Permit Limit<br>(Condition 2.1<br>(tons per yea<br>95.0<br>50.0  | aber:<br>tachment.<br>ts<br>.2)                   | l? Answer                            |
| S or No below.<br>Yes No Provide mments:<br>Asphalt Plant TA-60-BDM<br>NOx<br>SO <sub>2</sub><br>PM                | Date report sub<br>e comments and id<br>January - June<br>Emissions<br>(tons)<br>0.012<br>0.001<br>0.007  | mitted:<br>dentify any sup<br>December<br>Emissions<br>(tons)<br>0.021<br>0.002<br>0.013                   | Annual<br>Emissions<br>(tons)<br>0.033<br>0.003<br>0.020                   | Tracking Num<br>ntation as an att<br>Permit Limit<br>(Condition 2.1<br>(tons per yea<br>95.0<br>50.0<br>95.0<br>95.0<br>95.0<br>95.0<br>95.0          | achment.  | l? Answer                            |
| S or No below.<br>Yes<br>No Provide<br>mments:<br>Asphalt Plant<br>TA-60-BDM<br>NOx<br>SO <sub>2</sub><br>PM<br>CO | Date report sub<br>e comments and id<br>January - June<br>Emissions<br>(tons)<br>0.012<br>0.001<br>0.007<br>0.43  | mitted:<br>dentify any sup<br>July -<br>December<br>Emissions<br>(tons)<br>0.021<br>0.002<br>0.013<br>0.74 | Annual<br>Emissions<br>(tons)<br>0.003<br>0.020<br>1.171                   | Tracking Num<br>ntation as an att<br>Permit Limit<br>(Condition 2.1<br>(tons per yea<br>95.0<br>50.0<br>95.0<br>95.0<br>95.0                          | achment.  | l? Answer                            |
| S or No below.  Yes  No Provide mments:  Asphalt Plant TA-60-BDM NOx SO2 PM CO VOC                                 | Date report sub         e comments and id         January - June         Emissions<br>(tons)         0.012         0.001         0.007         0.43         0.002 | mitted:<br>July -<br>December<br>Emissions<br>(tons)<br>0.021<br>0.002<br>0.013<br>0.74<br>0.003           | Annual<br>Emissions<br>(tons)<br>0.033<br>0.003<br>0.020<br>1.171<br>0.005 | Tracking Num<br>ntation as an att<br>Permit Limit<br>(Condition 2.1<br>(tons per year<br>95.0<br>95.0<br>95.0<br>95.0<br>95.0<br>95.0<br>95.0<br>95.0 | achment.  | l? Answer                            |
| S or No below.  Yes  No Provide mments:  Asphalt Plant TA-60-BDM NOx SO2 PM CO VOC                                 | Date report sub         e comments and id         January - June         Emissions<br>(tons)         0.012         0.001         0.007         0.43         0.002 | mitted:<br>July -<br>December<br>Emissions<br>(tons)<br>0.021<br>0.002<br>0.013<br>0.74<br>0.003           | Annual<br>Emissions<br>(tons)<br>0.033<br>0.003<br>0.020<br>1.171<br>0.005 | Tracking Num<br>ntation as an att<br>Permit Limit<br>(Condition 2.1<br>(tons per year<br>95.0<br>95.0<br>95.0<br>95.0<br>95.0<br>95.0<br>95.0<br>95.0 | achment.  | l? Answer                            |
| S or No below.  Yes  No Provide mments:  Asphalt Plant TA-60-BDM NOx SO2 PM CO VOC                                 | Date report sub         e comments and id         January - June         Emissions<br>(tons)         0.012         0.001         0.007         0.43         0.002 | mitted:<br>July -<br>December<br>Emissions<br>(tons)<br>0.021<br>0.002<br>0.013<br>0.74<br>0.003           | Annual<br>Emissions<br>(tons)<br>0.033<br>0.003<br>0.020<br>1.171<br>0.005 | Tracking Num<br>ntation as an att<br>Permit Limit<br>(Condition 2.1<br>(tons per year<br>95.0<br>95.0<br>95.0<br>95.0<br>95.0<br>95.0<br>95.0<br>95.0 | achment.  | l? Answer                            |
| S or No below.  Yes  No Provide mments:  Asphalt Plant TA-60-BDM NOx SO2 PM CO VOC                                 | Date report sub         e comments and id         January - June         Emissions<br>(tons)         0.012         0.001         0.007         0.43         0.002 | mitted:<br>July -<br>December<br>Emissions<br>(tons)<br>0.021<br>0.002<br>0.013<br>0.74<br>0.003           | Annual<br>Emissions<br>(tons)<br>0.033<br>0.003<br>0.020<br>1.171<br>0.005 | Tracking Num<br>ntation as an att<br>Permit Limit<br>(Condition 2.1<br>(tons per year<br>95.0<br>95.0<br>95.0<br>95.0<br>95.0<br>95.0<br>95.0<br>95.0 | achment.  | l? Answer                            |
| S or No below.  Yes  No Provide mments:  Asphalt Plant TA-60-BDM NOx SO2 PM CO VOC                                 | Date report sub         e comments and id         January - June         Emissions<br>(tons)         0.012         0.001         0.007         0.43         0.002 | mitted:<br>July -<br>December<br>Emissions<br>(tons)<br>0.021<br>0.002<br>0.013<br>0.74<br>0.003           | Annual<br>Emissions<br>(tons)<br>0.033<br>0.003<br>0.020<br>1.171<br>0.005 | Tracking Num<br>ntation as an att<br>Permit Limit<br>(Condition 2.1<br>(tons per year<br>95.0<br>95.0<br>95.0<br>95.0<br>95.0<br>95.0<br>95.0<br>95.0 | achment.  | l? Answer                            |

#### 2.2 Beryllium Activities

#### 2.2.2 Emission Limits

| Source                                       | Allowable I                | Emission Limits |
|--|----------------------------|-----------------|
|  | Beryllium                  | Aluminum        |
| Sigma Facility<br>TA-3-66                    | 10 gm/24 hr                | Not Applicable  |
| Beryllium Technology<br>Facility<br>TA-3-141 | 0.35 gm/24 hr<br>3.5 gm/yr | Not Applicable  |

| Source                                   | Allowable   | Emission Limits   |
|--|---|---|
|  | Beryllium   | Aluminum  |
| Target Fabrication Facility<br>TA-35-213 | 1.8 x 10 <sup>-04</sup> gm/hr<br>0.36 gm/yr                                     | Not Applicable  |
| Plutonium Facility<br>TA-55-PF4          |   |   |
| Machining Operation                      | 0.12 gm/24 hr<br>2.99 gm/yr   | 0.12 gm/24 hr<br>2.99 gm/yr                                       |
| Foundry Operation                        | $3.49 \ge 10^{-5} \text{ gm}/24 \text{ hr}$<br>$8.73 \ge 10^{-4} \text{ gm/yr}$ | 3.49 x 10 <sup>-5</sup> gm/24 hr<br>8.73 x 10 <sup>-4</sup> gm/yr |

#### **Reporting Requirement**

2.2.6 Reports shall be submitted in accordance with conditions 4.1 and 4.2.<sup>(1)</sup>

4.1 Reports of actual emissions from permitted sources in Section 2.0 shall be submitted on a 6 month basis. Reports shall not include emissions from insignificant activities. Emission estimates of criteria pollutants NOx, CO, SO<sub>2</sub>, PM and VOCs shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. The reports shall include a comparison of actual emissions that occurred during the reporting period with the facility-wide allowable emission limits specified in Section 2.11 of this permit.

<sup>(1)</sup> Condition 4.2 refers to submitting a Semi-Annual Monitoring report which LANL submitted on February 9, 2012, Tracking Number SBR20120003.

Has this reporting requirement been met during this reporting period with a separate reporting submittal? Answer Yes or No below.

 Yes
 Date report submitted:
 Tracking Number:

 X
 No
 Provide comments and identify any supporting documentation as an attachment.

 Comments:
 Continued on the next page

## 2.2 Beryllium Activities - continued

| Comments:  |                         |                             |                                 |                     |                                    |
|--|-------------------------|-----------------------------|---------------------------------|---------------------|------------------------------------|
| Source   | Pollutant               | January - June<br>Emissions | July -<br>December<br>Emissions | Annual<br>Emissions | Permit Limits<br>(Condition 2.2.2) |
| Beryllium Test<br>Facility<br>TA-3-141 <sup>(1)</sup>      | Beryllium<br>(grams)    | < 0.0033                    | < 0.0033                        | < 0.007             | 3.5 gm/yr                          |
| Target Fabrication<br>Facility<br>TA-35-213 <sup>(2)</sup> | Beryllium<br>(grams)    | < 0.00944                   | < 0.009                         | < 0.018             | 0.36 gm/yr                         |
| Plutonium Facility<br>TA-55-PF4                            | Beryllium<br>(grams)    | < 1.495                     | < 1.41                          | < 2.91              | 2.99 gm/yr                         |
| Machining<br>Operation <sup>(3)</sup>                      | Aluminum<br>(grams)     | < 1.495                     | < 1.41                          | < 2.91              | 2.99 gm/yr                         |
| Plutonium Facility<br>TA-55-PF4                            | Beryllium<br>(grams)    | 0                           | 0                               | 0.00                | 8.73 x 10 <sup>-4</sup> gm/yr      |
| Foundry Operation <sup>(4)</sup>                           | Aluminum<br>(grams)     | 0                           | 0                               | 0.00                | 8.73 x 10 <sup>-4</sup> gm/yr      |
| Beryllium Total  | <sup>(5)</sup> (tons) = | < 1.66E-06                  | < 1.57E-06                      | < 3.23E-06          |                                    |
| Aluminum Tota  | al (tons) =             | < 1.65E-06                  | < 1.55E-06                      | < 3.30E-06          |                                    |

Notes: <sup>(1)</sup> Emission values shown for the Beryllium Test Facility are from actual stack emission measurements which are submitted to NMED quarterly. <sup>(2)</sup> Emissions for the Target Fabrication Facility are from initial compliance testing of that source and calculated based on a conservative assumption of 8 hour work days. Log books were checked to verify that work days were much less than 8 hours. <sup>(3)</sup> Emissions for the Plutonium Facility are calculated based on permitted throughputs. Log books were checked to verify that throughputs were much less than permitted values. <sup>(4)</sup> The Plutonium Facility foundry operations did not operate in 2011. <sup>(5)</sup> The Sigma Facility listed in section 2.2 of the permit does not require reporting in the Semi-Annual Emissions Report.

| Source  |  | Allow  | able Emission L   | imits  |  |
|---|--|--|---|--|--|
| All Boilers   | NOx  | CO   | PM or PM <sub>10</sub>  | SO <sub>2</sub>  | VOC  |
| nd Heaters <sup>1</sup>   | (tpy)  | (tpy)  | (tpy)   | (tpy)  | (tpy)  |
|   | 80   | 80   | 50  | 50   | 50   |
| Excludes TA-3-2   | 2 Power Plant a  | ddressed in Co   | ndition 2.9   |  | U  |
| eporting Requi  | irement  |  |   |  |  |
| 3.6.1 Reports shall   | be submitted in a  | ccordance with   | conditions 4.1 and  | 4.2. <sup>(1)</sup>  |  |
| Reports shall n<br>NOx, CO, SO <sub>2</sub> ,<br>include fugitive<br>the reporting po<br>permit.                                      | ot include emission<br>PM and VOCs s<br>e emissions. The reprint with the factor   | ons from insigni<br>hall not include<br>reports shall incl<br>ility-wide allowa  | ficant activities. E<br>fugitive emissions<br>ude a comparison<br>able emission limit                                   | shall be submitted o<br>mission estimates o<br>s. Emission estimate<br>of actual emissions<br>as specified in Sectio                                 | f criteria pollutants<br>s of HAPs shall<br>that occurred durin<br>on 2.11 of this |
|   | submitting a Semi  | i-Annual Monitor   | ing report which LA   | NL submitted on Febr   | ruary 9, 2012, Trackin   |
| umber SBR20120003.  | •  | . 1  |   |  | 1 10 10 1  |
| as this reporting requ  | iirement been me   | et during this rep   | orting period with  | a separate reporting   | g submittal? Answei  |
| es or No below.   |  |  |   |  |  |
|   |  |  |   |  |  |
| Ves   | Data nonant  | mittade  |   | Trooking Number  |  |
| Yes   | Date report sub  | omitted:   |   | Tracking Number  | :  |
|   | •  |  | morting documer   |  |  |
| X No Provide  | •  |  | pporting documer  | Tracking Number  |  |
| X No Provide<br>omments:  | comments and i<br>January -<br>June<br>Emissions   | identify any sur<br>July -<br>December<br>Emissions  | pporting documer<br>Annual<br>Emissions<br>(tons)   |  |  |
| X No Provide<br>mments:<br>pilers and Heaters   | comments and i<br>January -<br>June<br>Emissions<br>(tons)   | dentify any sup<br>July -<br>December<br>Emissions<br>(tons)   | Annual<br>Emissions<br>(tons)   | Permit Limits<br>(Condition 2.3.2)<br>(tons per year)  |  |
| X No Provide<br>mments:<br>pilers and Heaters<br>NOx  | comments and i<br>January -<br>June<br>Emissions<br>(tons)<br>15.01  | dentify any sup<br>July -<br>December<br>Emissions<br>(tons)<br>12.60  | Annual<br>Emissions<br>(tons)<br>27.61  | Permit Limits<br>(Condition 2.3.2)<br>(tons per year)<br>80  |  |
| X No Provide<br>mments:<br>pilers and Heaters<br>NOx<br>SO <sub>2</sub>   | comments and i<br>January -<br>June<br>Emissions<br>(tons)<br>15.01<br>0.09  | dentify any sup<br>July -<br>December<br>Emissions<br>(tons)<br>12.60<br>0.08  | Annual<br>Emissions<br>(tons)<br>27.61<br>0.17  | Permit Limits<br>(Condition 2.3.2)<br>(tons per year)<br>80<br>50  |  |
| X No Provide<br>mments:<br>pilers and Heaters<br>NOx<br>SO <sub>2</sub><br>PM   | comments and i<br>January -<br>June<br>Emissions<br>(tons)<br>15.01<br>0.09<br>1.20  | dentify any sup<br>July -<br>December<br>Emissions<br>(tons)<br>12.60<br>0.08<br>1.00  | Annual<br>Emissions<br>(tons)<br>27.61<br>0.17<br>2.20  | Permit Limits<br>(Condition 2.3.2)<br>(tons per year)<br>80<br>50<br>50  |  |
| X No Provide<br>omments:<br>pilers and Heaters<br>NOx<br>SO <sub>2</sub><br>PM<br>PM-10   | comments and i<br>January -<br>June<br>Emissions<br>(tons)<br>15.01<br>0.09<br>1.20<br>1.20  | dentify any sup<br>July -<br>December<br>Emissions<br>(tons)<br>12.60<br>0.08<br>1.00<br>1.00  | Annual<br>Emissions<br>(tons)<br>27.61<br>0.17<br>2.20<br>2.20  | Permit Limits<br>(Condition 2.3.2)<br>(tons per year)<br>80<br>50<br>50<br>50<br>50  |  |
| X No Provide<br>mments:<br>pilers and Heaters<br>NOx<br>SO <sub>2</sub><br>PM<br>PM-10<br>CO  | comments and i<br>January -<br>June<br>Emissions<br>(tons)<br>15.01<br>0.09<br>1.20<br>1.20<br>1.20<br>12.11   | dentify any sup<br>July -<br>December<br>Emissions<br>(tons)<br>12.60<br>0.08<br>1.00<br>1.00<br>1.00<br>10.23                                       | Annual<br>Emissions<br>(tons)<br>27.61<br>0.17<br>2.20<br>2.20<br>2.20<br>22.34   | Permit Limits<br>(Condition 2.3.2)<br>(tons per year)<br>80<br>50<br>50<br>50<br>50<br>80  |  |
| X No Provide<br>omments:<br>pilers and Heaters<br>NOx<br>SO <sub>2</sub><br>PM<br>PM-10<br>CO<br>VOCs                                 | comments and i<br>January -<br>June<br>Emissions<br>(tons)<br>15.01<br>0.09<br>1.20<br>1.20  | dentify any sup<br>July -<br>December<br>Emissions<br>(tons)<br>12.60<br>0.08<br>1.00<br>1.00<br>1.00<br>10.23<br>0.71                               | Annual<br>Emissions<br>(tons)<br>27.61<br>0.17<br>2.20<br>2.20<br>2.20<br>22.34<br>1.55                                 | Permit Limits<br>(Condition 2.3.2)<br>(tons per year)<br>80<br>50<br>50<br>50<br>50  |  |
| X No Provide<br>mments:<br>pilers and Heaters<br>NOx<br>SO <sub>2</sub><br>PM<br>PM-10<br>CO  | comments and i<br>January -<br>June<br>Emissions<br>(tons)<br>15.01<br>0.09<br>1.20<br>1.20<br>1.20<br>12.11   | dentify any sup<br>July -<br>December<br>Emissions<br>(tons)<br>12.60<br>0.08<br>1.00<br>1.00<br>1.00<br>10.23                                       | Annual<br>Emissions<br>(tons)<br>27.61<br>0.17<br>2.20<br>2.20<br>2.20<br>22.34   | Permit Limits<br>(Condition 2.3.2)<br>(tons per year)<br>80<br>50<br>50<br>50<br>50<br>80  |  |
| X No Provide<br>mments:<br>pilers and Heaters<br>NOx<br>SO <sub>2</sub><br>PM<br>PM-10<br>CO<br>VOCs<br>HAPs<br>te: The emissions sho | comments and i<br>January -<br>June<br>Emissions<br>(tons)<br>15.01<br>0.09<br>1.20<br>1.20<br>1.20<br>1.211<br>0.84<br>0.29<br>wn in this table inc | dentify any sup<br>July -<br>December<br>Emissions<br>(tons)<br>12.60<br>0.08<br>1.00<br>1.00<br>1.00<br>1.02<br>0.71<br>0.24<br>Clude significant a | Annual<br>Emissions<br>(tons)<br>27.61<br>0.17<br>2.20<br>2.20<br>2.20<br>22.34<br>1.55<br>0.53<br>nd insignificant sou | Permit Limits<br>(Condition 2.3.2)<br>(tons per year)<br>80<br>50<br>50<br>50<br>50<br>80<br>50<br>80<br>50<br>No Source Limit<br>rces. This section | nment.   |
| X       No       Provide         omments:   | comments and i<br>January -<br>June<br>Emissions<br>(tons)<br>15.01<br>0.09<br>1.20<br>1.20<br>1.20<br>1.211<br>0.84<br>0.29<br>wn in this table inc | dentify any sup<br>July -<br>December<br>Emissions<br>(tons)<br>12.60<br>0.08<br>1.00<br>1.00<br>1.00<br>1.02<br>0.71<br>0.24<br>Clude significant a | Annual<br>Emissions<br>(tons)<br>27.61<br>0.17<br>2.20<br>2.20<br>2.20<br>22.34<br>1.55<br>0.53<br>nd insignificant sou | Permit Limits<br>(Condition 2.3.2)<br>(tons per year)<br>80<br>50<br>50<br>50<br>50<br>80<br>50<br>80<br>50<br>No Source Limit<br>rces. This section | nment.   |
| X No Provide<br>omments:<br>coilers and Heaters<br>NOx<br>SO <sub>2</sub><br>PM<br>PM-10<br>CO<br>VOCs                                | comments and i<br>January -<br>June<br>Emissions<br>(tons)<br>15.01<br>0.09<br>1.20<br>1.20<br>1.20<br>1.211<br>0.84<br>0.29<br>wn in this table inc | dentify any sup<br>July -<br>December<br>Emissions<br>(tons)<br>12.60<br>0.08<br>1.00<br>1.00<br>1.00<br>1.02<br>0.71<br>0.24<br>Clude significant a | Annual<br>Emissions<br>(tons)<br>27.61<br>0.17<br>2.20<br>2.20<br>2.20<br>22.34<br>1.55<br>0.53<br>nd insignificant sou | Permit Limits<br>(Condition 2.3.2)<br>(tons per year)<br>80<br>50<br>50<br>50<br>50<br>80<br>50<br>80<br>50<br>No Source Limit<br>rces. This section | nment.   |
| X       No       Provide         omments:   | comments and i<br>January -<br>June<br>Emissions<br>(tons)<br>15.01<br>0.09<br>1.20<br>1.20<br>1.20<br>1.211<br>0.84<br>0.29<br>wn in this table inc | dentify any sup<br>July -<br>December<br>Emissions<br>(tons)<br>12.60<br>0.08<br>1.00<br>1.00<br>1.00<br>1.02<br>0.71<br>0.24<br>Clude significant a | Annual<br>Emissions<br>(tons)<br>27.61<br>0.17<br>2.20<br>2.20<br>2.20<br>22.34<br>1.55<br>0.53<br>nd insignificant sou | Permit Limits<br>(Condition 2.3.2)<br>(tons per year)<br>80<br>50<br>50<br>50<br>50<br>80<br>50<br>80<br>50<br>No Source Limit<br>rces. This section | nment.   |
| X       No       Provide         omments:   | comments and i<br>January -<br>June<br>Emissions<br>(tons)<br>15.01<br>0.09<br>1.20<br>1.20<br>1.20<br>1.211<br>0.84<br>0.29<br>wn in this table inc | dentify any sup<br>July -<br>December<br>Emissions<br>(tons)<br>12.60<br>0.08<br>1.00<br>1.00<br>1.00<br>1.02<br>0.71<br>0.24<br>Clude significant a | Annual<br>Emissions<br>(tons)<br>27.61<br>0.17<br>2.20<br>2.20<br>2.20<br>22.34<br>1.55<br>0.53<br>nd insignificant sou | Permit Limits<br>(Condition 2.3.2)<br>(tons per year)<br>80<br>50<br>50<br>50<br>50<br>80<br>50<br>80<br>50<br>No Source Limit<br>rces. This section | nment.   |
| X       No       Provide         omments:   | comments and i<br>January -<br>June<br>Emissions<br>(tons)<br>15.01<br>0.09<br>1.20<br>1.20<br>1.20<br>1.211<br>0.84<br>0.29<br>wn in this table inc | dentify any sup<br>July -<br>December<br>Emissions<br>(tons)<br>12.60<br>0.08<br>1.00<br>1.00<br>1.00<br>1.02<br>0.71<br>0.24<br>Clude significant a | Annual<br>Emissions<br>(tons)<br>27.61<br>0.17<br>2.20<br>2.20<br>2.20<br>22.34<br>1.55<br>0.53<br>nd insignificant sou | Permit Limits<br>(Condition 2.3.2)<br>(tons per year)<br>80<br>50<br>50<br>50<br>50<br>80<br>50<br>80<br>50<br>No Source Limit<br>rces. This section | nment.   |
| X       No       Provide         omments:   | comments and i<br>January -<br>June<br>Emissions<br>(tons)<br>15.01<br>0.09<br>1.20<br>1.20<br>1.20<br>1.211<br>0.84<br>0.29<br>wn in this table inc | dentify any sup<br>July -<br>December<br>Emissions<br>(tons)<br>12.60<br>0.08<br>1.00<br>1.00<br>1.00<br>1.02<br>0.71<br>0.24<br>Clude significant a | Annual<br>Emissions<br>(tons)<br>27.61<br>0.17<br>2.20<br>2.20<br>2.20<br>22.34<br>1.55<br>0.53<br>nd insignificant sou | Permit Limits<br>(Condition 2.3.2)<br>(tons per year)<br>80<br>50<br>50<br>50<br>50<br>80<br>50<br>80<br>50<br>No Source Limit<br>rces. This section | nment.   |
| X       No       Provide         omments:   | comments and i<br>January -<br>June<br>Emissions<br>(tons)<br>15.01<br>0.09<br>1.20<br>1.20<br>1.20<br>1.211<br>0.84<br>0.29<br>wn in this table inc | dentify any sup<br>July -<br>December<br>Emissions<br>(tons)<br>12.60<br>0.08<br>1.00<br>1.00<br>1.00<br>1.02<br>0.71<br>0.24<br>Clude significant a | Annual<br>Emissions<br>(tons)<br>27.61<br>0.17<br>2.20<br>2.20<br>2.20<br>22.34<br>1.55<br>0.53<br>nd insignificant sou | Permit Limits<br>(Condition 2.3.2)<br>(tons per year)<br>80<br>50<br>50<br>50<br>50<br>80<br>50<br>80<br>50<br>No Source Limit<br>rces. This section | nment.   |
| X       No       Provide         omments:   | comments and i<br>January -<br>June<br>Emissions<br>(tons)<br>15.01<br>0.09<br>1.20<br>1.20<br>1.20<br>1.211<br>0.84<br>0.29<br>wn in this table inc | dentify any sup<br>July -<br>December<br>Emissions<br>(tons)<br>12.60<br>0.08<br>1.00<br>1.00<br>1.00<br>1.02<br>0.71<br>0.24<br>Clude significant a | Annual<br>Emissions<br>(tons)<br>27.61<br>0.17<br>2.20<br>2.20<br>2.20<br>22.34<br>1.55<br>0.53<br>nd insignificant sou | Permit Limits<br>(Condition 2.3.2)<br>(tons per year)<br>80<br>50<br>50<br>50<br>50<br>80<br>50<br>80<br>50<br>No Source Limit<br>rces. This section | nment.   |
| X       No       Provide         omments:   | comments and i<br>January -<br>June<br>Emissions<br>(tons)<br>15.01<br>0.09<br>1.20<br>1.20<br>1.20<br>1.211<br>0.84<br>0.29<br>wn in this table inc | dentify any sup<br>July -<br>December<br>Emissions<br>(tons)<br>12.60<br>0.08<br>1.00<br>1.00<br>1.00<br>1.02<br>0.71<br>0.24<br>Clude significant a | Annual<br>Emissions<br>(tons)<br>27.61<br>0.17<br>2.20<br>2.20<br>2.20<br>22.34<br>1.55<br>0.53<br>nd insignificant sou | Permit Limits<br>(Condition 2.3.2)<br>(tons per year)<br>80<br>50<br>50<br>50<br>50<br>80<br>50<br>80<br>50<br>No Source Limit<br>rces. This section | nment.   |
| X       No       Provide         omments:   | comments and i<br>January -<br>June<br>Emissions<br>(tons)<br>15.01<br>0.09<br>1.20<br>1.20<br>1.20<br>1.211<br>0.84<br>0.29<br>wn in this table inc | dentify any sup<br>July -<br>December<br>Emissions<br>(tons)<br>12.60<br>0.08<br>1.00<br>1.00<br>1.00<br>1.02<br>0.71<br>0.24<br>Clude significant a | Annual<br>Emissions<br>(tons)<br>27.61<br>0.17<br>2.20<br>2.20<br>2.20<br>22.34<br>1.55<br>0.53<br>nd insignificant sou | Permit Limits<br>(Condition 2.3.2)<br>(tons per year)<br>80<br>50<br>50<br>50<br>50<br>80<br>50<br>80<br>50<br>No Source Limit<br>rces. This section | nment.   |
| X       No       Provide         omments:   | comments and i<br>January -<br>June<br>Emissions<br>(tons)<br>15.01<br>0.09<br>1.20<br>1.20<br>1.20<br>1.211<br>0.84<br>0.29<br>wn in this table inc | dentify any sup<br>July -<br>December<br>Emissions<br>(tons)<br>12.60<br>0.08<br>1.00<br>1.00<br>1.00<br>1.02<br>0.71<br>0.24<br>Clude significant a | Annual<br>Emissions<br>(tons)<br>27.61<br>0.17<br>2.20<br>2.20<br>2.20<br>22.34<br>1.55<br>0.53<br>nd insignificant sou | Permit Limits<br>(Condition 2.3.2)<br>(tons per year)<br>80<br>50<br>50<br>50<br>50<br>80<br>50<br>80<br>50<br>No Source Limit<br>rces. This section | nment.   |
| X       No       Provide         omments:   | comments and i<br>January -<br>June<br>Emissions<br>(tons)<br>15.01<br>0.09<br>1.20<br>1.20<br>1.20<br>1.211<br>0.84<br>0.29<br>wn in this table inc | dentify any sup<br>July -<br>December<br>Emissions<br>(tons)<br>12.60<br>0.08<br>1.00<br>1.00<br>1.00<br>1.02<br>0.71<br>0.24<br>Clude significant a | Annual<br>Emissions<br>(tons)<br>27.61<br>0.17<br>2.20<br>2.20<br>2.20<br>22.34<br>1.55<br>0.53<br>nd insignificant sou | Permit Limits<br>(Condition 2.3.2)<br>(tons per year)<br>80<br>50<br>50<br>50<br>50<br>80<br>50<br>80<br>50<br>No Source Limit<br>rces. This section | nment.   |

#### **2.4 Carpenter Shops**

| 2.4.2 Emission Limits |
|-----------------------|
|-----------------------|

| Source    | Allowable Emission Limits |
|-----------|---------------------------|
| source    | PM <sub>10</sub> (tp y)   |
| TA-15-563 | 2.81                      |
| TA-3-38   | 3.07                      |

### **Reporting Requirement**

2.4.6.1 Reports shall be submitted in accordance with conditions 4.1 and  $4.2^{(1)}$ 

Date report submitted:

4.1 Reports of actual emissions from permitted sources in Section 2.0 shall be submitted on a 6 month basis. Reports shall not include emissions from insignificant activities. Emission estimates of criteria pollutants NOx, CO, SO<sub>2</sub>, PM and VOCs shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. The reports shall include a comparison of actual emissions that occurred during the reporting period with the facility-wide allowable emission limits specified in Section 2.11 of this permit.

<sup>(1)</sup> Condition 4.2 refers to submitting a Semi-Annual Monitoring report which LANL submitted on February 9, 2012, Tracking Number SBR20120003.

Has this reporting requirement been met during this reporting period with a separate reporting submittal? Answer Yes or No below.

Yes

**Tracking Number:** 

# **X** No Provide comments and identify any supporting documentation as an attachment.

| Comments: |                  |                                       |   |                               |   |
|-----------|------------------|---------------------------------------|---|-------------------------------|---|
| Shop      | Pollutant        | January - June<br>Emissions<br>(tons) | July -<br>December<br>Emissions<br>(tons) | Annual<br>Emissions<br>(tons) | Permit Limits<br>(Condition 2.4.2)<br>(tons per year) |
| TA-3-38   | PM <sub>10</sub> | 0.013                                 | 0.035                                     | 0.048                         | 3.07  |
| TA-15-563 | PM <sub>10</sub> | 0.009                                 | 0.009                                     | 0.018                         | 2.81  |

| 2 | 2.5 Chemical Usage  |   |   |  |  |
|---|---|---|---|--|--|
| 2 | 2.5.2 Emission Limits   |   |   |  |  |
|   | 2.5.3.1 The contribution of VOC he exceedence of the corresponding  |   |   |  | all not cause  |
|   | 200 tons per year of facility-<br>8 tons per year of individual<br>24 tons per year of total faci   | facility-wide H   | AP  |  |  |
| 1 | Reporting Requirement   |   |   |  |  |
|   | 2.5.5.1 Reports shall be submitted in a   | ccordance with co   | nditions 4.1 and 4  | 4.2. <sup>(1)</sup>  |  |
| 4 | 4.1 Reports of actual emissions from<br>Reports shall not include emission<br>NOx, CO, SO <sub>2</sub> , PM and VOCs s<br>include fugitive emissions. The r<br>the reporting period with the fac<br>permit. | ons from insignific<br>hall not include fu<br>reports shall include | cant activities. En<br>gitive emissions.<br>de a comparison c | nission estimates of<br>Emission estimate<br>of actual emissions | f criteria pollutants<br>s of HAPs shall<br>that occurred during |
| N | <sup>1)</sup> Condition 4.2 refers to submitting a Sem<br>Number SBR20120003.<br>Has this reporting requirement been me   |   |   |  |  |
|   | Yes or No below.  | a during this repor   | ting period with a  | a separate reporting   | submittar: Answer  |
|   |   |   |   |  |  |
|   | Yes Date report sub   | omitiea:  |   | Tracking Number  | :  |
|   | X No Provide comments and i   | dentify any supp  | orting document   | tation as an attach  | nment.   |
| ( | Comments:   |   |   |  |  |
|   | Chemical Usage<br>LANL-FW-CHEM  | January - June<br>Emissions<br>(tons)                               | July -<br>December<br>Emissions<br>(tons)                     | Annual<br>Emissions<br>(tons)                                    | Permit Limits<br>(Condition 2.5.3.1)                             |
| F | VOCs  | 3.4   | 3.0   | 6.4  |  |
|   | HAPs  | 1.0   | 1.6   | 2.6  |  |
|   | Highest Individual HAP for the<br>first 6 months of 2011<br>(Methanol)  | 0.16  | 0.20  | 0.36   | Source limits refer<br>to facility-wide<br>limits.               |
|   | Highest Individual HAP for the<br>second 6 months of 2011<br>(Hexane)   | 0.12  | 0.46  | 0.58   |  |
| - |   |   |   |  |  |

| 2.6 Degreasers   |  |   |                               |  |                       |
|--|--|---|-------------------------------|--|-----------------------|
| 2.6.2 Emission Li                                      |  |   |                               |  |                       |
|  | ibution of VOC an<br>corresponding fac                               |   |                               | nical usage shall not  | t cause the           |
| 8 tons per   | er year of facility-<br>year of an individu<br>r year of total facil | al facility-wide                          | НАР                           |  |                       |
| Reporting Rec  | uirement   |   |                               |  |                       |
|  | all be submitted in a  | cordance with co                          | onditions 4.1 and             | 4 2 <sup>(1)</sup>   |                       |
| 2.0.0.0 Reports sh                                     |  |   | inditions und                 |  |                       |
| Reports shal   | l not include emissio  | ons from insignifi                        | cant activities. E            | shall be submitted on<br>mission estimates of<br>5. Emission estimates   | criteria pollutants   |
| Ų  |  | 1   | 1                             | of actual emissions t<br>s specified in Section  | Ų                     |
| <sup>(1)</sup> Condition 4.2 refer<br>Number SBR201200 |  | -Annual Monitorin                         | g report which LA             | NL submitted on Febru  | ary 9, 2012, Tracking |
| Has this reporting r<br>Yes or No below.               | equirement been me   | t during this repo                        | rting period with             | a separate reporting   | submittal? Answer     |
| <b>Yes</b>   | Date report sub  | mitted:                                   |                               | Tracking Number:   |                       |
|  | •  |   |                               | 0  |                       |
| X No Prov  | de comments and i  | dentify any supp                          | porting document              | itation as an attachi  | nent.                 |
|  |  |   | . 0                           |  |                       |
| Comments:<br>Degreaser<br>TA-55-DG-1                   | January - June<br>Emissions<br>(tons)                                | July -<br>December<br>Emissions<br>(tons) | Annual<br>Emissions<br>(tons) | Permit Limits<br>(Condition 2.6.2.1)<br>(tons per year)  |                       |
| Comments:<br>Degreaser                                 | Emissions  | December                                  | Annual<br>Emissions           | Permit Limits<br>(Condition 2.6.2.1)<br>(tons per year)<br>Source limits refer<br>to facility-wide   |                       |
| Comments:<br>Degreaser<br>TA-55-DG-1                   | Emissions<br>(tons)  | December<br>Emissions<br>(tons)           | Annual<br>Emissions<br>(tons) | Permit Limits<br>(Condition 2.6.2.1)<br>(tons per year)<br>Source limits refer   |                       |
| Comments:<br>Degreaser<br>TA-55-DG-1<br>VOCs           | Emissions<br>(tons)  | December<br>Emissions<br>(tons)           | Annual<br>Emissions<br>(tons) | Permit Limits<br>(Condition 2.6.2.1)<br>(tons per year)<br>Source limits refer<br>to facility-wide<br>limits. (See Facility<br>Emissions Table |                       |
| Comments:<br>Degreaser<br>TA-55-DG-1<br>VOCs           | Emissions<br>(tons)  | December<br>Emissions<br>(tons)           | Annual<br>Emissions<br>(tons) | Permit Limits<br>(Condition 2.6.2.1)<br>(tons per year)<br>Source limits refer<br>to facility-wide<br>limits. (See Facility<br>Emissions Table |                       |
| Comments:<br>Degreaser<br>TA-55-DG-1<br>VOCs           | Emissions<br>(tons)  | December<br>Emissions<br>(tons)           | Annual<br>Emissions<br>(tons) | Permit Limits<br>(Condition 2.6.2.1)<br>(tons per year)<br>Source limits refer<br>to facility-wide<br>limits. (See Facility<br>Emissions Table |                       |

## 2.7 Internal Combustion Sources

| Source         Allowable Emission Limits           NO <sub>x</sub> <sup>1</sup> CO         VOC         SO <sub>x</sub> <sup>2</sup>   |  |  |   |   |  |  | nission   | Limit                                      | s   |   |  |                                |
|---|--|--|---|---|--|--|---|--|---|---|--|--------------------------------|
|   | N  | O <sub>x</sub> <sup>1</sup>  | C   | 0   | VC   | )C   | SC  | $D_x^2$                                    | T   | SP  | PN   | A10                            |
| TA 00 C 1   | pph  |  | pph   | tpy   | pph  | tpy  | pph   | tpy  | pph   | tpy   | pph  | tpy                            |
| TA-33-G-1<br>TA-33-G-2  | 40.3   |  | 33.7  | 15.2  | 0.7  | 0.3  | 5.5   | 2.5  | 1.4   | 0.6   | 1.4  | 0.6                            |
| TA-33-G-2<br>TA-33-G-3  | 0.83   |  | 0.2   | 0.1   | 0.1  |  |   |  |   |   |  |                                |
| A-33-G-4  | 9.33   |  | 5.7   | 1.4   | 0.75   | 0.2  | 0.62  | 0.16                                       |   |   |  |                                |
| Reports o<br>Reports o<br>Reports sl<br>NOx, CO<br>include fu   | shall be<br>f actual f<br>nall not f<br>, SO <sub>2</sub> , Pl<br>agitive en | submitted<br>emissions<br>include er<br>M and VO   | s from<br>missio<br>OCs sł                            | permit<br>ns fror<br>nall not   | tted sou<br>n insign<br>t include  | rces in<br>nificant<br>e fugiti<br>clude a | Sectio<br>activit   | n 2.0 sl<br>ies. En<br>ssions.<br>trison o | hall be s<br>nission<br>Emissi                                      | estimato<br>on estir  | es of cr<br>nates o  | iteria j<br>f HAP              |
| ber SBR2012<br>his reportin   | fers to su<br>0003.<br>g require   | ıbmitting a  | ne faci<br>a Semi-<br>en met                          | lity-wi<br>-Annua<br>during   | l Monito<br>g this re  | oring rej                                  | port whi  | th LAN                                     | IL subm   | ed in So  | ection 2<br>Februar  | 2.11 of<br>ry 9, 20            |
| permit.<br>ndition 4.2 re<br><u>ser SBR2012</u><br>his reportin<br><u>or No below</u><br>Yes<br>No Pr   | fers to su<br>0003.<br>g require   | ibmitting a  | ne faci<br>a Semi-<br>en met<br>rt subr               | lity-wi<br>-Annua<br>: durinş<br><u>mitted</u><br>lentify               | l Monito<br>g this re<br>:<br>r any su   | pring reporting                            | port whi  | d with a                                   | IL subm<br>a separa<br>Trackin                                      | ed in So<br>itted on<br>itte report   | Ection 2<br>Februar<br>rting su                                  | 2.11 of<br>ry 9, 20<br>ibmitta |
| permit.<br>adition 4.2 re<br><u>ver SBR2012</u><br>his reportin<br>or No below<br>Yes<br><u>No Pr</u>   | fers to su<br>0003.<br>g require.<br>D<br>ovide co                           | ibmitting a<br>ement bee<br>ate repor  | ne faci<br>a Semi-<br>en met<br>and io<br>June<br>ons | -Annua<br>- Annua<br>- during<br>mitted<br>dentify<br>J<br>Dec<br>Emi   | l Monito<br>g this re  | porting reporting                          | port whi  | al bons                                    | IL subm<br>a separa<br><u>Trackin</u><br>ation a<br>Pern<br>(Cond   | ed in So<br>itted on<br>itte report   | ection 2<br>Februar<br>rting su<br>hber:<br>tachmo<br>ts<br>7.2) | 2.11 of<br>ry 9, 20<br>ibmitta |
| permit.<br>ndition 4.2 re<br>ber SBR2012<br>this reportin<br>or No below<br><b>Yes</b><br><b>No Pro-<br/>ments:</b><br>Generator  | fers to su<br>0003.<br>g require.<br>D<br>ovide co                           | abmitting a<br>ement bec<br>ate report<br>omments<br>anuary<br>Emissio                       | ne faci<br>a Semi-<br>en met<br>and io<br>June<br>ons | -Annua<br>- Annua<br>: durinş<br>dentify<br>J<br>Dec<br>Emi<br>(t       | l Monito<br>g this re<br>:<br>any su<br>uly -<br>sember<br>ssions                              | porting reporting                          | ing doc<br>Annua  | al ons                                     | IL subm<br>a separa<br>Trackin<br>ation a<br>Pern<br>(Cond<br>(tons | ed in Se<br>itted on<br>te report<br>is an at<br>nit Limi<br>lition 2.7   | ection 2<br>Februar<br>rting su<br>hber:<br>tachmo<br>ts<br>7.2) | 2.11 of<br>ry 9, 20<br>ibmitta |
| permit.<br>ndition 4.2 re<br>ber SBR2012<br>his reportin<br>or No below<br>Yes<br>No Pro-<br>ments:<br>Generator<br>TA-33-G-1   | fers to su<br>0003.<br>g require.<br>D<br>ovide co                           | ement bee<br>ate report<br>omments<br>anuary - ,<br>Emissio<br>(tons)                        | a Semi-<br>en met<br>and ic<br>June                   | -Annua<br>- Annua<br>: durinş<br>dentify<br>Jec<br>Emi<br>(t            | l Monito<br>g this re<br>:<br>any su<br>uly -<br>sember<br>ssions<br>ons)                      | porting reporting                          | ing doc<br>Annua<br>(tons   | al ons                                     | IL subm<br>a separa<br>Trackin<br>ation a<br>Pern<br>(Cond<br>(tons | ed in So<br>itted on<br>ate report<br>as an at<br>s an at<br>hit Limi<br>ition 2.7<br>s per yea                   | ection 2<br>Februar<br>rting su<br>hber:<br>tachmo<br>ts<br>7.2) | 2.11 of<br>ry 9, 20<br>ibmitta |
| permit.<br>dition 4.2 re<br>er SBR2012<br>his reportin<br>r No below<br>Yes<br>No Pr<br>nents:<br>Generator<br>TA-33-G-1<br>NOx   | fers to su<br>0003.<br>g require.<br>D<br>ovide co                           | abmitting a<br>ement bec<br>ate report<br>omments<br>anuary - ,<br>Emissio<br>(tons)<br>4.91 | a Semi-<br>en met<br>and ic<br>June                   | -Annua<br>- during<br>mitted<br>Jentify<br>Dec<br>Emi<br>(t             | l Monito<br>g this re<br>r any su<br>uly -<br>cember<br>ssions<br>ons)<br>0.04                 | porting reporting                          | ing doc<br>Annua<br>(tons<br>4.95   | al ons                                     | IL subm<br>a separa<br>Trackin<br>ation a<br>Pern<br>(Cond<br>(tons | ed in So<br>itted on<br>ate report<br>as an at<br>hit Limi<br>lition 2.7<br>s per yea<br>18.1                     | ection 2<br>Februar<br>rting su<br>hber:<br>tachmo<br>ts<br>7.2) | 2.11 of<br>ry 9, 20<br>ibmitta |
| permit.<br>dition 4.2 re<br><u>er SBR2012</u><br>his reportin<br><u>r No below</u><br><u>Yes</u><br><u>No Pr</u><br>nents:<br>Generator<br>TA-33-G-1<br><u>NOx</u><br><u>SOx</u>  | fers to su<br>0003.<br>g require.<br>D<br>ovide co                           | abmitting a<br>ement bee<br>ate report<br>omments<br>Emissio<br>(tons)<br>4.91<br>0.73       | a Semi-<br>en met<br>rt subn<br>and ic                | Annua<br>during<br>mitted<br>J<br>Dec<br>Emi<br>(t<br>(<br>0<br>0       | l Monito<br>g this re<br>r any su<br>uly -<br>ssions<br>ons)<br>0.04<br>0.01                   | porting reporting                          | annua<br>annua<br>annua<br>anissia<br>(tons<br>4.95<br>0.74   | al ons                                     | IL subm<br>a separa<br>Trackin<br>ation a<br>Pern<br>(Cond<br>(tons | ed in So<br>itted on<br>tte report<br>ng Nun<br>as an at<br>hit Limi<br>lition 2.7<br>5 per yea<br>18.1<br>2.5    | ection 2<br>Februar<br>rting su<br>hber:<br>tachmo<br>ts<br>7.2) | 2.11 of<br>ry 9, 20<br>ibmitta |
| permit.<br>ondition 4.2 re<br>ber SBR2012<br>this reportin<br>or No below<br><b>Yes</b><br><b>No Pro-<br/>ments:</b><br><b>Generator</b><br><b>TA-33-G-1</b><br><b>NOx</b><br><b>SOx</b><br><b>TSP</b>                        | fers to su<br>0003.<br>g require.<br>D<br>ovide co                           | ate report<br>ate report<br>anuary - ,<br>Emissio<br>(tons)<br>4.91<br>0.73<br>0.16          | a Semi-<br>en met<br>rt subn<br>and ic                | Annua<br>during<br>dentify<br>J<br>Dec<br>Emi<br>(t<br>0<br>0<br>0<br>0 | I Monito<br>g this re<br>r any su<br>uly -<br>sember<br>ssions<br>ons)<br>0.04<br>0.01         | porting reporting                          | annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>annua<br>anna<br>annua<br>annua<br>anna<br>annua<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>anna<br>ann<br>anna<br>anna<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>ann<br>annnn<br>annn<br>ann<br>ann<br>annn<br>annnn<br>annn<br>ann<br>ann<br>annn<br>annnn<br>annnn<br>a | al ons                                     | IL subm<br>a separa<br>Trackin<br>ation a<br>Pern<br>(Cond<br>(tons | ed in Se<br>itted on<br>tte report<br>as an at<br>hit Limi<br>lition 2.7<br>s per yea<br>18.1<br>2.5<br>0.6       | ection 2<br>Februar<br>rting su<br>hber:<br>tachmo<br>ts<br>7.2) | 2.11 of<br>ry 9, 20<br>ibmitta |
| permit.<br>ndition 4.2 re<br>ber SBR2012<br>this reportin<br>or No below<br><b>Yes</b><br><b>No Pr</b><br>ments:<br><b>Generator</b><br><b>TA-33-G-1</b><br><b>NOx</b><br><b>SOx</b><br><b>TSP</b><br><b>PM</b> <sub>10</sub> | fers to su<br>0003.<br>g require.<br>D<br>ovide co                           | ate report<br>ate report<br>anuary - ,<br>Emissio<br>(tons)<br>4.91<br>0.73<br>0.16<br>0.16  | a Semi-<br>en met<br>rt subr<br>June                  | Annua<br>during<br>dentify<br>J<br>Dec<br>Emi<br>(t<br>0<br>0<br>0      | I Monito<br>g this re<br>r any su<br>uly -<br>sember<br>ssions<br>0.04<br>0.01<br>.001<br>.001 | porting reporting                          | Annua<br>Annua<br>Ming doc<br>(tons<br>4.95<br>0.74<br>0.17<br>0.17   | al ons                                     | IL subm<br>a separa<br>Trackin<br>ation a<br>Pern<br>(Cond<br>(tons | ed in Se<br>itted on<br>te report<br>as an at<br>hit Limi<br>lition 2.7<br>s per yea<br>18.1<br>2.5<br>0.6<br>0.6 | ection 2<br>Februar<br>rting su<br>hber:<br>tachmo<br>ts<br>7.2) | 2.11 of<br>ry 9, 20<br>ibmitta |

| 2.7 Internal Con       | nbustion Sour                         | <b>ces</b> - continu                      | ed                            |   |
|------------------------|---------------------------------------|---|-------------------------------|---|
| Comments:              |                                       |   |                               |   |
| Generator<br>TA-33-G-2 | January - June<br>Emissions<br>(tons) | July -<br>December<br>Emissions<br>(tons) | Annual<br>Emissions<br>(tons) | Permit Limits<br>(Condition 2.7.2)<br>(tons per year) |
| NOx                    | 0.001                                 | 0.003                                     | 0.004                         | 0.21  |
| SO <sub>x</sub>        | 0.000                                 | 0.000                                     | 0.000                         | Not Required  |
| TSP                    | 0.000                                 | 0.000                                     | 0.000                         | Not Required  |
| PM <sub>10</sub>       | 0.000                                 | 0.000                                     | 0.000                         | Not Required  |
| СО                     | 0.000                                 | 0.001                                     | 0.001                         | 0.1   |
| VOC                    | 0.000                                 | 0.000                                     | 0.000                         | Not Required  |
| HAPs                   | 2.03E-07                              | 9.73E-07                                  | 1.18E-06                      | No Source Limit                                       |

**Note:** This generator only ran for 1.5 hours during the first six months of 2011 and 8.7 hours during the second six months of 2011.

| Generator<br>TA-33-G-3 | January - June<br>Emissions<br>(tons) | July -<br>December<br>Emissions<br>(tons) | Annual<br>Emissions<br>(tons) | Permit Limits<br>(Condition 2.7.2)<br>(tons per year) |
|------------------------|---------------------------------------|---|-------------------------------|---|
| NOx                    | 0.000                                 | 0.002                                     | 0.002                         | 0.21  |
| SO <sub>x</sub>        | 0.000                                 | 0.000                                     | 0.000                         | Not Required  |
| TSP                    | 0.000                                 | 0.000                                     | 0.000                         | Not Required  |
| PM <sub>10</sub>       | 0.000                                 | 0.000                                     | 0.000                         | Not Required  |
| CO                     | 0.000                                 | 0.000                                     | 0.000                         | 0.1   |
| VOC                    | 0.000                                 | 0.000                                     | 0.000                         | Not Required  |
| HAPs                   | 0.00E+00                              | 5.00E-07                                  | 5.00E-07                      | No Source Limit                                       |

**Note:** This generator rdid not run for the first 6 months of 2011. and only operated for 3.7 hours during the second six months of 2011.

| Generator<br>TA-33-G-4 | January - June<br>Emissions<br>(tons) | July -<br>December<br>Emissions<br>(tons) | Annual<br>Emissions<br>(tons) | Permit Limits<br>(Condition 2.7.2)<br>(tons per year) |
|------------------------|---------------------------------------|---|-------------------------------|---|
| NOx                    | 0.057                                 | 0.014                                     | 0.071                         | 2.33  |
| SO <sub>x</sub>        | 0.004                                 | 0.001                                     | 0.005                         | 0.16  |
| TSP                    | 0.004                                 | 0.001                                     | 0.005                         | Not Required  |
| PM <sub>10</sub>       | 0.004                                 | 0.001                                     | 0.005                         | Not Required  |
| CO                     | 0.012                                 | 0.003                                     | 0.015                         | 1.4   |
| VOC                    | 0.004                                 | 0.001                                     | 0.005                         | 0.2   |
| HAPs                   | 1.83E-05                              | 4.56E-06                                  | 2.28E-05                      | No Source Limit                                       |

Continued on the next page.

### 2.7 Internal Combustion Sources - continued

## Comments:

| Stationary Standby<br>Generators | January - June<br>Emissions<br>(tons) | July -<br>December<br>Emissions<br>(tons) | Annual<br>Emissions<br>(tons) | Permit Limits                  |
|----------------------------------|---------------------------------------|---|-------------------------------|--------------------------------|
| NOx                              | 2.61                                  | 3.58                                      | 6.19                          |                                |
| SOx                              | 0.08                                  | 0.10                                      | 0.18                          |                                |
| TSP                              | 0.11                                  | 0.14                                      | 0.25                          | No Source Specific             |
| PM <sub>10</sub>                 | 0.11                                  | 0.14                                      | 0.25                          | Emission Limits for<br>Standby |
| CO                               | 0.61                                  | 0.84                                      | 1.45                          | Generators                     |
| VOC                              | 0.11                                  | 0.14                                      | 0.25                          |                                |
| HAPs                             | 0.001                                 | 0.001                                     | 0.002                         |                                |

Note: Standby Generators are insignificant sources.

| Source  |   | Allowa  | ble Emission Li  | mits  | ]   |
|---|---|---|--|---|---|
| -52-11  | TSP (pph)   | TSP (tp   |  | 0 (pph)   | PM10 (tpy)  |
|   | 2.3<br>issions limits sho                                   | 9.9   |  | 2.3   | 9.9   |
| Reports of actu<br>Reports shall no<br>NOx, CO, SO <sub>2</sub> ,<br>include fugitive | ot include emissio<br>PM and VOCs sh<br>e emissions. The re | permitted source<br>ns from insignifi<br>nall not include f<br>eports shall inclu | es in Section 2.0 s<br>cant activities. En<br>ugitive emissions<br>de a comparison | shall be submit<br>mission estima<br>. Emission esti<br>of actual emiss | tted on a 6 month basi<br>ttes of criteria pollutar<br>imates of HAPs shall<br>sions that occurred du<br>Section 2.11 of this |
| ber SBR20120003.<br>his reporting requ  | -   |   |  |   | n February 9, 2012, Trac  |
| or No below.  | Date report sub   | mitted  |  | Tracking Nu   | mher  |
|   |   |   |  |   |   |
|   |   |   |  |   |   |
|   | comments and ic   | lentify any supp  | oorting documen  | itation as an a   | uttachment.   |
| ments:  | comments and id<br>January - June<br>Emissions<br>(tons)    | July -<br>December<br>Emissions   | Annual<br>Emissions<br>(tons)  | Permit Lim<br>(Condition 2<br>(tons per ye                              | nits<br>8.2)  |
| ments:<br>a Disintegrator   | January - June<br>Emissions                                 | July -<br>December  | Annual<br>Emissions  | Permit Lin<br>(Condition 2  | nits<br>8.2)  |
| ments:<br>a Disintegrator<br>TA-52-11   | January - June<br>Emissions<br>(tons)                       | July -<br>December<br>Emissions<br>(tons)   | Annual<br>Emissions<br>(tons)  | Permit Lin<br>(Condition 2<br>(tons per ye                              | nits<br>8.2)  |

### 2.9 Power Plant at Technical Area 3 (TA-3-22)

2.9.2 Emission Limits

| Source                                    |      |      |     |     | Allowa | ble En | nission | Limi | its |                 |     |     |
|---|------|------|-----|-----|--------|--------|---------|------|-----|-----------------|-----|-----|
| Source                                    | N    | Ox   | C   | O   | S      | Dx     | TS      | SP   | PM  | [ <sub>10</sub> | V   | C   |
|   | Gas  | Oil  | Gas | Oil | Gas    | Oil    | Gas     | Oil  | Gas | Oil             | Gas | Oil |
| TA-3-22-1<br>(lb/hr)                      | 10.2 | 11.3 | 7.0 | 6.5 | 1.1    | 9.6    | 1.3     | 4.3  | 1.3 | 3.0             | 1.0 | 0.3 |
| TA-3-22-2<br>(lb/hr)                      | 10.2 | 11.3 | 7.0 | 6.5 | 1.1    | 9.6    | 1.3     | 4.3  | 1.3 | 3.0             | 1.0 | 0.3 |
| TA-3-22-3<br>(lb/hr)                      | 10.2 | 11.3 | 7.0 | 6.5 | 1.1    | 9.6    | 1.3     | 4.3  | 1.3 | 3.0             | 1.0 | 0.3 |
| Boilers<br>Individually<br>(tpy)          | 3    | 5.9  | N   | /A  | N      | /A     | N/      | A    | N/. | A               | N   | /A  |
| Boilers<br>Combined <sup>1</sup><br>(tpy) | 60   | 0.2  | 41  | 1.3 | 7      | .9     | 8.      | 4    | 8.  | 2               | 5   | .6  |

|                                       |      | Allowable Emission Limits          |                 |     |             |     |         |    |     |     |     |     |
|---------------------------------------|------|------------------------------------|-----------------|-----|-------------|-----|---------|----|-----|-----|-----|-----|
| Source                                | N    | NOX CO SOX TSP PM <sub>10</sub> VO |                 |     |             |     |         | DC |     |     |     |     |
|                                       | Gas  | Oil                                | Gas             | Oil | Gas         | Oil | Gas Oil |    | Gas | Oil | Gas | Oil |
| TA-3-22 CT-<br>1 (lb/hr)              | 23   | 3.8                                | 17              | 0.9 | 1           | .4  | 1.      | 6  | 1.0 | 6   | 1.  | 0   |
| TA-3-22 CT-<br>1 (tpy) <sup>1,2</sup> | 33.2 |                                    | 19.8            |     | 1.9         |     | 2.      | 3  | 2.3 | 3   | -   |     |
| TA-3-22<br>CT-1 (ppm)                 |      | mv @<br>% O2                       | N/A N/A N/A N/A |     | N/A N/A N/A |     | A       | N  | A   |     |     |     |

Annual emission limits are 12-month rolling totals. This is pursuant to NSR Permit 2195B-M1R2,

Table 2.1, Note 7.

"-" notation implies emission rates less than or equal to 0.5 tpy.

\* N/A means not applicable.

### **Reporting Requirement**

2.9.6.1 Reports shall be submitted in accordance with conditions 4.1 and 4.2.<sup>(1)</sup>

4.1 Reports of actual emissions from permitted sources in Section 2.0 shall be submitted on a 6 month basis. Reports shall not include emissions from insignificant activities. Emission estimates of criteria pollutants NOx, CO, SO<sub>2</sub>, PM and VOCs shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. The reports shall include a comparison of actual emissions that occurred during the reporting period with the facility-wide allowable emission limits specified in Section 2.11 of this permit.

<sup>(1)</sup> Condition 4.2 refers to submitting a Semi-Annual Monitoring report which LANL submitted on February 9, 2012, Tracking Number SBR20120003.

 Has this reporting requirement been met during this reporting period with a separate reporting submittal? Answer Yes or No below.

 Yes
 Date report submitted:
 Tracking Number:

 X
 No
 Provide comments and identify any supporting documentation as an attachment.

 Comments:
 Continued on the next page

2.9 Power Plant at Technical Area 3 (TA-3-22) - Continued

| Boilers<br>TA-3-22-1, TA-3-22-2,<br>TA-3-22-3 | January - June<br>Emissions<br>(tons) | July -<br>December<br>Emissions<br>(tons) | Annual<br>Emissions<br>(tons) | Permit Limit<br>(Condition 2.9.2)<br>(tons per year) |
|---|---------------------------------------|---|-------------------------------|--|
| NOx   | 7.22                                  | 5.82                                      | 13.04                         | 60.2   |
| SO <sub>2</sub>                               | 0.26                                  | 0.06                                      | 0.32                          | 7.9  |
| TSP   | 0.97                                  | 0.76                                      | 1.73                          | 8.4  |
| PM <sub>10</sub>                              | 0.96                                  | 0.76                                      | 1.72                          | 8.2  |
| СО  | 4.95                                  | 4.01                                      | 8.96                          | 41.3   |
| VOC   | 0.67                                  | 0.55                                      | 1.22                          | 5.6  |
| HAPs  | 0.23                                  | 0.19                                      | 0.42                          | No Source Limit                                      |

| Boiler    | Pollutant | January - June<br>Emissions<br>(tons) | July -<br>December<br>Emissions<br>(tons) | Annual<br>Emissions<br>(tons) | Permit Limit<br>(Condition 2.9.2)<br>(tons per year) |
|-----------|-----------|---------------------------------------|---|-------------------------------|--|
| TA-3-22-1 | NOx       | 3.19                                  | 3.21                                      | 6.40                          | 35.9   |
| TA-3-22-2 | NOx       | 3.84                                  | 2.18                                      | 6.02                          | 35.9   |
| TA-3-22-3 | NOx       | 0.19                                  | 0.42                                      | 0.61                          | 35.9   |

| Combustion Turbine<br>TA-3-22 CT-1 | January - June<br>Emissions<br>(tons) | July -<br>December<br>Emissions<br>(tons) | Annual<br>Emissions<br>(tons) | Permit Limit<br>(Condition 2.9.2)<br>(tons per year) |  |  |
|------------------------------------|---------------------------------------|---|-------------------------------|--|--|--|
| NOx                                | 0.50                                  | 1.27                                      | 1.76                          | 33.2   |  |  |
| SO <sub>2</sub>                    | 0.04                                  | 0.09                                      | 0.13                          | 1.9  |  |  |
| TSP                                | 0.07                                  | 0.17                                      | 0.24                          | 2.3  |  |  |
| PM <sub>10</sub>                   | 0.07                                  | 0.17                                      | 0.24                          | 2.3  |  |  |
| СО                                 | 0.10                                  | 0.26                                      | 0.36                          | 19.8   |  |  |
| VOC                                | 0.02                                  | 0.06                                      | 0.08                          | No TPY Limit   |  |  |
| HAPs                               | 0.01                                  | 0.03                                      | 0.04                          | No Source Limit                                      |  |  |

| 1.10 Open Burning         2.10.2 Emission Limits         2.10.2 Emission Limits         2.11. The contribution of HAP emissions from open burning shall not cause the exceedance of the corresponding facility-wide HAP 24 tons per year of total facility on the significant activities. Emission estimates of titler pollutants NOX, CO, SO, PM and VOC shall not include fugitive emissions. Emission estimates of HAP shall include a comparison of actual emissions frame outpress thall include a comparison of actual emission frame or courred during the reporting period with the facility-wide allowable emission limits specified in Section 2.11 of this permit.         Marcine Table Comments been met during this reporting period with a separate reporting submittal? Answer Yes or No below.         Yes       Date report submitted:       Tracking Number:         No       Portede comments and identify any supporting documentation as an attachment.         Comments:       No pen burning activities took place in 2011. | • 0   |
|---|---|
| 2.10.2.1 The contribution of HAP emissions from open burning shall not cause the exceedance of the corresponding facility-wide limit listed below:         8 tons per year of an individual facility-wide HAP 24 tons per year of total facility-wide HAPs         2.10.5.1 Reports grequirement         2.10.5.1 Reports shall be submitted in accordance with conditions 4.1.         4.1         Reports of actual emissions from permitted sources in Section 2.0 shall be submitted on a 6 month basis. Reports shall not include emissions from insignificant activities. Emission estimates of criteria pollutants NOX, CO, SO <sub>2</sub> , PM and VOCs shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. The reports shall include a comparison of actual emissions that occurred during the reporting period with the facility-wide allowable emission limits specified in Section 2.11 of this permit.         Has this reporting requirement been met during this reporting period with a separate reporting submittal? Answer Yes or No below.         Yes       Date report submitted:       Tracking Number:         Xo       Provide comments and identify any supporting documentation as an attachment.         Comments:       Comments       Comments   |   |
| of the corresponding facility-wide limit listed below:         8 tons per year of an individual facility-wide HAP 24 tons per year of total facility-wide HAPs         2.10.5.1 Reporting Requirement         2.10.5.1 Reports shall be submitted in accordance with conditions 4.1.         4.1         Reports of actual emissions from permitted sources in Section 2.0 shall be submitted on a 6 month basis.<br>Reports shall not include emissions from insignificant activities. Emission estimates of criteria pollutants NOx, CO, SO <sub>2</sub> , PM and VOCs shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. The reports shall include a comparison of actual emissions that occurred during the reporting period with the facility-wide allowable emission limits specified in Section 2.11 of this permit.         Has this reporting requirement been met during this reporting period with a separate reporting submittal? Answer Yes or No below.         Yes       Date report submitted:       Tracking Number:         X       No       Provide comments and identify any supporting documentation as an attachment.   | 2.10.2 Emission Limits  |
| At tons per year of total facility-wide HAPs         Reporting Requirement         2.10.5.1 Reports shall be submitted in accordance with conditions 4.1.         4.1       Reports of actual emissions from permitted sources in Section 2.0 shall be submitted on a 6 month basis.<br>Reports shall not include emissions from insignificant activities. Emission estimates of criteria pollutants<br>NOx, CO, SO <sub>2</sub> , PM and VOCs shall not include fugitive emissions. Emission estimates of HAPs shall<br>include fugitive emissions. The reports shall include a comparison of actual emissions that occurred during<br>the reporting period with the facility-wide allowable emission limits specified in Section 2.11 of this<br>permit.         Has this reporting requirement been met during this reporting period with a separate reporting submittal? Answer<br>Yes or No below.         Yes       Date report submitted:       Tracking Number:         X       No       Provide comments and identify any supporting documentation as an attachment.   |   |
| 2.10.5.1 Reports shall be submitted in accordance with conditions 4.1.         4.1 Reports of actual emissions from permitted sources in Section 2.0 shall be submitted on a 6 month basis. Reports shall not include emissions from insignificant activities. Emission estimates of criteria pollutants NOx, CO, SO <sub>2</sub> , PM and VOCs shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. The reports shall include a comparison of actual emissions that occurred during the reporting period with the facility-wide allowable emission limits specified in Section 2.11 of this permit.         Has this reporting requirement been met during this reporting period with a separate reporting submittal? Answer Yes or No below.         Yes       Date report submitted:       Tracking Number:         X       No       Provide comments and identify any supporting documentation as an attachment.  |   |
| Reports of actual emissions from permitted sources in Section 2.0 shall be submitted on a 6 month basis.         Reports shall not include emissions from insignificant activities. Emission estimates of criteria pollutants NOx, CO, SO <sub>2</sub> , PM and VOCs shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. The reports shall include a comparison of actual emissions that occurred during the reporting period with the facility-wide allowable emission limits specified in Section 2.11 of this permit.         Has this reporting requirement been met during this reporting period with a separate reporting submittal? Answer Yes or No below.         Yes       Date report submitted:         Tracking Number:         X       No         Provide comments and identify any supporting documentation as an attachment.         Comments:   |   |
| Yes or No below.       Tracking Number:         Yes       Date report submitted:       Tracking Number:         X       No       Provide comments and identify any supporting documentation as an attachment.         Comments:       Comments:   | Reports of actual emissions from permitted sources in Section 2.0 shall be submitted on a 6 month basis.<br>Reports shall not include emissions from insignificant activities. Emission estimates of criteria pollutants<br>NOx, CO, SO <sub>2</sub> , PM and VOCs shall not include fugitive emissions. Emission estimates of HAPs shall<br>include fugitive emissions. The reports shall include a comparison of actual emissions that occurred during<br>the reporting period with the facility-wide allowable emission limits specified in Section 2.11 of this |
| X         No         Provide comments and identify any supporting documentation as an attachment.           Comments:         Comments:   |   |
| Comments:   | Yes Date report submitted: Tracking Number:   |
| Comments:   | <b>X</b> No. Provide comments and identify any supporting documentation as an attachment  |
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## 2.11 Facility Wide Emission Limits

2.11.1 Emission Limits

| Pollutant                          | Emission Limit (tons per year) |  |
|------------------------------------|--------------------------------|--|
| Nitrogen Oxides (NO <sub>x</sub> ) | 245                            |  |
| Carbon Monoxide (CO)               | 225                            |  |
| Volatile Organic Compounds (VOCs)  | 200                            |  |
| Sulfur Dioxide (SO <sub>2</sub> )  | 150                            |  |
| Particulate Matter (PM)            | 120                            |  |
| Hazardous Air Pollutants (HAPs)    | 24 combined / 8 individual     |  |

#### **Reporting Requirement**

4.1 Reports of actual emissions from permitted sources in Section 2.0 shall be submitted on a 6 month basis. Reports shall not include emissions from insignificant activities. Emission estimates of criteria pollutants NOx, CO, SO<sub>2</sub>, PM and VOCs shall not include fugitive emissions. Emission estimates of HAPs shall include fugitive emissions. The reports shall include a comparison of actual emissions that occurred during the reporting period with the facility-wide allowable emission limits specified in Section 2.11 of this permit.

Has this reporting requirement been met during this reporting period with a separate reporting submittal? Answer Yes or No below.

Yes

Date report submitted:

**Tracking Number:** 

**X** No Provide comments and identify any supporting documentation as an attachment.

| Comments:                          |                                       |   |                                    |   |  |
|------------------------------------|---------------------------------------|---|------------------------------------|---|--|
| Pollutant                          | January - June<br>Emissions<br>(tons) | July -<br>December<br>Emissions<br>(tons) | 2011 Annual<br>Emissions<br>(tons) | Facility Wide<br>Permit Limits<br>(Condition 2.11.1)<br>(tons per year) |  |
| Nitrogen Oxides                    | 30.3                                  | 23.3                                      | 53.7                               | 245   |  |
| Sulfur Dioxide                     | 1.2                                   | 0.3                                       | 1.5                                | 150   |  |
| Particulate Matter                 | 2.6                                   | 2.2                                       | 4.8                                | 120   |  |
| Carbon Monoxide                    | 22.2                                  | 16.1                                      | 38.3                               | 225   |  |
| Volatile Organic Compounds         | 5.2                                   | 4.5                                       | 9.7                                | 200   |  |
| Hazardous Air Pollutants           | 1.6                                   | 2.1                                       | 4.7                                | 24 combined   |  |
| Highest Individual HAP<br>(Hexane) | 0.12                                  | 0.46                                      | 0.58                               | 8 individual  |  |