



SEP 14 2011

Gerardo C. Rios, Chief  
Permits Office (AIR-3)  
U.S. EPA - Region IX  
75 Hawthorne St  
San Francisco, CA 94105

**Re: Notice of Final Action - Minor Title V Permit Modification  
District Facility # N-593  
Project # N-1110004**

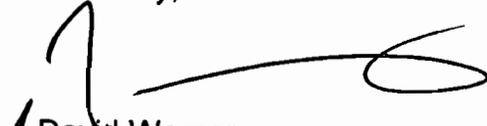
Dear Mr. Rios:

The Air Pollution Control Officer has modified the Title V permit for Owens Brockway Glass Container by incorporating Authorities to Construct N-593-2-7, '-11-7, '-37-1, '-38-1, '-39-1, '-40-1, and '-41-1. The existing hot end surface treatment unit permits were modified to replace the existing shared dust collection unit with a duplex baghouse.

Enclosed is the modified Title V permit. The application and proposal were sent to US EPA Region IX on May 23, 2011. No comments were received following the District's preliminary decision on this project.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Rupi Gill, Permit Services Manager, at (209) 557-6400.

Sincerely,

  
David Warner  
Director of Permit Services

DW:JH/st

Enclosures

**Seyed Sadredin**  
Executive Director/Air Pollution Control Officer

**Northern Region**  
4800 Enterprise Way  
Modesto, CA 95356-8718  
Tel: (209) 557-6400 FAX: (209) 557-6475

**Central Region (Main Office)**  
1990 E. Gettysburg Avenue  
Fresno, CA 93726-0244  
Tel: (559) 230-6000 FAX: (559) 230-6061

**Southern Region**  
34946 Flyover Court  
Bakersfield, CA 93308-9725  
Tel: 661-392-5500 FAX: 661-392-5585



SEP 14 2011

Daniel Armagost  
Owens Brockway Glass Container  
14700 W. Schulte Road  
Tracy, CA 95377

**Re: Notice of Final Action - Minor Title V Permit Modification  
District Facility # N-593  
Project # N-1110004**

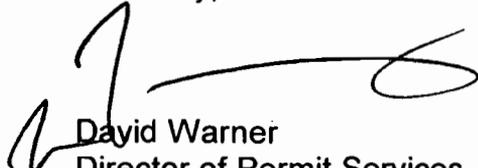
Dear Mr. Armagost:

The Air Pollution Control Officer has modified the Title V permit for Owens Brockway Glass Container by incorporating Authorities to Construct N-593-2-7, '-11-7, '-37-1, '-38-1, '-39-1, '-40-1, and '-41-1. The existing hot end surface treatment unit permits were modified to replace the existing shared dust collection unit with a duplex baghouse.

Enclosed is the modified Title V permit. The application and proposal were sent to US EPA Region IX on May 23, 2011. No comments were received following the District's preliminary decision on this project.

Thank you for your cooperation in this matter. If you have any questions, please contact Mr. Rupi Gill, Permit Services Manager, at (209) 557-6400.

Sincerely,



David Warner  
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Enclosures

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Tel: 661-392-5500 FAX: 661-392-5585

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-593-2-8

EXPIRATION DATE: 07/31/2012

## EQUIPMENT DESCRIPTION:

HOT END SURFACE TREATMENT HOOD A1 WITH ONE APPLICATION HOOD SERVED BY AN AEROPULSE INCORPORATED MODEL (2)PR-144 (120)-10-H-N DUPLEX BAGHOUSE (SHARED WITH N-593-11, '-37, '-38, '-39, '-40, AND '-41)

## PERMIT UNIT REQUIREMENTS

---

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$  if P is less than or equal to 30 tons per hour, or  $E = 17.31 \times P^{0.16}$  if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
3. Visible emissions from the baghouse serving the hot end surface treatment systems shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
4. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The material removed from the baghouse and transferred into the receiver shall be prevented from being re-entrained into the atmosphere. No material shall accumulate outside of the receiver. [District Rule 4102]
8. The receiver shall remain sealed at all times except during maintenance. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Emission rates from this unit shall not exceed either of the following limits: 0.01107 lb-PM10/lb-Monobutyltin Trichloride (MBTT) or 0.050 lb-VOC/lb-MBTT. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum throughput of MBTT used in this hot end surface treatment system shall not exceed 1.66 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed 8.91 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Ammonia (NH3) emissions combined for hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed either of the following limits: 1.8 lb/hr or 150 ppmvd. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE  
These terms and conditions are part of the Facility-wide Permit to Operate.

13. The permittee shall monitor and record the stack concentration (in ppmv) of NH<sub>3</sub> at least once every week using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit. [District Rule 4102]
14. Source testing to determine the rate of VOC, expressed as lb-VOC/lb-MBTT, shall be conducted at least once every twelve (12) months. [District Rules 2201 and 1081] Federally Enforceable Through Title V Permit
15. VOC source testing shall be conducted using EPA Methods 18, 25, 25A, 25B, or ARB Method 100. Results shall be converted to lb-VOC/lb-MBTT. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
16. The stack gas velocities shall be determined using EPA Method 2, the stack gas moisture content shall be determined using EPA Method 4, and the gas analysis for the determination of dry molecular weight shall be determined using EPA Method 3. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
19. The baghouse shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. Baghouse filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. The baghouse system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. Pressure gauges shall be inspected weekly and the results shall be recorded and made available for District inspection upon request. Corrective actions shall be implemented on the control equipment if indicated by the inspections. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. Records of baghouse maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. Records of the hourly and daily amount of MBTT used in the line shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Records of the combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Records of the weekly NH<sub>3</sub> concentration from the glass treatment operations shall be maintained. [District Rule 4102]
27. Records of the daily amount of glass treated from lines 22A & 22B shall be maintained and shall be made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
28. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
29. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-593-11-8

**EXPIRATION DATE:** 07/31/2012

**EQUIPMENT DESCRIPTION:**

HOT END SURFACE TREATMENT HOOD C1 WITH ONE APPLICATION HOOD SERVED BY AN AEROPULSE INCORPORATED MODEL (2)PR-144 (120)-10-H-N DUPLEX BAGHOUSE (SHARED WITH N-593-2, '-37, '-38, '-39, '-40, AND '-41)

## PERMIT UNIT REQUIREMENTS

---

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$  if P is less than or equal to 30 tons per hour, or  $E = 17.31 \times P^{0.16}$  if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
3. Visible emissions from the baghouse serving the hot end surface treatment systems shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
4. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The material removed from the baghouse and transferred into the receiver shall be prevented from being re-entrained into the atmosphere. No material shall accumulate outside of the receiver. [District Rule 4102]
8. The receiver shall remain sealed at all times except during maintenance. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Emission rates from this unit shall not exceed either of the following limits: 0.01107 lb-PM10/lb-Monobutyltin Trichloride (MBTT) or 0.050 lb-VOC/lb-MBTT. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum throughput of MBTT used in this hot end surface treatment system shall not exceed 1.66 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed 8.91 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Ammonia (NH3) emissions combined for hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed either of the following limits: 1.8 lb/hr or 150 ppmvd. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE  
These terms and conditions are part of the Facility-wide Permit to Operate.

13. The permittee shall monitor and record the stack concentration (in ppmv) of NH<sub>3</sub> at least once every week using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit. [District Rule 4102]
14. Source testing to determine the rate of VOC, expressed as lb-VOC/lb-MBTT, shall be conducted at least once every twelve (12) months. [District Rules 2201 and 1081] Federally Enforceable Through Title V Permit
15. VOC source testing shall be conducted using EPA Methods 18, 25, 25A, 25B, or ARB Method 100. Results shall be converted to lb-VOC/lb-MBTT. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
16. The stack gas velocities shall be determined using EPA Method 2, the stack gas moisture content shall be determined using EPA Method 4, and the gas analysis for the determination of dry molecular weight shall be determined using EPA Method 3. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
19. The baghouse shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. Baghouse filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. The baghouse system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. Pressure gauges shall be inspected weekly and the results shall be recorded and made available for District inspection upon request. Corrective actions shall be implemented on the control equipment if indicated by the inspections. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. Records of baghouse maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. Records of the hourly and daily amount of MBTT used in the line shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Records of the combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Records of the weekly NH<sub>3</sub> concentration from the glass treatment operations shall be maintained. [District Rule 4102]
27. Records of the daily amount of glass treated from line 22C shall be maintained and shall be made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
28. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
29. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-593-37-2

EXPIRATION DATE: 07/31/2012

## EQUIPMENT DESCRIPTION:

HOT END SURFACE TREATMENT HOOD A2 WITH ONE APPLICATION HOOD SERVED BY AN AEROPULSE INCORPORATED MODEL (2)PR-144 (120)-10-H-N DUPLEX BAGHOUSE (SHARED WITH N-593-2, '-11, '-38, '-39, '-40, AND '-41)

## PERMIT UNIT REQUIREMENTS

---

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$  if P is less than or equal to 30 tons per hour, or  $E = 17.31 \times P^{0.16}$  if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
3. Visible emissions from the baghouse serving the hot end surface treatment systems shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
4. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The material removed from the baghouse and transferred into the receiver shall be prevented from being re-entrained into the atmosphere. No material shall accumulate outside of the receiver. [District Rule 4102]
8. The receiver shall remain sealed at all times except during maintenance. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Emission rates from this unit shall not exceed either of the following limits: 0.01107 lb-PM10/lb-Monobutyltin Trichloride (MBTT) or 0.050 lb-VOC/lb-MBTT. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum throughput of MBTT used in this hot end surface treatment system shall not exceed 1.66 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed 8.91 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Ammonia (NH3) emissions combined for hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed either of the following limits: 1.8 lb/hr or 150 ppmvd. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. The permittee shall monitor and record the stack concentration (in ppmv) of NH<sub>3</sub> at least once every week using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit. [District Rule 4102]
14. Source testing to determine the rate of VOC, expressed as lb-VOC/lb-MBTT, shall be conducted at least once every twelve (12) months. [District Rules 2201 and 1081] Federally Enforceable Through Title V Permit
15. VOC source testing shall be conducted using EPA Methods 18, 25, 25A, 25B, or ARB Method 100. Results shall be converted to lb-VOC/lb-MBTT. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
16. The stack gas velocities shall be determined using EPA Method 2, the stack gas moisture content shall be determined using EPA Method 4, and the gas analysis for the determination of dry molecular weight shall be determined using EPA Method 3. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
19. The baghouse shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. Baghouse filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. The baghouse system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. Pressure gauges shall be inspected weekly and the results shall be recorded and made available for District inspection upon request. Corrective actions shall be implemented on the control equipment if indicated by the inspections. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. Records of baghouse maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. Records of the hourly and daily amount of MBTT used in the line shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Records of the combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Records of the weekly NH<sub>3</sub> concentration from the glass treatment operations shall be maintained. [District Rule 4102]
27. Records of the daily amount of glass treated from lines 22A & 22B shall be maintained and shall be made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
28. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
29. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-593-38-2

**EXPIRATION DATE:** 07/31/2012

**EQUIPMENT DESCRIPTION:**

HOT END SURFACE TREATMENT HOOD B1 WITH ONE APPLICATION HOOD SERVED BY AN AEROPULSE INCORPORATED MODEL (2)PR-144 (120)-10-H-N DUPLEX BAGHOUSE (SHARED WITH N-593-2, '-11, '-37, '-39, '-40, AND '-41)

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$  if P is less than or equal to 30 tons per hour, or  $E = 17.31 \times P^{0.16}$  if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
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PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. The permittee shall monitor and record the stack concentration (in ppmv) of NH<sub>3</sub> at least once every week using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit. [District Rule 4102]
14. Source testing to determine the rate of VOC, expressed as lb-VOC/lb-MBTT, shall be conducted at least once every twelve (12) months. [District Rules 2201 and 1081] Federally Enforceable Through Title V Permit
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19. The baghouse shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. Baghouse filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. The baghouse system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. Pressure gauges shall be inspected weekly and the results shall be recorded and made available for District inspection upon request. Corrective actions shall be implemented on the control equipment if indicated by the inspections. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. Records of baghouse maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. Records of the hourly and daily amount of MBTT used in the line shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Records of the combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Records of the weekly NH<sub>3</sub> concentration from the glass treatment operations shall be maintained. [District Rule 4102]
27. Records of the daily amount of glass treated from lines 22A & 22B shall be maintained and shall be made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
28. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
29. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

PERMIT UNIT: N-593-39-2

EXPIRATION DATE: 07/31/2012

## EQUIPMENT DESCRIPTION:

HOT END SURFACE TREATMENT HOOD B2 WITH ONE APPLICATION HOOD SERVED BY AN AEROPULSE INCORPORATED MODEL (2)PR-144 (120)-10-H-N DUPLEX BAGHOUSE (SHARED WITH N-593-2, '-11, '-37, '-38, '-40, AND '-41)

## PERMIT UNIT REQUIREMENTS

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1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$  if P is less than or equal to 30 tons per hour, or  $E = 17.31 \times P^{0.16}$  if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
3. Visible emissions from the baghouse serving the hot end surface treatment systems shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
4. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The material removed from the baghouse and transferred into the receiver shall be prevented from being re-entrained into the atmosphere. No material shall accumulate outside of the receiver. [District Rule 4102]
8. The receiver shall remain sealed at all times except during maintenance. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Emission rates from this unit shall not exceed either of the following limits: 0.01107 lb-PM10/lb-Monobutyltin Trichloride (MBTT) or 0.050 lb-VOC/lb-MBTT. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum throughput of MBTT used in this hot end surface treatment system shall not exceed 1.66 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed 8.91 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Ammonia (NH3) emissions combined for hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed either of the following limits: 1.8 lb/hr or 150 ppmvd. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. The permittee shall monitor and record the stack concentration (in ppmv) of NH<sub>3</sub> at least once every week using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit. [District Rule 4102]
14. Source testing to determine the rate of VOC, expressed as lb-VOC/lb-MBTT, shall be conducted at least once every twelve (12) months. [District Rules 2201 and 1081] Federally Enforceable Through Title V Permit
15. VOC source testing shall be conducted using EPA Methods 18, 25, 25A, 25B, or ARB Method 100. Results shall be converted to lb-VOC/lb-MBTT. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
16. The stack gas velocities shall be determined using EPA Method 2, the stack gas moisture content shall be determined using EPA Method 4, and the gas analysis for the determination of dry molecular weight shall be determined using EPA Method 3. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
19. The baghouse shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. Baghouse filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. The baghouse system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. Pressure gauges shall be inspected weekly and the results shall be recorded and made available for District inspection upon request. Corrective actions shall be implemented on the control equipment if indicated by the inspections. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. Records of baghouse maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. Records of the hourly and daily amount of MBTT used in the line shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Records of the combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Records of the weekly NH<sub>3</sub> concentration from the glass treatment operations shall be maintained. [District Rule 4102]
27. Records of the daily amount of glass treated from lines 22A & 22B shall be maintained and shall be made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
28. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
29. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-593-40-2

**EXPIRATION DATE:** 07/31/2012

**EQUIPMENT DESCRIPTION:**

HOT END SURFACE TREATMENT HOOD C2 WITH ONE APPLICATION HOOD SERVED BY AN AEROPULSE INCORPORATED MODEL (2)PR-144 (120)-10-H-N DUPLEX BAGHOUSE (SHARED WITH N-593-2, '-11, '-37, '-38, '-39, AND '-41)

## PERMIT UNIT REQUIREMENTS

---

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$  if P is less than or equal to 30 tons per hour, or  $E = 17.31 \times P^{0.16}$  if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
3. Visible emissions from the baghouse serving the hot end surface treatment systems shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
4. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The material removed from the baghouse and transferred into the receiver shall be prevented from being re-entrained into the atmosphere. No material shall accumulate outside of the receiver. [District Rule 4102]
8. The receiver shall remain sealed at all times except during maintenance. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Emission rates from this unit shall not exceed either of the following limits: 0.01107 lb-PM10/lb-Monobutyltin Trichloride (MBTT) or 0.050 lb-VOC/lb-MBTT. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum throughput of MBTT used in this hot end surface treatment system shall not exceed 1.66 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed 8.91 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Ammonia (NH3) emissions combined for hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed either of the following limits: 1.8 lb/hr or 150 ppmvd. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. The permittee shall monitor and record the stack concentration (in ppmv) of NH<sub>3</sub> at least once every week using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit. [District Rule 4102]
14. Source testing to determine the rate of VOC, expressed as lb-VOC/lb-MBTT, shall be conducted at least once every twelve (12) months. [District Rules 2201 and 1081] Federally Enforceable Through Title V Permit
15. VOC source testing shall be conducted using EPA Methods 18, 25, 25A, 25B, or ARB Method 100. Results shall be converted to lb-VOC/lb-MBTT. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
16. The stack gas velocities shall be determined using EPA Method 2, the stack gas moisture content shall be determined using EPA Method 4, and the gas analysis for the determination of dry molecular weight shall be determined using EPA Method 3. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
19. The baghouse shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. Baghouse filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. The baghouse system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. Pressure gauges shall be inspected weekly and the results shall be recorded and made available for District inspection upon request. Corrective actions shall be implemented on the control equipment if indicated by the inspections. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. Records of baghouse maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. Records of the hourly and daily amount of MBTT used in the line shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Records of the combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Records of the weekly NH<sub>3</sub> concentration from the glass treatment operations shall be maintained. [District Rule 4102]
27. Records of the daily amount of glass treated from line 22C shall be maintained and shall be made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
28. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
29. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.

# San Joaquin Valley Air Pollution Control District

**PERMIT UNIT:** N-593-41-2

**EXPIRATION DATE:** 07/31/2012

**EQUIPMENT DESCRIPTION:**

HOT END SURFACE TREATMENT HOOD G3 WITH ONE APPLICATION HOOD SERVED BY AN AEROPULSE INCORPORATED MODEL (2)PR-144 (120)-10-H-N DUPLEX BAGHOUSE (SHARED WITH N-593-2, '-11, '-37, '-38, '-39, AND '-40)

## PERMIT UNIT REQUIREMENTS

---

1. Particulate matter emissions shall not exceed 0.1 grains/dscf in concentration. [District Rule 4201] Federally Enforceable Through Title V Permit
2. Particulate matter emissions shall not exceed the hourly rate as calculated in District Rule 4202 using the equation  $E = 3.59 \times P^{0.62}$  if P is less than or equal to 30 tons per hour, or  $E = 17.31 \times P^{0.16}$  if P is greater than 30 tons per hour. [District Rule 4202] Federally Enforceable Through Title V Permit
3. Visible emissions from the baghouse serving the hot end surface treatment systems shall not equal or exceed 5% opacity for a period or periods aggregating more than three minutes in one hour. [District Rules 2201 and 4101] Federally Enforceable Through Title V Permit
4. The baghouse shall be equipped with a pressure differential gauge to indicate the pressure drop across the bags. The gauge shall be maintained in good working condition at all times and shall be located in an easily accessible location. [District Rule 2201] Federally Enforceable Through Title V Permit
5. The differential pressure gauge reading range shall be established per manufacturer's recommendation at time of start up inspection. [District Rule 2201] Federally Enforceable Through Title V Permit
6. Replacement bags numbering at least 10% of the total number of bags in the largest baghouse using each type of bag shall be maintained on the premises. [District Rule 2201] Federally Enforceable Through Title V Permit
7. The material removed from the baghouse and transferred into the receiver shall be prevented from being re-entrained into the atmosphere. No material shall accumulate outside of the receiver. [District Rule 4102]
8. The receiver shall remain sealed at all times except during maintenance. [District Rule 2201] Federally Enforceable Through Title V Permit
9. Emission rates from this unit shall not exceed either of the following limits: 0.01107 lb-PM10/lb-Monobutyltin Trichloride (MBTT) or 0.050 lb-VOC/lb-MBTT. [District Rule 2201] Federally Enforceable Through Title V Permit
10. The maximum throughput of MBTT used in this hot end surface treatment system shall not exceed 1.66 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
11. The maximum combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed 8.91 lb MBTT/hr. [District Rule 2201] Federally Enforceable Through Title V Permit
12. Ammonia (NH3) emissions combined for hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall not exceed either of the following limits: 1.8 lb/hr or 150 ppmvd. [District Rules 2201 and 4102] Federally Enforceable Through Title V Permit

PERMIT UNIT REQUIREMENTS CONTINUE ON NEXT PAGE

These terms and conditions are part of the Facility-wide Permit to Operate.

13. The permittee shall monitor and record the stack concentration (in ppmv) of NH<sub>3</sub> at least once every week using a portable emission monitor that meets District specifications. Monitoring shall not be required if the unit is not in operation, i.e. the unit need not be started solely to perform monitoring. Monitoring shall be performed within 5 days of restarting the unit. [District Rule 4102]
14. Source testing to determine the rate of VOC, expressed as lb-VOC/lb-MBTT, shall be conducted at least once every twelve (12) months. [District Rules 2201 and 1081] Federally Enforceable Through Title V Permit
15. VOC source testing shall be conducted using EPA Methods 18, 25, 25A, 25B, or ARB Method 100. Results shall be converted to lb-VOC/lb-MBTT. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
16. The stack gas velocities shall be determined using EPA Method 2, the stack gas moisture content shall be determined using EPA Method 4, and the gas analysis for the determination of dry molecular weight shall be determined using EPA Method 3. [District Rules 1081 and 2201] Federally Enforceable Through Title V Permit
17. Source testing shall be conducted using the methods and procedures approved by the District. The District must be notified at least 30 days prior to any compliance source test, and a source test plan must be submitted for approval at least 15 days prior to testing. [District Rule 1081] Federally Enforceable Through Title V Permit
18. The results of each source test shall be submitted to the District within 60 days thereafter. [District Rule 1081] Federally Enforceable Through Title V Permit
19. The baghouse shall be inspected weekly while in operation for visible emissions. If visible emissions are observed, appropriate action shall be taken, such as baghouse maintenance, cleaning, or replacement of bags as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
20. Baghouse filters shall be thoroughly inspected annually for tears, scuffs, abrasions, holes or any evidence of particulate matter leaks and shall be replaced as needed. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
21. The baghouse system shall be completely inspected annually while in operation for evidence of particulate matter leaks and repaired as needed [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
22. Pressure gauges shall be inspected weekly and the results shall be recorded and made available for District inspection upon request. Corrective actions shall be implemented on the control equipment if indicated by the inspections. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
23. Records of baghouse maintenance, inspections, and repair shall be maintained. The records shall include identification of the equipment, date of inspection, corrective action taken, and identification of the individual performing the inspection. [District Rule 2520, 9.3.2] Federally Enforceable Through Title V Permit
24. Records of the hourly and daily amount of MBTT used in the line shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
25. Records of the combined throughput of MBTT used in hot end surface treatment systems N-593-2, '-11, '-37, '-38, '-39, '-40, and '-41 shall be maintained. [District Rule 2201] Federally Enforceable Through Title V Permit
26. Records of the weekly NH<sub>3</sub> concentration from the glass treatment operations shall be maintained. [District Rule 4102]
27. Records of the daily amount of glass treated from line 22C shall be maintained and shall be made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
28. Records shall be retained on-site for a period of at least five years and made available for District inspection upon request. [District Rule 2201] Federally Enforceable Through Title V Permit
29. Compliance with the conditions in the permit requirements for this unit shall be deemed compliance with District Rule 4201. A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit

These terms and conditions are part of the Facility-wide Permit to Operate.