

New Basis, Inc.
2626 Kansas Ave.
Riverside, CA 92507
ID: 40806

EQUIPMENT DESCRIPTION

A/N 507895 (Existing equip. w/o permit):

STORAGE SILO, NO. 1, CALCIUM CARBONATE, 12'-0" DIA. X 13'-8" H. (OVERALL), 6,204 GALLON CAPACITY.

A/N 507894 (Existing equip. w/o permit):

STORAGE SILO, NO. 2, SAND, 12'-0" DIA. X 13'-8" H. (OVERALL), 6,204 GALLON CAPACITY.

A/N 507892 (Existing equip. w/o permit):

STORAGE SILO, NO. 3, CALCIUM CARBONATE, 12'-0" DIA. X 17'-0" H. (OVERALL), 7,473 GALLON CAPACITY.

A/N 507891 (Existing equip. w/o permit):

BAGHOUSE, NO. 1, DIVERSIFIED STORAGE SYSTEMS, MODEL NO. AIRMAX 150, EIGHTEEN BAG FILTERS, 150 SQ. FT. TOTAL FILTER AREA VENTING SILO NO. 1, WITH A MECHANICAL SHAKER.

A/N 507890 (Existing equip. w/o permit):

BAGHOUSE, NO. 2, EIGHTEEN BAG FILTERS, 127 SQ. FT. TOTAL FILTER AREA VENTING SILO NO. 2, WITH A MECHANICAL SHAKER.

A/N 507889 (Existing equip. w/o permit):

BAGHOUSE, NO. 3, EIGHTEEN BAG FILTERS, 127 SQ. FT. TOTAL FILTER AREA VENTING SILO NO. 3, WITH A MECHANICAL SHAKER.

A/N 493706 (Existing equip. w/o permit):

STORAGE TANK, RESIN, VERTICAL FIXED ROOF, 9'-11" DIA. X 10'-11" H., 6,307 GALLON CAPACITY.

A/N 493704:

TITLE V PERMIT REVISION

CONDITIONS

A/N 507895 (Storage silo no. 1):

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.

APPLICATION PROCESSING AND CALCULATION

[RULE 204]

3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS ONLY VENTED TO AN AIR POLLUTION CONTROL EQUIPMENT, WHICH IS IN FULL USE, AND WHICH HAS BEEN ISSUED AN OPERATING PERMIT BY THE EXECUTIVE OFFICER.
[RULE 1303(a)(1)-BACT]

PERIODIC MONITORING:

4. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS.

IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST, AND EITHER:

- A. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
- B. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.
[RULE 3004 (a)(4)]

EMISSIONS AND REQUIREMENTS:

5. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

APPLICATION PROCESSING AND CALCULATION

A/N 507894 (Storage silo no. 2):

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS ONLY VENTED TO AN AIR POLLUTION CONTROL EQUIPMENT, WHICH IS IN FULL USE, AND WHICH HAS BEEN ISSUED AN OPERATING PERMIT BY THE EXECUTIVE OFFICER.
[RULE 1303(a)(1)-BACT]

PERIODIC MONITORING:

4. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS.

IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST, AND EITHER:

- A. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
- B. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.
[RULE 3004 (a)(4)]

APPLICATION PROCESSING AND CALCULATION

EMISSIONS AND REQUIREMENTS:

5. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

A/N 507892 (Storage silo no. 3):

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS ONLY VENTED TO AN AIR POLLUTION CONTROL EQUIPMENT, WHICH IS IN FULL USE, AND WHICH HAS BEEN ISSUED AN OPERATING PERMIT BY THE EXECUTIVE OFFICER.
[RULE 1303(a)(1)-BACT]

PERIODIC MONITORING:

4. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS.

IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED THAT LAST MORE THAN THREE MINUTES IN ANY ONE-HOUR, THE OPERATOR SHALL VERIFY AND CERTIFY WITHIN 24 HOURS THAT THE EQUIPMENT CAUSING THE EMISSION AND ANY ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT ARE OPERATING NORMALLY ACCORDING TO THEIR DESIGN AND STANDARD PROCEDURES AND UNDER THE SAME CONDITIONS UNDER WHICH COMPLIANCE WAS ACHIEVED IN THE PAST, AND EITHER:

- A. TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT; OR
- B. HAVE A CARB-CERTIFIED SMOKE READER DETERMINE COMPLIANCE WITH THE OPACITY STANDARD, USING EPA METHOD 9 OR THE PROCEDURES IN THE CARB MANUAL "VISIBLE EMISSION EVALUATION", WITHIN THREE BUSINESS DAYS AND REPORT ANY DEVIATIONS TO AQMD.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

APPLICATION PROCESSING AND CALCULATION

- A. STACK OR EMISSION POINT IDENTIFICATION;
- B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS;
- C. DATE AND TIME VISIBLE EMISSION WAS ABATED; AND
- D. VISIBLE EMISSION OBSERVATION RECORDED BY A CERTIFIED SMOKE READER.
[RULE 3004 (a)(4)]

EMISSIONS AND REQUIREMENTS:

- 5. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

A/N 507891 (Baghouse no. 1):

- 1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
- 2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
- 3. A MECHANICAL GAUGE SHALL BE INSTALLED SO AS TO INDICATE, IN INCHES WATER COLUMN, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE BAGS.
[RULE 1303(A)(1)-BACT]
- 4. DUST COLLECTED IN THE BAGHOUSE SHALL BE DISCHARGED ONLY INTO CLOSED CONTAINERS.
[RULE 1303(A)(1)-BACT]

PERIODIC MONITORING:

- 5. THE OPERATOR SHALL PERFORM AN ANNUAL INSPECTION OF THE EQUIPMENT AND FILTER MEDIA FOR LEAKS, BROKEN OR TORN FILTER MEDIA AND IMPROPERLY INSTALLED FILTER MEDIA. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):
 - A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE FILTER MEDIA;
 - B. THE DATE, TIME AND RESULTS OF THE INSPECTION; AND
 - C. THE DATE, TIME AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.
[RULE 3004 (a)(4)]
- 6. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE

APPLICATION PROCESSING AND CALCULATION

OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED, THE OPERATOR SHALL TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

- A. STACK OR EMISSION POINT IDENTIFICATION;
 - B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS; AND
 - C. DATE AND TIME VISIBLE EMISSION WAS ABATED.
- [RULE 3004 (a)(4)]

EMISSIONS AND REQUIREMENTS:

- 7. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

A/N 507890 (Baghouse no. 2):

- 1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]
- 2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
- 3. A MECHANICAL GAUGE SHALL BE INSTALLED SO AS TO INDICATE, IN INCHES WATER COLUMN, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE BAGS.
[RULE 1303(A)(1)-BACT]
- 4. DUST COLLECTED IN THE BAGHOUSE SHALL BE DISCHARGED ONLY INTO CLOSED CONTAINERS.
[RULE 1303(A)(1)-BACT]

PERIODIC MONITORING:

- 5. THE OPERATOR SHALL PERFORM AN ANNUAL INSPECTION OF THE EQUIPMENT AND FILTER MEDIA FOR LEAKS, BROKEN OR TORN FILTER MEDIA AND IMPROPERLY INSTALLED FILTER MEDIA. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):
 - A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE FILTER MEDIA;

APPLICATION PROCESSING AND CALCULATION

B. THE DATE, TIME AND RESULTS OF THE INSPECTION; AND

C. THE DATE, TIME AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.

[RULE 3004 (a)(4)]

6. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED, THE OPERATOR SHALL TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT.

THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:

A. STACK OR EMISSION POINT IDENTIFICATION;

B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS; AND

C. DATE AND TIME VISIBLE EMISSION WAS ABATED.

[RULE 3004 (a)(4)]

EMISSIONS AND REQUIREMENTS:

7. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

A/N 507889 (Baghouse no. 3):

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.

[RULE 204]

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.

[RULE 204]

3. A MECHANICAL GAUGE SHALL BE INSTALLED SO AS TO INDICATE, IN INCHES WATER COLUMN, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE BAGS.

[RULE 1303(A)(1)-BACT]

4. DUST COLLECTED IN THE BAGHOUSE SHALL BE DISCHARGED ONLY INTO CLOSED CONTAINERS.

[RULE 1303(A)(1)-BACT]

PERIODIC MONITORING:

5. THE OPERATOR SHALL PERFORM AN ANNUAL INSPECTION OF THE EQUIPMENT AND FILTER MEDIA FOR LEAKS, BROKEN OR TORN FILTER MEDIA AND IMPROPERLY INSTALLED FILTER MEDIA. THE OPERATOR SHALL KEEP RECORDS, IN A MANNER APPROVED BY THE DISTRICT, FOR THE FOLLOWING PARAMETER(S) OR ITEM(S):
 - A. THE NAME OF THE PERSON PERFORMING THE INSPECTION AND/OR MAINTENANCE OF THE FILTER MEDIA;
 - B. THE DATE, TIME AND RESULTS OF THE INSPECTION; AND
 - C. THE DATE, TIME AND DESCRIPTION OF ANY MAINTENANCE OR REPAIRS RESULTING FROM THE INSPECTION.[RULE 3004 (a)(4)]

6. THE OPERATOR SHALL CONDUCT AN INSPECTION FOR VISIBLE EMISSIONS FROM ALL STACKS AND OTHER EMISSION POINTS OF THIS EQUIPMENT WHENEVER THERE IS A PUBLIC COMPLAINT OF VISIBLE EMISSIONS, WHENEVER VISIBLE EMISSIONS ARE OBSERVED, AND ON AN ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE ANNUAL PERIOD. THE ROUTINE ANNUAL INSPECTION SHALL BE CONDUCTED WHILE THE EQUIPMENT IS IN OPERATION AND DURING DAYLIGHT HOURS. IF ANY VISIBLE EMISSIONS (NOT INCLUDING CONDENSED WATER VAPOR) ARE DETECTED, THE OPERATOR SHALL TAKE CORRECTIVE ACTION(S) THAT ELIMINATES THE VISIBLE EMISSIONS WITHIN 24 HOURS AND REPORT THE VISIBLE EMISSIONS AS A POTENTIAL DEVIATION IN ACCORDANCE WITH THE REPORTING REQUIREMENTS IN SECTION K OF THIS PERMIT.
THE OPERATOR SHALL KEEP THE RECORDS IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS IN SECTION K OF THIS PERMIT AND THE FOLLOWING RECORDS:
 - A. STACK OR EMISSION POINT IDENTIFICATION;
 - B. DESCRIPTION OF ANY CORRECTIVE ACTIONS TAKEN TO ABATE VISIBLE EMISSIONS; AND
 - C. DATE AND TIME VISIBLE EMISSION WAS ABATED.[RULE 3004 (a)(4)]

EMISSIONS AND REQUIREMENTS:

7. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

A/N 493706 (Storage tank):

1. OPERATION OF THIS EQUIPMENT SHALL BE CONDUCTED IN ACCORDANCE WITH ALL DATA AND SPECIFICATIONS SUBMITTED WITH THE APPLICATION UNDER WHICH THIS PERMIT IS ISSUED UNLESS OTHERWISE NOTED BELOW.
[RULE 204]

APPLICATION PROCESSING AND CALCULATION

2. THIS EQUIPMENT SHALL BE PROPERLY MAINTAINED AND KEPT IN GOOD OPERATING CONDITION AT ALL TIMES.
[RULE 204]
3. THE TOTAL THROUGHPUT OF POLYESTER RESIN IN THIS EQUIPMENT SHALL NOT EXCEED 12,614 GALLONS IN ANY WEEK.
[RULE 1303(b)(2)-OFFSET]
4. RECORDS SHALL BE MAINTAINED TO VERIFY COMPLIANCE WITH CONDITION NO. 3. THESE RECORDS SHALL BE RETAINED ON FILE FOR AT LEAST FIVE YEARS AND SHALL BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST.
[RULE 109, 1303(b)(2)-OFFSET]
5. MATERIALS USED IN THIS EQUIPMENT SHALL NOT CONTAIN ANY TOXIC AIR CONTAMINANTS AS IDENTIFIED IN RULE 1401, TABLE 1, EXCEPT STYRENE, AS AMENDED JUNE 5, 2009 OR EARLIER.
[RULE 1401]

EMISSIONS AND REQUIREMENTS:

6. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:

VOC: RULE 109

VOC: RULE 1162, SEE APPENDIX B FOR EMISSION LIMITS

VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

HAP: 40 CFR63 SUBPART WWWW, SEE SECTION J FOR REQUIREMENTS

BACKGROUND

New Basis submitted applications to permit three storage silos, three baghouses and one resin storage tank. The applications are briefly described below.

A/N 507895 (Silo no. 1), A/N 507894 (Silo no. 2), A/N 507892 (Silo no. 3), A/N 507891 (Baghouse no. 1), A/N 507890 (Baghouse no. 2) & A/N 507889 (Baghouse no. 3):

These applications were submitted to permit three existing storage silos and three baghouses. Silos 1 and 3 store calcium carbonate while silo 2 stores sand. Silos 1 and 2 load out into the PLH and silo 3 load outs into the FRPBM. The silos are filled by a pump truck which pneumatically conveys the material through a 4 - 5" diameter pipe/hose into the top of each silo. Filling takes up to 3 hr/day, 1-2 day/wk and 50-51 wk/yr. PM10 emissions are produced during the filling of the silos and when fed into the PLH. PM10 emissions are controlled by three existing baghouses. Maximum material throughput for each silo are:

Silo	Material	Throughput (lb/mon)	Pounds Per Load	Loads Per Month
1	Cal. carbonate	850,000	57,000	14.8
2	Sand	1,300,000	55,000	23.3
3	Cal. carbonate	190,000	57,000	3.3

APPLICATION PROCESSING AND CALCULATION**A/N 493706 (Resin storage tank):**

This application was submitted to permit an existing resin storage tank. New Basis operates five storage tanks including this tank. Permits have been issued for the other storage tanks. The polyester resin throughput is 12,614 gals/wk.

New Basis is a Title V facility. A Title V renewal permit was issued to this facility on March 26, 2006. New Basis has proposed to revise their Title V renewal permit with application no. 493704 by adding three storage silos, four baghouses and one resin storage tank. The permit revision is considered as a "de minimis significant permit revision" to the Title V renewal permit, as described in Regulation XXX evaluation.

PROCESS DESCRIPTION

New Basis manufactures polymer concrete-casted underground enclosures that are used to house telephone cables, power cables, TV cables and water/turf/irrigation piping and valves. New Basis operates a variety of equipment including six spray booths, one located within a permanent total enclosure vented to an air pollution control system, mixers, auto casters and resin storage tanks. New Basis operates under a facility-wide VOC emission cap of 5,133 lb/month.

EMISSION ESTIMATES**A/N 507895 & 507891 (Silo 1 & Baghouse 1):**

Silo 1 stores calcium carbonate. The monthly material throughput is 850,000 lb/mon. PM10 emissions are estimated using an AP-42 emission factor of 2 lb PM/ton of material. PM10 emissions are assumed to be 50% of PM emissions.

Emission factor (AP-42 Pigment Mixing) = 2 lb PM/ton of material

Control efficiency = 99%

Material throughput = 850,000 lb/mon (14.2 ton/day)

Uncontrolled daily PM10 emissions = 14.2 ton/day x 2 lb/ton x 0.5 = 14.2 lb/day

Uncontrolled hourly PM10 emissions = 14.2 lb/day ÷ 3 hr/day = 4.73 lb/hr

Controlled daily PM10 emissions = 14.2 lb/day x (1 - 0.99) = 0.14 lb/day

Controlled hourly PM10 emissions = 0.14 lb/day ÷ 3 hr/day = 0.047 lb/hr

A/N 507894 & 507890 (Silo 2 & Baghouse 2):

Silo 2 stores sand. The monthly throughput is 1,300,000 lb/mon (21.7 ton/day)

Uncontrolled daily PM10 emissions = 21.7 ton/day x 2 lb/ton x 0.5 = 21.7 lb/day

Uncontrolled hourly PM10 emissions = 21.7 lb/day ÷ 3 hr/day = 7.23 lb/hr

Controlled daily PM10 emissions = 21.7 lb/day x (1 - 0.99) = 0.22 lb/day

Controlled hourly PM10 emissions = 0.22 lb/day ÷ 3 hr/day = 0.072 lb/hr

A/N 507892 & 507889 (Silo 3 & Baghouse 3):

Silo 3 stores calcium carbonate. The monthly throughput is 190,000 lb/mon (3.17 ton/day).

Uncontrolled daily PM10 emissions = 3.17 ton/day x 2 lb/ton x 0.5 = 3.2 lb/day

Uncontrolled hourly PM10 emissions = 3.2 lb/day ÷ 3 hr/day = 1.07 lb/hr

Controlled daily PM10 emissions = 3.2 lb/day x (1 - 0.99) = 0.03 lb/day

Controlled hourly PM10 emissions = 0.03 lb/day ÷ 3 hr/day = 0.01 lb/hr

A/N 493706 (Resin storage tank):

Using AQMD's "Supplemental Instructions for Liquid Organic Storage Tanks and References" (June 2005), total VOC emissions or losses from the storage tank are equal to the sum of the working loss, standing loss and process upset loss.

Total Loss (L_t):

$$L_t = L_w + L_s + L_x$$

where:

L_t = Total loss (lb/yr)

L_w = Working loss (lb/yr)

L_s = Standing loss (lb/yr)

L_x = Process upset loss (lb/yr)

Working Loss (L_w):

$$L_w = 0.024 \times M_v \times P_{va} \times Q \times K_n \times K_p$$

where:

M_v = Average vapor molecular weight (lb/lb-mole)

P_{va} = True vapor pressure at average liquid surface temp (psia)

Q = Annual throughput in 1,000 gals (Mgal/yr)

K_n = Turnover factor, calculated as follows:

If $Q/C \leq 36$, then $K_n = 1$

If $Q/C > 36$, then $K_n = \{(180 \times C) + Q\} / 6 \times Q$

C = Tank capacity (1,000 gals)

K_p = Working loss product factor

$K_p = 0.75$ (crude oil), $K_p = 1$ (other materials)

$$L_w = 0.024 \times 104.2 \times 0.085 \times 656^* \times 1 \times 1 = 139.42 \text{ lb/yr}$$

* (Annual throughput) = [(6,307 gal x 2 turnover/wk x 52 wk/yr)/(1,000)]

Standing Loss (L_s):

$$L_s = U \times V_v \times W_v \times K_e \times K_s$$

where:

U = Number of days tank is used to store liquid

V_v = Vapor space volume, calculated as follows:

$$V_v = (66.84 \times C) + V_f$$

C = Tank capacity (1,000 gals)

V_f = Vapor space function (*See Appendix 2*)

W_v = Vapor density (lb/ft³, *See Appendix 1*)

K_e = Vapor space expansion factor (*See Appendix 1*)

K_s = Vented vapor saturation factor

$$K_s = 1/[1 + (S_a \times H) + (S_b \times D)]$$

S_a = Vapor saturation function (*See Appendix 1*)

S_b = Vapor saturation function (*See Appendix 1*)

D = Tank diameter (ft)

H = Tank height (ft)

$$L_s = 365 \times 475.6 \times 0.0016 \times 0.036 \times 0.97 = 9.73 \text{ lb/yr}$$

Total Loss:

$$L_t = L_w + L_s + L_x$$

$$L_{t \text{ annually}} = 139.42 + 9.73 + 0 = 149.15 \text{ lb/yr} \quad (L_x = 0, \text{ no upset in process expected})$$

$$L_{t \text{ daily}} = 0.409 \text{ lb/day} \quad (365 \text{ day/yr})$$

$$L_{t \text{ hourly}} = 0.017 \text{ lb/hr} \quad (24 \text{ hr/day})$$

RISK ASSESSMENT

VOC emissions from the storage tank are due to styrene. Styrene is a Rule 1401 acute and chronic toxic air contaminant. The increase of styrene emissions from the storage tank are 0.017 lb/hr and 149.15 lb/yr. Tier 1 Screening Emission Levels for styrene at the most conservative receptor distance of 25 meters are 10.5 lb/hr and 29,800 lb/yr. Since estimated styrene emissions are less than the Tier 1 Screening Emission Levels, further analysis is not required and it is determined that there will not be an acute or chronic health hazard risk from permitting the resin storage tank.

RULE ANALYSIS

RULE 212 (c)(1): This section requires a public notice for all new or modified permit units that emit air contaminants located within 1,000 feet from the outer boundary of a school. The

APPLICATION PROCESSING AND CALCULATION

facility is not located within 1,000 feet of the outer boundary of a school. The closest school located to the facility is over 0.7 miles away.

RULE 212 (c)(2): This section requires a public notice for all new or modified facilities that have on-site emission increases exceeding any of the daily maximums as specified by Rule 212(g). The emission increases are both below the limits specified in Rule 212(g).

RULE 212(g): This section requires a public notice for all new or modified sources that result in emission increases exceeding any of the daily maximums as specified by Rule 212(g). The increase will not exceed these limits.

	Maximum Daily Emissions					
	ROG	NO _x	PM ₁₀	SO ₂	CO	Pb
Emission increase	0	0	0	0	0	0
MAX Limit (lb/day)	30	40	30	60	220	3
Compliance Status	Yes	Yes	Yes	Yes	Yes	Yes

RULE 212(c)(3): This section requires a public notice for all new or modified permit units with increases in emissions of toxic air contaminants listed in Table I of Rule 1401 resulting in a cancer risk equal or greater than one in a million. There are no cancerous TACs emitted from the silos, baghouse and storage tank.

RULES 401 & 402: AQMD database has no records of visible emissions or nuisance complaints against this facility within the last five years. Compliance with these requirements is expected with the proper operation of the equipment.

RULE 405: The silos will be operated in compliance with the discharged rates of this rule. PM10 emissions from the silos range from 0.003 lb/hr to 0.018 lb/hr, far below the limits.

RULE 1303:

(a): PM10 emissions from the silos are effectively controlled by the baghouses. BACT is achieved for the silos. The VOC emission increase from the storage tank is less than 1 lb/day, BACT is not required.

(b)(1): Modeling for the baghouses is not required since emissions are less than the 0.41 lb/hr limit.

(b)(2): Emission offsets are not required.

(b)(4): The facility is expected to be in full compliance with all applicable rules and regulations of the District.

APPLICATION PROCESSING AND CALCULATION

RULE 1401: The proposed project will comply with this rule, see RISK ASSESSMENT section for details.

REGULATION XXX:

This facility is not in the RECLAIM program. The proposed project is considered as a “de minimis significant permit revision” to the Title V permit for this facility.

Rule 3000(b)(6) defines a “de minimis significant permit revision” as any Title V permit revision where the cumulative emission increases of non-RECLAIM pollutants or hazardous air pollutants (HAPs) from these permit revisions during the term of the permit are not greater than any of the following emission threshold levels:

Air Contaminant	Daily Maximum (lbs/day)
HAP	30
VOC	30
NO _x	40
PM ₁₀	30
SO _x	60
CO	220

To determine if a project is considered as a “de minimis significant permit revision” for non-RECLAIM pollutants or HAPs, emission increases for non-RECLAIM pollutants or HAPs resulting from all permit revisions that are made after the issuance of the Title V renewal permit shall be accumulated and compared to the above threshold levels. This proposed project is the third permit revision to the Title V renewal permit issued to this facility on March 26, 2006. The following table summarizes the cumulative emission increases resulting from all permit revisions since the initial Title V permit was issued:

Revision	HAP	VOC	NO _x	PM ₁₀	SO _x	CO
Previous Permit Revision Total	0	0	2	0	0	1
3 rd Permit Revision: Add three silos, four baghouses and one storage tank	0	0	0	0	0	0
Net Emission Total	0	0	2	0	0	1
Maximum Daily	30	30	40	30	60	220

RECOMMENDATION:

The proposed project is expected to comply with all applicable District Rules and Regulations. Since the proposed project is considered as a “de minimis significant permit revision”, it is

APPLICATION PROCESSING AND CALCULATION

exempt from the public participation requirements under Rule 3006 (b). A proposed permit incorporating this permit revision will be submitted to EPA for a 45-day review pursuant to Rule 3003(j). If EPA does not raise any objections within the review period, a revised Title V permit will be issued to this facility.

new basis - silo - baghouse - storage tank 3rd revision