



South Coast Air Quality Management District

21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

October 22, 2013

Mr. Gerardo C. Rios
Chief, Permits Office
U. S. EPA, Region IX
75 Hawthorne Street
San Francisco, CA 94105-3901

Dear Mr. Rios:

Subject: GS Roofing Products Co. (I.D. 057094) Title V Permit Revision

GS Roofing Products Co. (I.D. 057094) has proposed to revise their Title V permit under A/N 556638 by modifying an existing asphalt oil heater (A/N 556639). This is an asphalt roofing shingles manufacturing facility located at 1431 West E. Street, Wilmington, CA 90744. This proposed permit revision is considered as a "minor permit revision" to their Title V permit. Enclosed for your review are the permit evaluation and the proposed permit. With your receipt of the proposed Title V permit revision today, we will note that the EPA 45-day review period begins on October 22, 2013.

If you have any questions or need additional information regarding the proposed permit revision, please call Manuel Quizon at (909) 396-2639.

Sincerely,

A handwritten signature in blue ink that reads "Mohan Balagopalan".

Mohan Balagopalan
Senior Manager
Mechanical, Chemical and Ports Permitting

MB:mvq
Attachments

**FACILITY PERMIT TO OPERATE
GS ROOFING PRODUCTS COMPANY, INC.**

**Facility Equipment and Requirements
(Section D)**

This section consists of a table listing all permitted equipment at the facility, facility wide requirements, all individual Permits to Construct and Permits to Operate issued to various equipment at the facility, and Rule 219-exempt equipment subject to source-specific requirements. Each permit and Rule 219-exempt equipment will list operating conditions including periodic monitoring requirements, and applicable emission limits and requirements that the equipment is subject to. Also included is the rule origin and authority of each emission limit and permit condition.

**FACILITY PERMIT TO OPERATE
 GS ROOFING PRODUCTS COMPANY, INC.**

PERMITTED EQUIPMENT LIST

THE FOLLOWING IS A LIST OF ALL PERMITS TO CONSTRUCT AND PERMITS TO OPERATE AT THIS FACILITY:

Application number	Permit to Operate number	Equipment description
157090	M57993	STORAGE TANK – ASPHALT
157094	M57986	BAGHOUSE
157113	D17219	BAGHOUSE
274378	D71281	ASPHALT OIL HEATER
302634	D99824	FILLER UNLOADING AND STORAGE SYSTEM
302635	D99930	MINERAL SURFACING UNLOADING AND STORAGE SYSTEM
336256	F27504	ASPHALT FUME ABATEMENT SYSTEM
366719	F44165	BAGHOUSE (> 500 SQ. FT. FILTER AREA)
499434	G17359	MIST ELIMINATOR
501454	G17358	ASPHALT ROOFING LINE
518799	G14545	MINERAL SURFACING UNLOADING AND STORAGE SYSTEM
542849	G23251	STORAGE TANK – WINDSEAL ASPHALT
542850	G23252	STORAGE TANK – LAMINATE ASPHALT
542851	G23253	ASPHALT FUME ABATEMENT SYSTEM
542852	G23254	ASPHALT FUME ABATEMENT SYSTEM
542853	G23256	STORAGE TANK – COATING ASPHALT
556639		ASPHALT OIL HEATER

NOTE: EQUIPMENT LISTED ABOVE THAT HAVE NO CORRESPONDING PERMITS TO OPERATE NUMBER ARE ISSUED PERMITS TO CONSTRUCT. THE ISSUANCE OR DENIAL OF THEIR PERMITS TO OPERATE IS SUBJECT TO ENGINEERING FINAL REVIEW. ANY OTHER APPLICATIONS THAT ARE STILL BEING PROCESSED AND HAVE NOT BEEN ISSUED PERMITS TO CONSTRUCT OR PERMITS TO OPERATE WILL NOT BE FOUND IN THIS TITLE V PERMIT.

**FACILITY PERMIT TO OPERATE
GS ROOFING PRODUCTS COMPANY, INC.**

FACILITY WIDE CONDITION(S)

Condition(s):

1. EXCEPT FOR OPEN ABRASIVE BLASTING OPERATIONS, THE OPERATOR SHALL NOT DISCHARGE INTO THE ATMOSPHERE FROM ANY SINGLE SOURCE OF EMISSIONS WHATSOEVER ANY AIR CONTAMINANT FOR A PERIOD OR PERIODS AGGREGATING MORE THAN THREE MINUTES IN ANY ONE HOUR WHICH IS:
 - A. AS DARK OR DARKER IN SHADE AS THAT DESIGNATED NO. 1 ON THE RINGELMANN CHART, AS PUBLISHED BY THE UNITED STATES BUREAU OF MINES; OR
 - B. OF SUCH OPACITY AS TO OBSCURE AN OBSERVER'S VIEW TO A DEGREE EQUAL TO OR GREATER THAN DOES SMOKE DESCRIBED IN SUBPARAGRAPH (A) OF THIS CONDITION. [RULE 401]
2. MATERIAL SAFETY DATA SHEETS FOR ALL MATERIALS USED AT THIS FACILITY SHALL BE KEPT CURRENT AND BE MADE AVAILABLE TO DISTRICT PERSONNEL UPON REQUEST. [1303-(b)(2)-OFFSET]
3. ALL RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED AT THE FACILITY FOR 5 YEARS AND SHALL BE MADE AVAILABLE TO ANY DISTRICT REPRESENTATIVE UPON REQUEST. [RULE 1303(B)(2)-OFFSET]

**FACILITY PERMIT TO OPERATE
GS ROOFING PRODUCTS COMPANY, INC.**

PERMIT TO OPERATE

**Permit No. M57993
A/N 157090**

Equipment Description:

STORAGE TANK, NO. 1, E-3408, ASPHALT COATING, 15'-0" DIA. X 24'-0" H., 30,000 GALLONS.

Conditions:

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 VENTED TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED AN OPERATING PERMIT BY THE AIR POLLUTION CONTROL OFFICER.
[RULE 1303(a)(1)-BACT]

Emissions And Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

**FACILITY PERMIT TO OPERATE
GS ROOFING PRODUCTS COMPANY, INC.**

PERMIT TO OPERATE

**Permit No. M57986
A/N 157094**

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. BAGHOUSE, FLEX-KLEEN, MODEL 84-WRBS-48II.
2. EXHAUST SYSTEM WITH A 7-1/2 H.P. BLOWER VENTING A 400-TON FILLER STORAGE SILO.

Conditions:

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]

Periodic Monitoring:

3. 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)]
4. THE OPERATOR SHALL DISCHARGE DUST COLLECTED IN THIS EQUIPMENT ONLY INTO CLOSED CONTAINERS.
[RULE 3004 (a)(4)]

**FACILITY PERMIT TO OPERATE
GS ROOFING PRODUCTS COMPANY, INC.**

5. 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 A SEMI-ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE SEMI-ANNUAL PERIOD. THE ROUTINE SEMI-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:

6. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
- PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

FACILITY PERMIT TO OPERATE GS ROOFING PRODUCTS COMPANY, INC.

PERMIT TO OPERATE

Permit No. D17219
A/N 157113

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. BAGHOUSE, FULLER, MODEL 64-DS-8, 4'-6" W. X 5'-5" L. X 14'-0" H.
2. EXHAUST SYSTEM WITH A 15 H.P. BLOWER VENTING A 20 TON FILLER STORAGE SILO AND A FLUIDIZED BED FILLER HEATER.

Conditions:

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. DUSTS COLLECTED IN THE BAGHOUSE SHALL BE DISCHARGED ONLY INTO CLOSED CONTAINERS.
[RULE 1303(a)(1)-BACT]

Periodic Monitoring:

4. THE OPERATOR SHALL USE THIS EQUIPMENT IN SUCH A MANNER THAT THE DIFFERENTIAL PRESSURE ACROSS THE BAGS DOES NOT EXCEED 7.0 INCHES WATER COLUMN. TO COMPLY WITH THIS CONDITION THE OPERATOR SHALL INSTALL AND MAINTAIN A PRESSURE GAUGE TO ACCURATELY INDICATE THE DIFFERENTIAL PRESSURE ACROSS THE BAGS. THE OPERATOR SHALL DETERMINE AND RECORD THE PARAMETER BEING MONITORED ONCE EVERY WEEK.
[RULE 3004 (a)(4)]
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;

FACILITY PERMIT TO OPERATE GS ROOFING PRODUCTS COMPANY, INC.

- 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 DISCHARGE DUST COLLECTED IN THIS EQUIPMENT ONLY INTO CLOSED CONTAINERS.

[RULE 3004 (a)(4)]

- 7. 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 A QUARTERLY BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE QUARTERLY PERIOD. THE ROUTINE QUARTERLY 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:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

**FACILITY PERMIT TO OPERATE
GS ROOFING PRODUCTS COMPANY, INC.**

PERMIT TO OPERATE

**Permit No. D71281
A/N 274378**

Equipment Description:

ASPHALT OIL HEATER, MAXON, MODEL NO. EBC-66SP, WITH ONE BURNER, INDUSTRIAL COMBUSTION, MODEL NO. LND-84-P, LOW NOX TYPE, 7,070,000 BTU PER HOUR, NATURAL GAS FIRED, A 7-1/2 H.P. COMBUSTION AIR BLOWER, AND FLUE GAS RECIRCULATION.

Conditions:

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 BE FIRED ON NATURAL GAS ONLY.
[RULE 1303(a)(1)-BACT]
4. THIS EQUIPMENT SHALL EMIT NO MORE THAN 40 PPM OF OXIDES OF NITROGEN (NOX) AND NO MORE THAN 400 PPM OF CARBON MONOXIDE (CO), ALL MEASURED BY VOLUME ON A DRY BASIS AT 3% O₂.
[RULE 1146]

Periodic Monitoring:

5. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NOX EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 7.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

FOR THE PURPOSE OF DETERMINING COMPLIANCE WITH RULE 1146 CONCENTRATION LIMIT, THE EMISSIONS SHALL BE MEASURED AND AVERAGED OVER A 60 MINUTE TIME PERIOD.
[RULE 3004(a)(4)]

FACILITY PERMIT TO OPERATE GS ROOFING PRODUCTS COMPANY, INC.

6. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 10.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1146 CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]

7. 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 EITHER:

- A. 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;
- B. 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
- C. 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)]

FACILITY PERMIT TO OPERATE GS ROOFING PRODUCTS COMPANY, INC.

Emissions And Requirements:

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

CO: 2000 PPMV, RULE 407
CO: 400 PPMV, RULE 1146
PM: 0.1 GR/SCF, RULE 409
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
NOX: 40 PPMV, RULE 1146

**FACILITY PERMIT TO OPERATE
GS ROOFING PRODUCTS COMPANY, INC.**

PERMIT TO OPERATE

**Permit No. D99824
A/N 302634**

Equipment Description:

FILLER UNLOADING AND STORAGE SYSTEM CONSISTING OF:

1. TRUCK UNLOADING STATION.
2. STORAGE SILO, 18'-5" DIA. X 64'-0" H., 400 TON CAPACITY, WITH A 7.5 H.P. AERATING BLOWER.

Conditions:

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 THE FILLER SILO (400-TON) IS VENTED TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AT ALL TIMES AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.
[RULE 1303(a)(1)-BACT]

Emissions And Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

**FACILITY PERMIT TO OPERATE
GS ROOFING PRODUCTS COMPANY, INC.**

PERMIT TO OPERATE

**Permit No. D99930
A/N 302635**

Equipment Description:

MINERAL SURFACING UNLOADING AND STORAGE SYSTEM CONSISTING OF:

1. TRUCK UNLOADING STATION.
2. BELT CONVEYOR, GRANULES, 1'-0" W. X 20'-0" L., 5 H.P.
3. SCREW CONVEYOR, BACKING/SLAG FINES, 0'-9" DIA. X 10'-0" L., 7.5 H.P.
4. BUCKET ELEVATOR, GRANULES.
5. BUCKET ELEVATOR, BACKING/SLAG FINES.
6. TWO STORAGE BINS, GRANULES, EACH WITH 10 COMPARTMENTS, EACH 12'-0" W. X 24'-0" L. X 16'-0" H.
7. STORAGE SILO, BACKING/SLAG FINES, 8'-0" DIA. X 21'-0" H.

Conditions:

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 THE BUCKET ELEVATOR (BACKING) AND SILO (BACKING) ARE VENTED TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AT ALL TIMES AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.
[RULE 1303(a)(1)-BACT]

FACILITY PERMIT TO OPERATE GS ROOFING PRODUCTS COMPANY, INC.

Emissions And Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

FACILITY PERMIT TO OPERATE GS ROOFING PRODUCTS COMPANY, INC.

PERMIT TO OPERATE

Permit No. F27504
A/N 336256

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. ASPHALT FUME ABATEMENT, CECO TWIN-PAK, WITH DUAL FILTER SYSTEM, PARALLEL FLOW, EACH 3'-6" DIA. X 12'-0" L.
2. EXHAUST SYSTEM WITH A 40 H.P. BLOWER VENTING A COATER, A HORIZONTAL MIXING TANK, AND A VERTICAL MIXING TANK OF THE ASPHALT ROOFING LINE.

Conditions:

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 GAUGE SHALL BE MAINTAINED SO AS TO INDICATE, IN INCHES OF WATER COLUMN, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE FILTERS.
[RULE 1303(a)(1)-BACT]
4. THE FILTER ELEMENTS SHALL BE CHANGED WHENEVER VISIBLE EMISSIONS ARE OBSERVED.
[RULE 401]

Emissions And Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

FACILITY PERMIT TO OPERATE GS ROOFING PRODUCTS COMPANY, INC.

PERMIT TO OPERATE

Permit No. F44165
A/N 366719

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. BAGHOUSE, AMERICAN AIR FILTER, PULSE JET TYPE, MODEL NO. 10-32-420, WITH 32 PLEATED FILTER BAGS, EACH 0'-5" DIA. X 10'-0" L., TOTAL FILTER AREA OF 1,248 SQ. FT.
2. EXHAUST SYSTEM WITH A 20 H.P. BLOWER VENTING THE FOLLOWING:
 - A. BUCKET ELEVATOR, BACKING.
 - B. BUCKET ELEVATOR, BLENDED GRANULES.
 - C. BUCKET ELEVATOR, GRANULE.
 - D. BUCKET ELEVATOR, RECYCLED GRANULES AND BACKING.
 - E. STORAGE SILO, BACK FINISH.
 - F. GRANULE AND BACKING APPLICATION AREA.

Conditions:

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 OF 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]

FACILITY PERMIT TO OPERATE GS ROOFING PRODUCTS COMPANY, INC.

Periodic Monitoring:

5. THE OPERATOR SHALL USE THIS EQUIPMENT IN SUCH A MANNER THAT THE DIFFERENTIAL PRESSURE ACROSS THE BAGS DOES NOT EXCEED 7 INCHES WATER COLUMN. TO COMPLY WITH THIS CONDITION THE OPERATOR SHALL INSTALL AND MAINTAIN A PRESSURE GAUGE TO ACCURATELY INDICATE THE DIFFERENTIAL PRESSURE ACROSS THE BAGS. THE OPERATOR SHALL DETERMINE AND RECORD THE PARAMETER BEING MONITORED ONCE EVERY WEEK.
[RULE 3004 (a)(4)]

6. 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)]

7. 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 A SEMI-ANNUAL BASIS, AT LEAST, UNLESS THE EQUIPMENT DID NOT OPERATE DURING THE ENTIRE SEMI-ANNUAL PERIOD. THE ROUTINE SEMI-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)]

**FACILITY PERMIT TO OPERATE
GS ROOFING PRODUCTS COMPANY, INC.**

Emissions And Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

FACILITY PERMIT TO OPERATE GS ROOFING PRODUCTS COMPANY, INC.

PERMIT TO OPERATE

Permit No. G17359
A/N 499434

Equipment Description:

AIR POLLUTION CONTROL EQUIPMENT CONSISTING OF:

1. MIST ELIMINATOR, CECO, FIBER BED FILTER, MODEL DLM-100c-C-P-F, WITH ONE FIBERGLASS FILTER, 2'- 0" DIA. X 8'- 3" H.
2. EXHAUST SYSTEM WITH A 5 H.P. BLOWER VENTING TWO LAMINANT ASPHALT APPLICATORS AND A LAMINANT ASPHALT DAY-USE TANK.

Conditions:

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 GAUGE SHALL BE INSTALLED SO AS TO INDICATE, IN INCHES OF WATER COLUMN, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE FILTER.
[RULE 1303(a)(1)-BACT; RULE 3004(a)(4)-PERIODIC MONITORING]
4. THE FILTERS IN THE CONTROL SYSTEM SHALL BE CHANGED WHENEVER VISIBLE EMISSIONS ARE OBSERVED.
[RULE 1303(a)(1)-BACT; RULE 3004(a)(4)-PERIODIC MONITORING]

Emissions And Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

**FACILITY PERMIT TO OPERATE
GS ROOFING PRODUCTS COMPANY, INC.**

PERMIT TO OPERATE

**Permit No. G17358
A/N 501454**

Equipment Description:

ASPHALT ROOFING SHINGLE MANUFACTURING SYSTEM CONSISTING OF:

1. UNWINDING STAND.
2. DRYER, ECLIPSE CORP., CUSTOM BUILT, 6'-6" W. X 6'-3" L. X 5'-0" H., RATED AT 840,000 BTU/HR TOTAL, NATURAL GAS FIRED, WITH TWO RED-RAY, MODEL F, LOW-NOX BURNERS.
3. DRY FELT FLOATING LOOPER, 13'-4" L. X 22'-6" H.
4. COATER, TWO-DRUM, 5'-0" W. X 5'-9" L. X 3'-9" H., WITH TWO 5 H.P. CIRCULATING PUMPS.
5. SLATING UNIT, 10'-0" W. X 16'-3" L. X 8'-0" H.
6. COOLING SECTION, 23'-9" L. X 8'-0" H.
7. COOLING LOOPER, 150'-0" L. X 16'-6" H.
8. CARRY OVER UNIT, 13'-7" L. X 17'-10" H.
9. LAY LINE APPLICATOR.
10. WINDSEAL APPLICATOR, WITH AN APPLICATION PAN AND DAY-USE TANK.
11. SHINGLE CUTTER (1).
12. COMBINING MACHINE (ARCH. 80) CONSISTING OF UPPER AND LOWER LAMINATING APPLICATORS, APPLICATION PAN AND A DAY-USE TANK.
13. WRAPPING MACHINE.
14. PALLETIZER.
15. COATING ASPHALT MIXING SUBSYSTEM CONSISTING OF:
 - A. MIXING TANKS, HORIZONTAL, 3'-0" DIA. X 10'-0" L., 600 GALLONS CAPACITY, WITH A 40 H.P. AGITATOR.
 - B. MIXING TANK, VERTICAL, 6'-0" DIA. X 6'-6" L., 800 GALLONS CAPACITY.
16. GRANULES AND BACKING SAND SUBSYSTEM CONSISTING OF:
 - A. SURGE BIN, BLENDED GRANULES, 20 COMPARTMENTS, 12'-0" W. X 12'-0" L. X 11'-6" H.

FACILITY PERMIT TO OPERATE GS ROOFING PRODUCTS COMPANY, INC.

- B. THREE BELT CONVEYORS (TWO BLENDED GRANULES, ONE RECYCLE).
 - C. TWO BUCKET ELEVATORS (BLENDED GRANULES & BACK FINISH).
 - D. SALVAGE SHAKER SCREEN.
17. HOT FILLER SUBSYSTEM CONSISTING OF:
- A. HOLDING SILO, 20 TONS CAPACITY, WITH A FILTER VENT.
 - B. HEATER, FLUIDIZED BED FILLER, OIL HEATED, WITH A 30 H.P. BLOWER.
 - C. TWO SCREW CONVEYORS, 7.5 H.P. EACH.
 - D. BIN, HOT FILLER, 4'-0" DIA. X 8'-2" H., 4.5 TONS CAPACITY.

Conditions:

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. THE DRYER SHALL BE FIRED ON NATURAL GAS ONLY.
[RULE 1303(a)(1)-BACT]
4. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS THE ASPHALT COATER, FLUIDIZED BED FILLER HEATER, ASPHALT MIXING TANKS, UPPER AND LOWER LAMINATING APPLICATORS AND LAMINANT DAY/USE TANK ARE VENTED TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AT ALL TIMES AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.
[RULE 1303(a)(1)-BACT]

Periodic Monitoring:

5. 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 EITHER:

FACILITY PERMIT TO OPERATE GS ROOFING PRODUCTS COMPANY, INC.

- A. 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;
- B. 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
- C. 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:

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

CO: RULE 407, 2000 PPMV
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS
PM: RULE 409, 0.1 GR/SCF

FACILITY PERMIT TO OPERATE GS ROOFING PRODUCTS COMPANY, INC.

PERMIT TO OPERATE

Permit No. G14545
A/N 518799

Equipment Description:

MINERAL SURFACING UNLOADING AND STORAGE SYSTEM CONSISTING OF:

1. TRUCK UNLOADING STATION.
2. BELT CONVEYOR, GRANULES, 1'-0" W. X 20'-0" L., 5 H.P.
3. SCREW CONVEYOR, BACKING/SLAG FINES, 0'-9" DIA. X 10'-0" L., 7.5 H.P.
4. BUCKET ELEVATOR, GRANULES.
5. BUCKET ELEVATOR, BACKING/SLAG FINES.
6. TWO STORAGE BINS, GRANULES, EACH WITH 10 COMPARTMENTS, EACH 12'-0" W. X 24'-0" L. X 16'-0" H.
7. STORAGE SILO, BACKING/SLAG FINES, 8'-0" DIA. X 21'-0" H.
8. STORAGE SILO, GRANULES, 70 TONS CAPACITY WITH TWO FILTERED VENTS.

Conditions:

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 THE BUCKET ELEVATOR (BACKING) AND SILO (BACKING) ARE VENTED TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AT ALL TIMES AND WHICH HAS BEEN ISSUED A PERMIT TO OPERATE BY THE EXECUTIVE OFFICER.
[RULE 1303(a)(1)-BACT]

**FACILITY PERMIT TO OPERATE
GS ROOFING PRODUCTS COMPANY, INC.**

Emissions And Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS

PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

**FACILITY PERMIT TO OPERATE
GS ROOFING PRODUCTS COMPANY, INC.**

PERMIT TO CONSTRUCT/OPERATE

**Permit No. G23251
A/N 542849**

Equipment Description:

STORAGE TANK, NO. 4, WINDSEAL ASPHALT, HEATED, 12' - 0" D. X 13' - 6" H., VERTICAL FIXED ROOF, 11,415 GALLONS CAPACITY.

Conditions:

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. ASPHALT STORED IN OR PUMPED INTO THIS TANK SHALL NOT EXCEED 400 DEGREES FAHRENHEIT.
[RULE 401]
4. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED AN OPERATING PERMIT BY THE AIR POLLUTION CONTROL OFFICER.
[RULE 1303(a)(1)-BACT]

Emissions And Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

**FACILITY PERMIT TO OPERATE
GS ROOFING PRODUCTS COMPANY, INC.**

PERMIT TO CONSTRUCT/OPERATE

**Permit No. G23252
A/N 542850**

Equipment Description:

STORAGE TANK, NO. 5, LAMINATE ASPHALT, HEATED, 12' - 0" D. X 13' - 6" H., VERTICAL FIXED ROOF, 11,415 GALLONS CAPACITY.

Conditions:

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. ASPHALT STORED IN OR PUMPED INTO THIS TANK SHALL NOT EXCEED 400 DEGREES FAHRENHEIT.
[RULE 401]
4. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED AN OPERATING PERMIT BY THE AIR POLLUTION CONTROL OFFICER.
[RULE 1303(a)(1)-BACT]

Emissions And Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

FACILITY PERMIT TO OPERATE GS ROOFING PRODUCTS COMPANY, INC.

PERMIT TO CONSTRUCT/OPERATE

Permit No. **G23253**
A/N 542851

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. ASPHALT FUME ABATEMENT SYSTEM, ADVANCED ENVIRONMENTAL SYSTEMS, MODEL 3341, WITH ONE FIBERGLASS MESH FILTER, 1'- 3" DIA. X 8'- 0" H.
2. EXHAUST SYSTEM WITH A 1.5 H.P. BLOWER VENTING TWO STORAGE TANKS (TANK NOS. 4 & 5).

Conditions:

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 GAUGE SHALL BE INSTALLED SO AS TO INDICATE, IN INCHES OF WATER COLUMN, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE FILTER.
[RULE 1303(a)(1)-BACT; RULE 3004(a)(4)-PERIODIC MONITORING]
4. THE FILTERS IN THE CONTROL SYSTEM SHALL BE CHANGED WHENEVER VISIBLE EMISSIONS ARE OBSERVED.
[RULE 1303(a)(1)-BACT; RULE 3004(a)(4)-PERIODIC MONITORING]

Emissions And Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

**FACILITY PERMIT TO OPERATE
GS ROOFING PRODUCTS COMPANY, INC.**

PERMIT TO CONSTRUCT/OPERATE

**Permit No. G23254
A/N 542852**

Equipment Description:

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

3. ASPHALT FUME ABATEMENT SYSTEM, ADVANCED ENVIRONMENTAL SYSTEMS, MODEL 3341, WITH ONE FIBERGLASS MESH FILTER, 1'- 3" DIA. X 8'- 0" H.
4. EXHAUST SYSTEM WITH A 1.5 H.P. BLOWER VENTING TWO STORAGE TANKS (TANK NOS. 1 & 2).

Conditions:

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 GAUGE SHALL BE INSTALLED SO AS TO INDICATE, IN INCHES OF WATER COLUMN, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE FILTER.
[RULE 1303(a)(1)-BACT; RULE 3004(a)(4)-PERIODIC MONITORING]
4. THE FILTERS IN THE CONTROL SYSTEM SHALL BE CHANGED WHENEVER VISIBLE EMISSIONS ARE OBSERVED.
[RULE 1303(a)(1)-BACT; RULE 3004(a)(4)-PERIODIC MONITORING]

Emissions And Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

**FACILITY PERMIT TO OPERATE
GS ROOFING PRODUCTS COMPANY, INC.**

PERMIT TO OPERATE

**Permit No. G23256
A/N 542853**

Equipment Description:

STORAGE TANK, NO. 2, E-3409, COATING ASPHALT, HEATED, 15'-0" DIA. X 24'-0" H., VERTICAL FIXED ROOF, 30,000 GALLONS CAPACITY.

Conditions:

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. ASPHALT STORED IN OR PUMPED INTO THIS TANK SHALL NOT EXCEED 400 DEGREES FAHRENHEIT.
[RULE 401]
4. THIS EQUIPMENT SHALL NOT BE OPERATED UNLESS IT IS VENTED ONLY TO AIR POLLUTION CONTROL EQUIPMENT WHICH IS IN FULL USE AND WHICH HAS BEEN ISSUED AN OPERATING PERMIT BY THE AIR POLLUTION CONTROL OFFICER.
[RULE 1303(a)(1)-BACT]

Emissions And Requirements:

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

PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
PM: RULE 405, SEE APPENDIX B FOR EMISSION LIMITS

FACILITY PERMIT TO OPERATE GS ROOFING PRODUCTS COMPANY, INC.

PERMIT TO CONSTRUCT

Permit No.
A/N 556639

Equipment Description:

ASPHALT OIL HEATER, MAXON, MODEL NO. EBC-66SP, WITH ONE ULTRA LOW NOX BURNER, POWER FLAME INCORPORATED, MODEL NO. NP2-G-840, 7,070,000 BTU PER HOUR, NATURAL GAS FIRED, WITH A 10 H.P. COMBUSTION AIR BLOWER.

Conditions:

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 BE FIRED ON NATURAL GAS ONLY.
[RULE 1303(a)(1)-BACT]
4. THIS EQUIPMENT SHALL EMIT NO MORE THAN 9 PPM OF NITROGEN OXIDES (NOX), CALCULATED AS NO₂, AND 50 PPM OF CARBON MONOXIDE (CO), ALL MEASURED BY VOLUME ON A DRY BASIS AT 3 PERCENT OXYGEN.
[RULE 1303(a)(1)-BACT]
5. THIS EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF RULE 1146.
[RULE 1146]
6. THE OWNER OR OPERATOR OF THIS EQUIPMENT SHALL CONDUCT SOURCE TESTS UNDER THE FOLLOWING CONDITIONS:
 - A. A SOURCE TEST SHALL BE CONDUCTED WITHIN 60 DAYS AFTER INITIAL START-UP OF THIS EQUIPMENT OR WITHIN 180 DAYS AFTER RECEIPT OF THIS PERMIT, UNLESS OTHERWISE APPROVED IN WRITING BY THE EXECUTIVE OFFICER.
 - B. THE SOURCE TESTS SHALL BE PERFORMED TO VERIFY COMPLIANCE WITH THE NOX AND CO EMISSION LIMITS SPECIFIED BY THIS PERMIT.
 - C. THE TESTS SHALL BE CONDUCTED WHILE THE ASPHALT OIL HEATER IS FIRING AT MAXIMUM, MINIMUM AND AVERAGE FIRING RATES.

FACILITY PERMIT TO OPERATE GS ROOFING PRODUCTS COMPANY, INC.

- D. A WRITTEN NOTICE OF THE SOURCE TESTS SHALL BE SUBMITTED TO THE DISTRICT AT LEAST 10 DAYS PRIOR TO TESTING SO THAT AN OBSERVER MAY BE PRESENT.
- E. TWO COMPLETE COPIES OF SOURCE TEST REPORTS SHALL BE SUBMITTED TO THE DISTRICT WITHIN 45 DAYS AFTER THE TEST. THE REPORT SHALL INCLUDE, BUT NOT BE LIMITED TO EMISSIONS RATES IN POUNDS PER HOUR AND CONCENTRATIONS IN PPMV AT THE OUTLET OF THE ASPHALT OIL HEATER, MEASURED ON A DRY BASIS AT 3% OXYGEN. THE FOLLOWING OPERATING DATA SHALL ALSO BE INCLUDED FOR EACH FIRING RATE:
- I. THE EXHAUST FLOW RATES, IN ACTUAL CUBIC FEET PER MINUTE (ACFM),
 - II. THE FIRING RATES, IN BTU PER HOUR,
 - III. THE EXHAUST TEMPERATURE, IN DEGREE F,
 - IV. THE OXYGEN CONTENT OF THE EXHAUST GASES, IN PERCENT, AND
 - V. THE FUEL FLOW RATE.
- F. THE TEST SHALL BE CONDUCTED BY A TESTING LABORATORY CERTIFIED BY THE CALIFORNIA AIR RESOURCES BOARD IN THE REQUIRED TEST METHODS FOR CRITERIA POLLUTANT TO BE MEASURED, AND IN COMPLIANCE WITH RULE 304 (NO CONFLICT OF INTEREST).
- G. SAMPLING FACILITIES SHALL COMPLY WITH THE DISTRICT GUIDELINES FOR CONSTRUCTION OF SAMPLING AND TESTING FACILITIES, PURSUANT TO RULE 217.
[RULE 1303(a)(1)-BACT]

Periodic Monitoring:

7. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE NOX EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 7.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1303(a)(1) CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.

FOR THE PURPOSE OF DETERMINING COMPLIANCE WITH RULE 1303(a)(1) CONCENTRATION LIMIT, THE EMISSIONS SHALL BE MEASURED AND AVERAGED OVER A 60 MINUTE TIME PERIOD.

[RULE 3004(a)(4)]

FACILITY PERMIT TO OPERATE GS ROOFING PRODUCTS COMPANY, INC.

8. THE OPERATOR SHALL DETERMINE COMPLIANCE WITH THE CO EMISSION LIMIT(S) EITHER BY: (a) CONDUCTING A SOURCE TEST AT LEAST ONCE EVERY FIVE YEARS USING AQMD METHOD 100.1 OR 10.1; OR (b) CONDUCTING A TEST AT LEAST ANNUALLY USING A PORTABLE ANALYZER AND AQMD-APPROVED TEST METHOD. THE TEST SHALL BE CONDUCTED WHEN THE EQUIPMENT IS OPERATING UNDER NORMAL CONDITIONS TO DEMONSTRATE COMPLIANCE WITH RULE 1303(a)(1) CONCENTRATION LIMIT. THE OPERATOR SHALL COMPLY WITH ALL GENERAL TESTING, REPORTING, AND RECORDKEEPING REQUIREMENTS IN SECTIONS E AND K OF THIS PERMIT.
[RULE 3004 (a)(4)]

9. 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 EITHER:

- D. 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;
- E. 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
- F. 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:

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

FACILITY PERMIT TO OPERATE GS ROOFING PRODUCTS COMPANY, INC.

Emissions And Requirements:

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

CO: 2000 PPMV, RULE 407
CO: 50 PPMV, RULE 1303(a)(1)
CO: 400 PPMV, RULE 1146
PM: 0.1 GR/SCF, RULE 409
PM: RULE 404, SEE APPENDIX B FOR EMISSION LIMITS
NOX: 9 PPMV, RULE 1303(a)(1)
NOX: 40 PPMV, RULE 1146

**FACILITY PERMIT TO OPERATE
GS ROOFING PRODUCTS COMPANY, INC.**

RULE 219 EQUIPMENT

Equipment Description:

RULE 219 EXEMPT EQUIPMENT, INKJET PRINTERS.

Emissions And Requirements:

1. THIS EQUIPMENT IS SUBJECT TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING RULES AND REGULATIONS:
VOC: RULE 1171, SEE APPENDIX B FOR EMISSION LIMITS

ENGINEERING DIVISION

4

1

APPLICATION PROCESSING AND CALCULATIONS

APPL. NO.
see pg 1DATE
10/19/13PROCESSED BY
M QUIZON

CHECKED BY

PERMIT TO CONSTRUCT

GS ROOFING PRODUCTS COMPANY, INC./CERTAIN TEED
1431 WEST E STREET
WILMINGTON, CA 90744

EQUIPMENT DESCRIPTION**APPLICATION NO. 556638**

TITLE V FACILITY PERMIT REVISION APPLICATION.

APPLICATION NO. 556639

ASPHALT OIL HEATER, MAXON, MODEL NO. EBC-66SP, WITH ONE ULTRA
LOW NOX BURNER, POWER FLAME INCORPORATED, MODEL NO. NP2,
7,070,000 BTU PER HOUR, NATURAL GAS FIRED, WITH A 10 H.P.
COMBUSTION AIR BLOWER.

HISTORY

Application No. 556638 was filed on 10/13/13 for a TITLE V facility permit revision.

Application No. 556639 was filed on 10/13/13 for modification of an existing asphalt oil heater operating under permit to operate D71281 (A/N 274378). The modification is to replace the existing burner with an Ultra Low NOX burner. The new burner will have the same rating of 7.07 MMBTU/hr as the existing burner. The existing asphalt oil heater permit limits the NOX emissions to 40 ppm @ 3% O₂ and CO emissions to 400 ppm @ 3% O₂. With the new burner, the asphalt oil heater permit will limit the NOX emissions to 9 ppm @ 3% O₂ and CO emissions to 50 ppm @ 3% O₂ to comply with BACT requirement.

PROCESS DESCRIPTION

The company is in the business of manufacturing asphalt roofing. The asphalt oil heater is used to heat the asphalt storage tanks which stores heated asphalt products (laminates, wind seal and coating) used in the manufacturing of asphalt roofing products.

CALCULATION

- 1) Operating Schedule: 24 hrs/day, 7 days/wk, 52 wks/year
- 2) Boiler rating = 7.07 MMBTU/hr
- 3) Maximum fuel usage = 6,733.33 ft³/hr

Emissions from combustion of natural gas;

Except for NOX and CO, emission factors from District Form B-1 will be used to calculate emissions due to combustion of natural gas. NOX and CO emissions will be calculated using the BACT limit and manufacturer guarantee of 9 ppm @ 3% O₂ maximum and 50 ppm @ 3% O₂ maximum. The company will be required to perform a source test to show compliance.

$$\begin{aligned} \text{ROG} &= 5.5 \text{ lbs}/10^6 \text{ - ft}^3 \times 6,733.33 \text{ ft}^3/\text{hr} = 0.04 \text{ lb/hr} \\ &= 0.04 \text{ lb/hr} \times 24 \text{ hrs/day} = 0.96 \text{ lb/day} \\ &= 0.96 \text{ lb/day} \times 7 \text{ days/wk} \times 52 \text{ wks/yr} = 349 \text{ lbs/yr} \end{aligned}$$

$$\begin{aligned} \text{PM}_{10} &= 7.6 \text{ lbs}/10^6 \text{ - ft}^3 \times 6,733.33 \text{ ft}^3/\text{hr} = 0.05 \text{ lb/hr} \\ &= 0.05 \text{ lb/hr} \times 24 \text{ hrs/day} = 1.2 \text{ lbs/day} \\ &= 1.2 \text{ lbs/day} \times 7 \text{ days/wk} \times 52 \text{ wks/yr} = 437 \text{ lbs/yr} \end{aligned}$$

$$\begin{aligned} \text{SOX} &= 0.6 \text{ lb}/10^6 \text{ - ft}^3 \times 6,733.33 \text{ ft}^3/\text{hr} = 0.004 \text{ lb/hr} \\ &= 0.004 \text{ lb/hr} \times 24 \text{ hrs/day} = 0.096 \text{ lb/day} \\ &= 0.096 \text{ lb/day} \times 7 \text{ days/wk} \times 52 \text{ wks/yr} = 35 \text{ lbs/yr} \end{aligned}$$

$$\begin{aligned} \text{Stack Flow} &= 6,733.33 \text{ ft}^3/\text{hr} \times 1050 \text{ BTU}/\text{ft}^3 \times 8,710 \text{ ft}^3/10^6 \text{ BTU} \times 20.9/20.9 - 3\% \text{ O}_2 \\ &(@ 3\% \text{ O}_2) = 71,900.28 \text{ ft}^3/\text{hr} \end{aligned}$$

$$\begin{aligned} \text{NOX} &= 71,900.28 \text{ ft}^3/\text{hr} \times 9 \text{ ppmv} \times 1.195 \times 10^{-7} = 0.077 \text{ lb/hr} \\ &= 0.077 \text{ lb/hr} \times 24 \text{ hrs/day} = 1.848 \text{ lbs/day} \end{aligned}$$

$$= 1.848 \text{ lbs/day} \times 7 \text{ days/wk} \times 52 \text{ wks/yr} = 673 \text{ lbs/yr}$$

$$\begin{aligned} \text{CO} &= 71,900.28 \text{ ft}^3/\text{hr} \times 50 \text{ ppmv} \times 7.27 \times 10^{-8} = 0.26 \text{ lb/hr} \\ &= 0.26 \text{ lb/hr} \times 24 \text{ hrs/day} = 6.24 \text{ lbs/day} \\ &= 6.24 \text{ lbs/day} \times 7 \text{ days/wk} \times 52 \text{ wks/yr} = 2,271 \text{ lbs/yr} \end{aligned}$$

RULE EVALUATION

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.

No public notice is required since the nearest school from this facility is approximately 2,112 feet.

(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 proposed project will not result in any emission increase for the entire facility. A Rule 212(c) (2) notice will not be triggered since there is no emission increase from this facility.

(c)(3): This section requires a public notice for all new or modified permit unit with increases in emissions of toxic air contaminants listed in Table I of Rule 1401 resulting in MICR greater than 1E-6 per permit unit or greater than 10E-6 per facility.

The proposed project will not result in any emission increase of toxic emissions associated with the operation. Therefore Public Notice is not required under this section of the rule.

(g): Project emissions < threshold.

RULE 219 No exempt equipment in this project.

RULE 401 No visible emission is expected with proper operation of the equipment.

RULE 402 No nuisance is expected with proper operation of the equipment.

RULE 404 Equipment is expected to operate in compliance.

RULE 405 Equipment is expected to operate in compliance.

REG XIII/XX The revised version of Reg. XIII (eff. 4/20/01) is applicable.

OFFSET: As shown on the above calculations, the installation of the new burner will result in a net emission decrease for NOX and CO and will result

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

ENGINEERING DIVISION

APPLICATION PROCESSING AND CALCULATIONS

PAGES	PAGE
4	4
APPL. NO. see pg 1	DATE 10/19/13
PROCESSED BY M QUIZON	CHECKED BY

in no change in emission for ROG, PM10 and SOX, therefore no offset is required.

BACT: The asphalt oil heater's new ultra LOW NOX burner NOX emissions of 9 ppmv at 3% O₂ and CO emissions of 50 ppm or lower @ 3% O₂ is BACT for this type of process.

MODELING: As shown on the above calculation, the installation of the new burner will result in a net emission decrease for NOX and CO and will result in no change in emission for ROG, PM10 and SOX, therefore no modeling is required.

RULE 3000 As shown on the above calculation, the installation of the new burner will result in a net emission decrease for NOX and CO and will result in no change in emission for ROG, PM10 and SOX, therefore, the modification to the Title V permit is a minor permit revision.

RECOMMENDATION

Issue permits to construct with conditions.