

APPL. NO. 522016**ENGINEERING AND COMPLIANCE DIVISION****PROCESSED BY: R. Singh
CHECKED BY:****APPLICATION PROCESSING AND CALCULATION****DATE: 06/11/11****PERMIT TO CONSTRUCT/OPERATE EVALUATION****Applicant's Name****S.A. RECYCLING LLC****Company I.D.****153095****Mailing Address****3200 EAST FRONTERA ST., ANAHEIM, CA 92806****Equipment Address****3200 EAST FRONTERA ST., ANAHEIM, CA 92806****EQUIPMENT DESCRIPTION:**

AIR POLLUTION CONTROL SYSTEM CONSISTING OF:

1. DUST COLLECTOR, DONALDSON-TORIT, MODEL DLMC-4/8/15, WITH 256 FILTER BAGS, 4134 SQ. FT. TOTAL FILTER AREA, AND PULSE JET CLEANING.
2. EXHAUST SYSTEM WITH A 75 HP. BLOWER, VENTING CYCLONE VSB1 OF THE STEEL RECOVERY SUBSYSTEM.

BACKGROUND:

This is a Title V facility, engaged in scrap metal shredding including scrap automobiles, scrap appliances, metal pipes, metal drums, and metal machinery. This application was submitted on 5/4/11 for a dust collector that will control emissions from the steel recovery subsystem in the existing Material Recovery Plant (MRP) operating under PO # G6281 (A/N 482318). The exhaust from cyclone VSB1 in the steel recovery subsystem of the MRP will be vented to this dust collector. Addition of this dust collector will reduce particulate emission resulting in improved indoor air quality for worker comfort. The applicant requested expedited permit processing for this application.

A check on the compliance data did not show any open violations. The facility is in an industrial area and there are no schools within 1000 feet of this facility.

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PROCESS DESCRIPTION:

The incoming scrap is shredded and the ferrous material is magnetically separated. The non-ferrous material is further processed through the Material Recovery Plant (MRP) to recover any remaining metals. The proposed dust collector will vent the cyclone in the steel recovery subsystem in the MRP. The purpose of installing this dust collector is to reduce particulate emissions, resulting in improved indoor air quality for worker comfort.

OPERATING SCHEDULE:

Maximum: 24 hrs per day, 7 days per week, 52 weeks per year

Average: 16 hrs per day, 7 days per week, 52 weeks per year

EMISSION CALCULATIONS:

This is air pollution control equipment venting a steel recovery line in the MRP. Addition of this dust collector will reduce PM emissions from this line.

Filter Area = 4134 sq ft
 Blower capacity = 27,000 scfm
 Air-to-Cloth Ratio = Blower CFM / Filter Area
 = 27,000 scfm / 4134 sq. ft.
 = 6.5:1 – ok (within ARB guidelines)

RULES:

- RULE 212 The facility is not located within 1000 feet of a school. Rule 1401 risk will not be greater than one in a million. There is no increase in emissions as a result of installation of this equipment and will not exceed the limits in section (g) of this rule. Therefore, a public notice is not required.
- RULE 401 Visible emissions are not expected with proper maintenance and operation of this equipment. Compliance is expected.
- RULE 402 Operation of this equipment is not expected to create a nuisance. Compliance is expected.
- RULE 404 Proper operation of this air pollution control equipment is expected to reduce PM emissions to acceptable levels. Compliance is expected.
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RULE 1155 This is a Tier 2 dust collector (filter area > 500 – 7500 sq ft). This rule requires once-a-week visible emissions monitoring and record keeping. Compliance is expected

REG. XIII New Source Review:

Installation of this air pollution control equipment does not result in an increase in emissions. Therefore, REG XIII review is not required under this rule.

RULE 1401 Review of Toxic Air Contaminants
This is air pollution control equipment which will reduce emissions from the basic equipment. No increase in health risk is expected from this equipment. Compliance is expected.

CONCLUSIONS/RECOMMENDATIONS:

The equipment is expected to comply with all applicable AQMD rules and regulations. Issue PO subject to permit conditions listed below:

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 AND MAINTAINED AT THE DUST COLLECTOR TO INDICATE, IN INCHES OF WATER COLUMN, THE STATIC PRESSURE DIFFERENTIAL ACROSS THE BAGS. THE TOTAL STATIC PRESSURE DIFFERENTIAL ACROSS THE DUST COLLECTOR SHALL REMAIN BETWEEN 2.5 AND 7.5 INCHES OF WATER COLUMN DURING NORMAL OPERATION.
[RULE 404]
4. DUST COLLECTED IN THE DUST COLLECTOR SHALL BE DISCHARGED ONLY INTO ENCLOSED CONTAINERS OR RETURNED TO THE PROCESS AND SHALL NOT BE HANDLED IN A MANNER THAT MAY RESULT IN THE RE-RELEASE OF COLLECTED MATERIAL TO THE ATMOSPHERE.
[RULE 404]

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5. THIS EQUIPMENT SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF AQMD RULE 1155. [RULE 1155]
6. RECORDS SHALL BE MAINTAINED TO SHOW COMPLIANCE WITH RULE 1155 REQUIREMENT OF EMISSIONS MONITORING AND RECORD KEEPING. RECORDS SHALL BE PREPARED IN A FORMAT WHICH IS ACCEPTABLE TO THE DISTRICT, RETAINED AT THE FACILITY FOR A MINIMUM OF FIVE YEARS, AND MADE AVAILABLE TO ANY DISTRICT REPRESENTATIVE UPON REQUEST.
[RULE 3004 (a) (4)]

Periodic and Compliance Assurance Monitoring:

7. 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)]

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.
RULE 405, SEE APPENDIX B FOR EMISSION LIMITS.
RULE 1155, PARTICULAR MATTER CONTROL DEVICES.