



South Coast Air Quality Management District

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

May 7, 2014

Mr. Gerardo C. Rios
Chief, Permits Office
U.S. EPA Region IX AIR 3
75 Hawthorne Street
San Francisco, CA 94105-3901

Dear Mr. Rios:

Subject: 3M Company – ID 800088
Title V/RECLAIM Permit Revision (A/N 559260)

3M Company (ID 800088) has proposed to revise their Title V/RECLAIM permit by modification of fuel storage and dispensing system to comply with updated SCAQMD Rule 461 requirements. The changes are summarized below:

Equipment	Device No.	Application No.	Permit Type
Fuel Storage and Dispensing	D378, D379	559261	PO

3M company produces roofing granules and is located at 18750 Minnesota Road, Corona, CA. The proposed permit revision is a “de minimis significant permit revision” to their Title V Permit. Attached for your review are the evaluation and proposed permit for this revision. With your expected receipt of the proposed Title V permit revision today, we note that the EPA 45-day review period begins on May 7, 2014.

If you have any questions or need additional information regarding the proposed permit revision, please contact Mr. Richard H. Hawrylew at (909) 396-2657.

Sincerely,

Mohan Balagopalan
Senior Manager
Chemical, Mechanical, and Ports Permitting

MB:rh
Enclosure

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EVALUATION FOR PERMIT TO CONSTRUCT/OPERATE**APPLICANT'S NAME:** 3M COMPANY**MAILING ADDRESS:** 18750 MINNESOTA RD , ATTN ROBERTA REED
CORONA, CA 92881**EQUIPMENT ADDRESS:** 18750 MINNESOTA RD, CORONA, CA 92881**EQUIPMENT DESCRIPTION:**

Fuel Storage and Dispensing Facility Consisting of:

- 1) 1 - GASOLINE ABOVEGROUND STORAGE TANK, CONTAINMENT SOLUTIONS HOOVER VAULT (VR-301-E), RECTANGULAR, 6' - 8" L. X 4' - 7" W. X 3' - 9" H., 500 GALLON CAPACITY, EQUIPPED WITH A HUSKY 5885 PRESSURE/VACUUM RELIEF VALVE, AND A MORRISON BROTHERS PHASE I ENHANCED VAPOR RECOVERY (EVR) SYSTEM (VR-402-B).
- 2) 1 - GASOLINE NOZZLE DISPENSING 1 PRODUCT, EQUIPPED WITH PHASE II VAPOR RECOVERY SYSTEM, BALANCE RETRACTOR (G-70-52-AM).

BACKGROUND HISTORY:*REVISED TO APRIL 30, 2014, BASED ON
2/21/14 E-MAIL FROM R. REED.*

This application was submitted for an alteration on 12/19/2013. The planned installation date will be 02/10/2014. The alteration involves the retrofit of the existing Phase I vapor recovery system with a Morrison Brothers Phase I EVR system. The facility's proposed normal operating schedule is as follows: 24 hours/day, 7 days/week, 30 days/month and 52 weeks/year. This is a commercial gasoline storage and dispensing facility. The facility has received 13 Notices to Comply (A13450, A21022, A23347, A26222, C62986, C70144, C70150, C70171, C71325, D14800, D19805, E05238, and E05263) and 7 Notices of Violation (P13794, P13869, P15174, P15200, P17465, P25597, and P47987) from the District. This application was not submitted as a result of a notice. The applicant has since remedied these notices. An application, A/N 423119 was previously filed with the District for this equipment.

PROCESS DESCRIPTION:

The gasoline storage and dispensing facility is used to store and dispense one grade of gasoline. This facility is equipped with CARB certified Phase I and Phase II vapor controls, which complies with Rule 461. Furthermore, these vapor controls are considered to be T-BACT, which complies with Rule 1401. Finally, the project will not result in a net emission increase and thus will comply with Reg. XIII.

EMISSION CALCULATIONS:

The hydrocarbon and benzene emissions from storage tank filling and motor vehicle refueling operations are estimated by using appropriate emission factors summarized in the following table. These emission factors were developed by the Districts Planning Division.

I. Emission Factors and Control Efficiencies

The following table summarizes the uncontrolled ROG emission factors in pounds per 1,000 gallons of gasoline throughput, benzene, ethylbenzene and naphthalene content of gasoline, and control efficiencies:

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Emission Factors and Control Efficiencies for Aboveground Tanks

	Loading (a)	Breathing	Refueling (b)	Spillage
ROG				
Uncontrolled ROG Emission Factors (lbs/1000 gal)	8.40	0.21	3.95	0.24 (c)
Control Efficiency	95.000%	75.000%	94.732%	0%
controlled ROG Emission Factors (lbs/1000 gal)	0.420	0.053	0.208	0.240
Toxic Air Contaminants (TACs) wt% (d)				
Benzene	0.300%	0.300%	0.300%	1.000%
Naphthalene	0%	0%	0%	0.140%

- (a) Revised from 90% assumed by CAPCOA to 95% based on SCAQMD's finding
- (b) Revised from 99% assumed by CAPCOA to ~95% based on SCAQMD's finding.
- (c) Spillage emission factor was revised from 0.42 to 0.24 based on EVR Regulation.
- (d) Specification profiles for TACs are from <http://www.arb.ca.gov/ei/speciate/speciate.htm>

II. MICR Calculations

The following equations are used for calculating ROG emissions and MICR from gasoline dispensing operations.

Net Increased Throughput = Proposed throughput - Total permitted throughput prior to the modification or average throughput for the last two years

ROG, uncontrolled = EF (lbs-ROG/1,000 gals gas) x Proposed gas throughput (1,000 gals/month)

ROG, controlled = ROG, uncontrolled x Control Efficiency

Benzene, uncontrolled = ROG, uncontrolled x Benzene Content in gasoline

Benzene, controlled = ROG, controlled x Benzene Content in gasoline

Naphthalene, uncontrolled = ROG, uncontrolled x Naphthalene Content in gasoline

Naphthalene, controlled = ROG, controlled x Naphthalene Content in gasoline

Total Emission Increase - Aboveground Tanks

Proposed GA Throughput (Gals/Month)	500
Average GA Throughput (Gals/Month)	500
Net GA Throughput (Gals/Month)	0

The Total Emissions are as follows:

Emission (lbs/month)		Process Type				Total ROG
		Loading	Breathing	Refueling	Spillage	
ROG	R1	4.200	0.106	1.974	0.120	6.400
	R2	0.210	0.027	0.104	0.120	0.461
Benzene	R1	0.013	0.000	0.006	0.000	0.019
	R2	0.000	0.000	0.000	0.000	0.000
Naphthalene	R1	0.000	0.000	0.000	0.000	0.000
	R2	0.000	0.000	0.000	0.000	0.000

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III. Summary of Emissions

	Total ROG		Total Benzene Ethyl Benzene & Naphthalene	
	R1	R2	R1	R2
Monthly (lb/mo)	6.40	0.46	0.020	0.000
30-day average (lb/day)	0.21	0.02	0.000	0.000
Hourly (lb/hr)	0.01	0.00	0.000	0.000

CANCER RISK ASSESSMENT:

From gasoline storage and dispensing operations, benzene is the only toxic emittant that has significant effect to the maximum individual cancer risk (MICR). Using the CAPCOA provided risk values, the staff in the District's Planning Division prepared reference MICR's for different scenarios, i.e., for underground and aboveground tanks, and for residence and workers. These MICR's are tabulated for different downwind distances from a permit unit that is located in West LA with annual gasoline throughput of one million gallons.

Once a reference MICR is determined for a given downwind distance, it has to be adjusted by using the MET factor to reflect the meteorological conditions of a permit unit's location and the actual fuel throughput of a permit unit.

The following is the parameters used for calculating the MICR for this application. The distances are from the center of emission source to the nearest receptor areas:

Tank Type	= Aboveground
GA Throughput (MMGals-GA/Year)	= 0
Facility Zone	= 22
MET Factor	= 0.91
Downwind Distance to Residence (Meters)	= 152
Downwind Distance to Workers (Meters)	= 152

A reference MICR is determined for a given downwind distance in the following manner:

1. If the downwind distance is less than or equal to minimum pre-defined distance, use the MICR at the minimum distance.
2. If the downwind distance is greater than or equal to maximum pre-defined distance, use the MICR at the maximum distance.
3. Find MICRs two distances, i.e., one for nearest higher distance and the other one for nearest lower distance, and interpolate them.

$$\text{MICR, ref} = \text{MICR, low} + [(\text{MICR, high} - \text{MICR, low}) / (\text{High Distance} - \text{Low Distance})] * (\text{Downwind Distance} - \text{Low Distance})$$

where,

MICR, ref	Reference MICR at a given downwind distance
MICR, low	MICR at a lower interpolate distance
MICR, high	MICR at a higher interpolate distance
Low Distance	Lower interpolate distance
High Distance	Higher interpolate distance
Downwind Dist	Given downwind distance

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MICR - Aboveground Tanks

MICR for Residences

Reference MICR [in-a-million / (1 MMGal-GA/Year)]
= 0.165

Adjusted MICR (in-a-million)

= (Reference MICR) x (MET factor) x (Annual Fuel Throughput)
= 0.165 x 0.91 x 0 = 0

MICR for Workers

Reference MICR [in-a-million / (1 MMGal-GA/Year)]
= 0.032

Adjusted MICR (in-a-million)

= (Reference MICR) x (MET factor) x (Annual Fuel Throughput)
= 0.032 x 0.91 x 0 = 0

Modeling Assumptions:

The modeling assumes the generic station operates 24 hours/day, with 80% of the emissions occurring between 6:00 AM and 8:00 PM, and the remaining 20% of the emissions occurring between 8:00 PM and 6:00 AM. In addition, the refueling and spillage emissions were modeled as volume sources and the loading and breathing emissions as point sources.

Risk Calculations:

The revised risk calculation for 1,000,000 gallons a year throughput for the different distances (20, 25, 30.....1000 meters) are based on the inhalation cancer potency factor of 0.1/(mg/kg-day) for benzene, 0.0087/(mg/kg-day) for ethyl benzene, and 0.12/(mg/kg-day) for naphthalene.

RULES EVALUATION:**Rule 212**

There is no school located within 1,000-feet from this facility. The maximum individual cancer risk is less than ten-in-one million. Public notice is exempt.

Rule 461

The gasoline tank will be equipped with CARB certified Phase I vapor controls and will be installed per CARB executive order VR-402. The tank will also be equipped with a submerged fill tube and a pressure vacuum relief valve. The nozzle serving the gasoline tank was equipped with CARB certified Phase II vapor controls and was installed per CARB executive order G-70-52. Therefore, this facility complies with Rule 461.

Rule 1170

The facility does not have any underground storage tanks. Therefore, it is exempted from the provisions of this rule.

Rule 1401

The alteration will not result in a net toxic emission increase and therefore is exempt from further rule evaluation per section (g)(1)(B). The facility complies with this rule.

Rule 1401.1

The rule DOES NOT apply as facility is an existing facility.

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Rule REGXIII

No net emission increase. BACT and Offset are not required. No modeling required for VOCs. Complies with Rule. This facility complies with Rule 1313 since the operator has installed both Phase I and Phase II vapor recovery equipment, which meets current BACT requirements. Furthermore, this facility will not have a maximum monthly gasoline throughput condition since this facility has been in continuous operation prior to the adoption of this rule.

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Reference MICR Chart - Above Ground Tanks

MICR for Residential Areas - Above Ground Tanks per One Million Gallons for Gasoline

Dist(m)	20	25	30	40	50	60	70	75	80	90
MICR	5.440	3.896	2.931	1.823	1.249	0.919	0.706	0.622	0.559	0.452

Dist(m)	100	125	150	175	200	250	300	350	400	450
MICR	0.372	0.242	0.169	0.120	0.091	0.058	0.044	0.032	0.026	0.021

Dist(m)	500	600	700	800	900	1000				
MICR	0.018	0.013	0.010	0.008	0.007	0.006				

MICR for Commercial Areas - Above Ground Tanks per One Million Gallons for Gasoline

Dist(m)	20	25	30	40	50	60	70	75	80	90
MICR	1.062	0.761	0.572	0.356	0.244	0.179	0.138	0.121	0.109	0.088

Dist(m)	100	125	150	175	200	250	300	350	400	450
MICR	0.073	0.047	0.033	0.024	0.018	0.011	0.008	0.006	0.005	0.004

Dist(m)	500	600	700	800	900	1000				
MICR	0.003	0.003	0.002	0.002	0.001	0.001				

MET Factors for Facility Zones (Aboveground Tanks)

Zone	01	02	03	04	05	06	07	08	09	10	11	12
MET	0.86	1.00	0.90	1.05	0.80	0.95	0.89	1.04	1.04	1.14	0.80	1.18

Zone	13	15	16	17	18	19	20	21	22	23	24	25
MET	0.70	0.70	0.96	0.90	1.08	0.70	1.08	0.70	0.91	0.91	0.81	0.79

Zone	26	27	28	29	30	31	32	33	34	35	36	37
MET	0.79	0.79	0.81	0.83	1.00	1.00	1.04	1.04	1.06	1.36	1.04	1.01

Zone	38	39										
MET	1.36	0.00										

CONCLUSION & RECOMMENDATIONS:

This application is expected to comply with all applicable District Rules and Regulations. A Permit to Construct/Operate is recommended subject to the conditions as outlined in the sample permit.

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: COLORED ROOFING GRANULE PRODUCTION					
System 3: RAW MATERIAL CRUSHING AND DRYING					S20.1
FEEDER, VIBRATING, AGGREGATE A/N: 322537	D32			PM: (9) [RULE 405, 2-7-1986]	A103.1, D323.1
FEEDER, VIBRATING, AGGREGATE A/N: 322537	D33			PM: (9) [RULE 405, 2-7-1986]	A103.1, D323.1
CONVEYOR, BELT, NO. 3, AGGREGATE A/N: 322537	D34			PM: (9) [RULE 405, 2-7-1986]	A103.1, D323.1
DRYER, ROTARY, NO. 1, NATURAL GAS, WITH LOW NOX BURNER, 35 MMBTU/HR WITH A/N: 322537 BURNER, NATURAL GAS, NORTH AMERICAN MANUFACTURING CO., MODEL 4213-22-LEX, WITH LOW NOX BURNER, 35 MMBTU/HR	D36	C39	NOX: LARGE SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 38 PPMV NATURAL GAS (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 405, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	C1.2, C1.3, D323.1
BUCKET ELEVATOR, NO. 11 A/N: 322537	D37	C39		PM: (9) [RULE 405, 2-7-1986]	D323.1
BUCKET ELEVATOR, NO. 11A A/N: 322537	D347	C39		PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, NO. 1, AGGREGATE, HEIGHT: 31 FT ; DIAMETER: 22 FT 8 IN A/N: 322537	D38	C40		PM: (9) [RULE 405, 2-7-1986]	D323.1
CYCLONE, HEIGHT: 15 FT ; DIAMETER: 5 FT A/N: 323941	C39	D36 D37 C40 D347 D353 D354			E102.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: COLORED ROOFING GRANULE PRODUCTION					
BAGHOUSE, NO. 7, ICA, MODEL SIXE 625-6, NOMEM BAGS, 3750 SQ.FT.; 240 BAGS A/N: 323941	C40	D38 C39		PM: (9) [RULE 404, 2-7-1986]	D12.1, D322.1, D381.1, E102.1, E193.1, K67.2
System 4: DRIED ROCK CRUSHING AND SCREENING					
BUCKET ELEVATOR, NO. 1 A/N: 326718	D42	C68		PM: (9) [RULE 405, 2-7-1986]	D323.1
SCREEN, CLASSIFYING, CLASSIFYING, NO. 1, AGGREGATE A/N: 326718	D43	C329		PM: (9) [RULE 405, 2-7-1986]	D323.1
SCREEN, CLASSIFYING, CLASSIFYING, NO. 2, AGGREGATE A/N: 326718	D44	C329		PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, SURGE, NO. 1 A/N: 326718	D45	D58 C68		PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, SURGE, NO. 2 A/N: 326718	D46	D51		PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, SURGE, NO. 3 A/N: 326718	D47	C329		PM: (9) [RULE 405, 2-7-1986]	
BIN, SURGE, NO. 4 A/N: 326718	D48	C329		PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, SURGE, NO. 5 A/N: 326718	D49	C329		PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, SURGE, NO. 6 A/N: 326718	D50	C329		PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, SURGE, NO. 7, CRUSHER FEED A/N: 326718	D51	D46 D52 C68 D69		PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, SURGE, NO. 8, CRUSHER FEED A/N: 326718	D52	D51		PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, SURGE, NO. 9 A/N: 326718	D54	D53		PM: (9) [RULE 405, 2-7-1986]	D323.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: COLORED ROOFING GRANULE PRODUCTION					
BIN, SURGE, NO. 10 A/N: 326718	D55	D53		PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, SURGE, NO. 11 A/N: 326718	D56	D53		PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, SURGE, NO. 12 A/N: 326718	D57	D53		PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, SURGE, NO. 13, CRUSHER FEED A/N: 326718	D58	D45 D87 D330		PM: (9) [RULE 405, 2-7-1986]	D323.1
FEEDER, BELT A/N: 326718	D330	D58 D59		PM: (9) [RULE 405, 2-7-1986]	D323.1
CRUSHER, NO. 4, ROLL A/N: 326718	D59	D330		PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, SURGE, NO. 14, CRUSHER FEED A/N: 326718	D53	D54 D55 D56 D57 D66 D85 C329		PM: (9) [RULE 405, 2-7-1986]	D323.1
FEEDER, BELT, AGGREGATE A/N: 326718	D66	D53 D67		PM: (9) [RULE 405, 2-7-1986]	D323.1
CRUSHER, NO. 5, ROLL A/N: 326718	D67	D66		PM: (9) [RULE 405, 2-7-1986]	D323.1
BUCKET ELEVATOR, NO. 2 A/N: 326718	D61	C329		PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, DISTRIBUTOR NO. 1 A/N: 326718	D331	D62 D63 D64 D65 C329		PM: (9) [RULE 405, 2-7-1986]	D323.1
SCREEN, CLASSIFYING, CLASSIFYING, NO. 3, AGGREGATE A/N: 326718	D62	D331		PM: (9) [RULE 405, 2-7-1986]	D323.1
SCREEN, CLASSIFYING, CLASSIFYING, NO. 4, AGGREGATE A/N: 326718	D63	D331		PM: (9) [RULE 405, 2-7-1986]	D323.1
SCREEN, CLASSIFYING, CLASSIFYING, NO. 5, AGGREGATE A/N: 326718	D64	D331		PM: (9) [RULE 405, 2-7-1986]	D323.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor
 (3) Denotes RECLAIM concentration limit
 (5) (5A) (5B) Denotes command and control emission limit
 (7) Denotes NSR applicability limit
 (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
 (6) Denotes air toxic control rule limit
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: COLORED ROOFING GRANULE PRODUCTION					
SCREEN, CLASSIFYING, CLASSIFYING, NO. 6, AGGREGATE A/N: 326718	D65	D331		PM: (9) [RULE 405, 2-7-1986]	D323.1
BAGHOUSE, NO. 8, ICA, MODEL 625-5, 3125 SQ.FT. A/N: 327471	C68	D42 D45 D51 D336 D356		PM: (9) [RULE 404, 2-7-1986]	D12.1, D322.1, D381.1, E201.1, K67.2
BAGHOUSE, NO. 9, ICA, MODEL 625-7, 4375 SQ.FT. A/N: 327472	C329	D43 D44 D47 D48 D49 D50 D53 D61 D331 D336 D352		PM: (9) [RULE 404, 2-7-1986]	D12.1, D322.1, D381.1, E193.1, E201.1, K67.2
CONVEYOR, BELT, NO. 30, AGGREGATE A/N: 483638	D69	D51 D70		PM: (9) [RULE 405, 2-7-1986]	D323.1
BUCKET ELEVATOR, NO. 30 A/N: 483638	D70	D69 C105		PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, DISTRIBUTOR NO. 30 A/N: 483638	D332	C105		PM: (9) [RULE 405, 2-7-1986]	D323.1
SCREEN, CLASSIFYING, CLASSIFYING, NO. 36, AGGREGATE A/N: 483638	D71	C105		PM: (9) [RULE 405, 2-7-1986]	D323.1
SCREEN, CLASSIFYING, CLASSIFYING, NO. 37, AGGREGATE A/N: 483638	D72	C105		PM: (9) [RULE 405, 2-7-1986]	D323.1
SCREEN, CLASSIFYING, CLASSIFYING, NO. 30, AGGREGATE A/N: 483638	D73	C106		PM: (9) [RULE 405, 2-7-1986]	D323.1
SCREEN, CLASSIFYING, CLASSIFYING, NO. 31, AGGREGATE A/N: 483638	D74	C106		PM: (9) [RULE 405, 2-7-1986]	D323.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate
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 (5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: COLORED ROOFING GRANULE PRODUCTION					
SCREEN, CLASSIFYING, CLASSIFYING, NO. 32, AGGREGATE A/N: 483638	D75	C106		PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, BELT, NO. 31, AGGREGATE A/N: 483638	D77	D78 C105		PM: (9) [RULE 405, 2-7-1986]	D323.1
BUCKET ELEVATOR, NO. 31 A/N: 483638	D78	D77 C105 D334		PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, DISTRIBUTOR NO. 31 A/N: 483638	D334	D78 C105		PM: (9) [RULE 405, 2-7-1986]	D323.1
SCREEN, CLASSIFYING, CLASSIFYING, NO. 38, AGGREGATE A/N: 483638	D79	C105		PM: (9) [RULE 405, 2-7-1986]	D323.1
SCREEN, CLASSIFYING, CLASSIFYING, NO. 39, AGGREGATE A/N: 483638	D80	C105		PM: (9) [RULE 405, 2-7-1986]	D323.1
SCREEN, CLASSIFYING, CLASSIFYING, NO. 33, AGGREGATE A/N: 483638	D81	C106		PM: (9) [RULE 405, 2-7-1986]	D323.1
SCREEN, CLASSIFYING, CLASSIFYING, NO. 34, AGGREGATE A/N: 483638	D82	C106		PM: (9) [RULE 405, 2-7-1986]	D323.1
SCREEN, CLASSIFYING, CLASSIFYING, NO. 35, AGGREGATE A/N: 483638	D83	C105		PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, NO. 9, BAGHOUSE RECLAIM A/N: 483638	D352	C329		PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, BELT, NO. 33, AGGREGATE A/N: 483638	D85	D53 C105 C106		PM: (9) [RULE 405, 2-7-1986]	D323.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: COLORED ROOFING GRANULE PRODUCTION					
CONVEYOR, BELT, NO. 34, AGGREGATE A/N: 483638	D86	C106		PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, BELT, NO. 36, AGGREGATE A/N: 483638	D87	D58		PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, NO. 30, AGGREGATE A/N: 483638	D88	C106		PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, NO. 31, AGGREGATE A/N: 483638	D89	C106		PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, NO. 32, AGGREGATE A/N: 483638	D90	C106		PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, NO. 33, AGGREGATE A/N: 483638	D91	C106		PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, NO. 34, AGGREGATE A/N: 483638	D92	C106		PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, NO. 35, AGGREGATE A/N: 483638	D93	C106		PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, NO. 36, AGGREGATE A/N: 483638	D94	D96 D333		PM: (9) [RULE 405, 2-7-1986]	D323.1
FEEDER, AGGREGATE, BELT A/N: 483638	D333	D76 D94		PM: (9) [RULE 405, 2-7-1986]	D323.1
CRUSHER, NO. 6 A/N: 483638	D76	D333		PM: (9) [RULE 405, 2-7-1986]	C1.5, D323.1
BIN, NO. 37, AGGREGATE A/N: 483638	D95	D97 D335		PM: (9) [RULE 405, 2-7-1986]	D323.1
FEEDER, AGGREGATE, BELT A/N: 483638	D335	D84 D95		PM: (9) [RULE 405, 2-7-1986]	D323.1
CRUSHER, NO. 7 A/N: 483638	D84	D335		PM: (9) [RULE 405, 2-7-1986]	D323.1

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|--|--|
| <ul style="list-style-type: none"> * (1) (1A) (1B) Denotes RECLAIM emission factor (3) Denotes RECLAIM concentration limit (5) (5A) (5B) Denotes command and control emission limit (7) Denotes NSR applicability limit (9) See App B for Emission Limits | <ul style="list-style-type: none"> (2) (2A) (2B) Denotes RECLAIM emission rate (4) Denotes BACT emission limit (6) Denotes air toxic control rule limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.) (10) See section J for NESHAP/MACT requirements |
|--|--|

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: COLORED ROOFING GRANULE PRODUCTION					
CONVEYOR, SCREW, NO. 8, BAGHOUSE RECLAIM A/N: 483652	D356	C68		PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, DUST STORAGE A/N: 483652	D353	C39		PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, NO. 7, DUST TRANSPORT A/N: 483652	D354	C39		PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, BELT, NO. 32 A/N: 483638	D336	C68 C329 D337		PM: (9) [RULE 405, 2-7-1986]	D323.1
BUCKET ELEVATOR, NO. 32 A/N: 483638	D337	C105 D336		PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, NO. 38, AGGREGATE A/N: 483638	D96	D94 C106		PM: (9) [RULE 405, 2-7-1986]	D323.1
MILL, PUG, AGGREGATE, WET WASTE A/N: 483638	D100	C106		PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, BELT, NO. 40 A/N: 483638	D376			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, PNEUMATIC, NO. 100 TRANSPORT, BAGHOUSE NO. 12 RECLAIM A/N: 483638	D338			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, PNEUMATIC, NO. 200 TRANSPORT, BAGHOUSE NO. 13 RECLAIM A/N: 483638	D339			PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, NO. 39, AGGREGATE A/N: 483638	D97	D95 C106		PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, NO. 39A, DUST TRANSPORT A/N: 483652	D357	C106 D358		PM: (9) [RULE 405, 2-7-1986]	D323.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: COLORED ROOFING GRANULE PRODUCTION					
CONVEYOR, SCREW, NO. 39B, DUST TRANSPORT A/N: 483652	D358	D357		PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, NO. 40A A/N: 483638	D374			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, NO. 40B A/N: 483638	D375			PM: (9) [RULE 405, 2-7-1986]	D323.1
BAGHOUSE, NO. 11, ICA, MODEL 625-8, 5000 SQ.FT. A/N: 327475	C105	D70 D71 D72 D77 D78 D79 D80 D83 D85 D332 D334 D337		PM: (9) [RULE 404, 2-7-1986]	D12.1, D322.1, D381.1, E193.1, E201.1, K67.2
BAGHOUSE, NO. 10, SENECA ENVIRONMENTAL, MODEL 414-THS-10, 9754 SQ. FT., TWO COMPARTMENT, WITH GOYEN, MODEL BBD5, BAG LEAK DETECTION SYSTEM A/N: 510451	C106	D73 D74 D75 D81 D82 D85 D86 D88 D89 D90 D91 D92 D93 D96 D97 D100 D159 D357		PM: (9) [RULE 404, 2-7-1986]	D12.1, D322.1, D381.1, E193.1, E201.1, H23.4, K67.2
System 5: MATERIAL CRUSHING, SCREENING AND LOAD-OUT					
CONVEYOR, BELT, NO. 16, H-GRADE A/N: 483652	D107	C369		PM: (9) [RULE 405, 2-7-1986]	D323.1
BUCKET ELEVATOR, NO. 15 A/N: 483652	D108	C369		PM: (9) [RULE 405, 2-7-1986]	D323.1
SCREEN, CLASSIFYING, CLASSIFYING, NO. 11, 4 ROTEX A/N: 483652	D113	C369		PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, BELT, NO. 51 A/N: 483652	D370	C369		PM: (9) [RULE 405, 2-7-1986]	A63.1, D323.1
BUCKET ELEVATOR, NO. 52 A/N: 483652	D140	D371		PM: (9) [RULE 405, 2-7-1986]	B59.1, D323.1

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| * (1) (1A) (1B) Denotes RECLAIM emission factor | (2) (2A) (2B) Denotes RECLAIM emission rate |
| (3) Denotes RECLAIM concentration limit | (4) Denotes BACT emission limit |
| (5) (5A) (5B) Denotes command and control emission limit | (6) Denotes air toxic control rule limit |
| (7) Denotes NSR applicability limit | (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.) |
| (9) See App B for Emission Limits | (10) See section J for NESHAP/MACT requirements |

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: COLORED ROOFING GRANULE PRODUCTION					
CONVEYOR, BELT, NO. 52 A/N: 483652	D371	D140 D143 D144		PM: (9) [RULE 405, 2-7-1986]	B59.1, D323.1
STORAGE SILO, HEAD LAP, HEIGHT: 64 FT; DIAMETER: 21 FT A/N: 483652	D143	D371		PM: (9) [RULE 405, 2-7-1986]	B59.1, D323.1
STORAGE SILO, HEAD LAP, HEIGHT: 64 FT; DIAMETER: 21 FT A/N: 483652	D144	D371		PM: (9) [RULE 405, 2-7-1986]	B59.1, D323.1
CONVEYOR, BELT, FEEDER A/N: 483652	D372	D147		PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, BELT, FEEDER A/N: 483652	D373	D147		PM: (9) [RULE 405, 2-7-1986]	D323.1
BUCKET ELEVATOR, NO. 53 A/N: 483652	D147	D372 D373		PM: (9) [RULE 405, 2-7-1986]	B59.1, D323.1
BULK MATERIAL LOAD/UNLOAD STATION, TRUCK/RAILCAR LOADING STATION A/N: 483652	D151			PM: (9) [RULE 405, 2-7-1986]	B59.1, C1.4, D323.1
BULK MATERIAL LOAD/UNLOAD STATION, TRUCK/RAILCAR LOADING STATION A/N: 483652	D152			PM: (9) [RULE 405, 2-7-1986]	B59.1, C1.4, D323.1
BAGHOUSE, NO. 6, SENECA ENVIRONMENTAL PRODUCTS, MODEL 63-FMTHSCART-78, 31.6 HP, 3085 SQ.FT.; 63 BAGS A/N: 367235	C369	D107 D108 D113 D370		PM: (9) [RULE 404, 2-7-1986]	D12.1, D322.1, D381.1, E201.1, K67.2
System 6: DRIED RAW GRANULE CONVEYING AND STORAGE					
CONVEYOR, BELT, NO. 5, RAW GRANULE A/N: 01641R	D159	C106 C165		PM: (9) [RULE 405, 2-7-1986]	D323.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: COLORED ROOFING GRANULE PRODUCTION					
BUCKET ELEVATOR, NO. 14 A/N: 01641R	D160	C165		PM: (9) [RULE 405, 2-7-1986]	D323.1
BULK MATERIAL LOAD/UNLOAD STATION, RAW GRANULE, TRUCK LOADING STATION A/N: 01641R	D161			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, NO. 2, RAW GRANULE, HEIGHT: 60 FT 8 IN; DIAMETER: 20 FT 6 IN A/N: 01641R	D162	C165		PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, NO. 3, RAW GRANULE, HEIGHT: 60 FT 8 IN; DIAMETER: 20 FT 6 IN A/N: 01641R	D163	C165		PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, RAW GRANULE, 80 TONS A/N: 01641R	D164			PM: (9) [RULE 405, 2-7-1986]	D323.1
BAGHOUSE, NO. 12, ICA, MODEL 625-3, 1875 SQ.FT. A/N: 00815E	C165	D159 D160 D162 D163 D166 D167		PM: (9) [RULE 404, 2-7-1986]	D322.1, D381.1, E201.1, K67.2
System 7: GRANULE COLORING FEED END SYSTEM					S20.1
CONVEYOR, BELT, NO. 17, GRANULE A/N: 542978	D166	C165		PM: (9) [RULE 405, 2-7-1986]	D323.1
BUCKET ELEVATOR, NO. 16 A/N: 542978	D167	C165		PM: (9) [RULE 405, 2-7-1986]	D323.1
DRYER, ROTARY, NO. 2, NATURAL GAS, PREHEATER, 20.185 MMBTU/HR A/N:	D168	C172	NOX: LARGE SOURCE**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 88 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 405, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	D12.4, D323.1

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|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor
 (3) Denotes RECLAIM concentration limit
 (5) (5A) (5B) Denotes command and control emission limit
 (7) Denotes NSR applicability limit
 (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
 (6) Denotes air toxic control rule limit
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (10) See section J for NESHAP/MACT requirements</p> |
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FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: COLORED ROOFING GRANULE PRODUCTION					
CONVEYOR, BELT, NO. 6, GRANULE A/N: 542978	D169	C172 C324		PM: (9) [RULE 405, 2-7-1986]	D323.1
BUCKET ELEVATOR, NO. 3 A/N: 542978	D170	C324		PM: (9) [RULE 405, 2-7-1986]	D323.1
BUCKET ELEVATOR, NO. 3A A/N: 542978	D171	C324		PM: (9) [RULE 405, 2-7-1986]	D323.1
BAGHOUSE, NO. 13, ICA, MODEL 625-6, 3750 SQ.FT. A/N: 483654	C172	D168 D169 D351		PM: (9) [RULE 404, 2-7-1986]	D322.1, D381.1, E193.1, E201.1, K67.2
CONVEYOR, AIR SLIDE, NO. 9, BAGHOUSE RECLAIM, EMERGENCY A/N: 483654	D350			PM: (9) [RULE 405, 2-7-1986]	D323.1
BULK MATERIAL LOAD/UNLOAD STATION, BAGHOUSE RECLAIM, EMERGENCY TRUCK LOADOUT A/N: 483654	D351	C172		PM: (9) [RULE 405, 2-7-1986]	D323.1
System 8: GRANULE COLORING LINE NO.1					S20.1
BIN, SURGE, A, 75 TONS A/N: 542978	D173	C324		PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, BELT, NO. 10, GRANULE, REVERSIBLE A/N: 542978	D188			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, BELT, NO. 41A, REVERSIBLE A/N: 542978	D388			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, BELT, NO. 41B A/N: 542978	D389			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, BELT, NO. 14, GRANULE, REVERSIBLE A/N: 542979	D202			PM: (9) [RULE 405, 2-7-1986]	D323.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: COLORED ROOFING GRANULE PRODUCTION					
FEEDER, GRANULE, WEIGH A/N: 542978	D177	C324		PM: (9) [RULE 405, 2-7-1986]	D323.1
FEEDER, ADDITIVE A/N: 542978	D361			PM: (9) [RULE 405, 2-7-1986]	D323.1
HOPPER, SURGE, NO. 1, 4 CU.FT. CAPACITY A/N: 542978	D380			PM: (9) [RULE 405, 2-7-1986]	D323.1
HOPPER, RECEIVING, 30 CU.FT. CAPACITY WITH A/N: 542978 FILTER, PULSE JET CLEANING, 14 BAGS, 148 SQ.FT. TOTAL FILTER AREA	D381			PM: (9) [RULE 405, 2-7-1986]	D323.1
MIXER, PIGMENT SLURRY, POT A/N: 542978	D174	C189		PM: (9) [RULE 405, 2-7-1986]	D323.1
MIXER, SLURRY, HOLDING POT A/N: 542978	D175			PM: (9) [RULE 405, 2-7-1986]	D323.1
MIXER, GRANULE, ROTARY WITH A/N: 542978 HEATER, NATURAL GAS, NORTH AMERICAN, WITH EXHAUST TEMPERATURE CONTROL, 1 MMBTU/HR	D178 D179	C189	 NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 405, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	D323.1
BUCKET ELEVATOR, NO. 4 A/N: 542978	D180	D181		PM: (9) [RULE 405, 2-7-1986]	D323.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor
 (3) Denotes RECLAIM concentration limit
 (5) (5A) (5B) Denotes command and control emission limit
 (7) Denotes NSR applicability limit
 (9) See App B for Emission Limits
 (2) (2A) (2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
 (6) Denotes air toxic control rule limit
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: COLORED ROOFING GRANULE PRODUCTION					
KILN, NO. 1, NATURAL GAS, WITH LOW NOX BURNER, 42 MMBTU/HR WITH A/N: 542978 BURNER, NATURAL GAS, MAXON, MODEL 16" OPTIMA SLS, WITH LOW NOX BURNER, 42 MMBTU/HR	D181	D180 C190	NOX: MAJOR SOURCE - SUPER COMPLIANT **	CO: 155 LBS/MMSCF NATURAL GAS (5) [RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 32 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 405, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	D12.3, D28.1, D323.1
COOLER, GRANULE, WITH WATER, OIL, ADHESION PROMOTER(S) AND/OR DUST SUPPRESSANT(S) INJECTION A/N: 542978	D182	C191		PM: (9) [RULE 405, 2-7-1986]	A63.1, D323.1
BUCKET ELEVATOR, NO. 6 A/N: 542978	D183	C325		PM: (9) [RULE 405, 2-7-1986]	D323.1
SCREEN, CLASSIFYING, CLASSIFYING, NO. 20, GRANULE A/N: 542978	D184			PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, SURGE, SCREEN WASTE A/N: 542978	D185	C325		PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, SURGE, SCREEN BLEND, NO. 2 LINE, 15 TONS A/N: 542979	D317	C325		PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, BELT, NO. 9, GRANULE A/N: 542978	D186	C325		PM: (9) [RULE 405, 2-7-1986]	D323.1

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|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor
 (3) Denotes RECLAIM concentration limit
 (5) (5A) (5B) Denotes command and control emission limit
 (7) Denotes NSR applicability limit
 (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
 (6) Denotes air toxic control rule limit
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (10) See section J for NESHAP/MACT requirements</p> |
|---|---|

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: COLORED ROOFING GRANULE PRODUCTION					
CONVEYOR, BELT, NO. 13, GRANULE A/N: 542978	D187	C325		PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, BELT, NO. 11 A/N: 542978	D363	C325		PM: (9) [RULE 405, 2-7-1986]	D323.1
BAGHOUSE, NO. 16, FABRIC FILTER, MODEL SQD-144-10-ARRG 111 A/N: 119897	C189	D174 D178		PM: (9) [RULE 404, 2-7-1986]	D12.1, D322.1, D381.1, E193.1, E201.1, K67.2
CONVEYOR, PNEUMATIC, BAGHOUSE NO. 16 RECLAIM A/N: 119897	D364			PM: (9) [RULE 405, 2-7-1986]	D323.1
BAGHOUSE, NO. 17, SENECA ENVIRONMENTAL, MODEL 558-THSBV-10 A/N: 131909	C190	D181		PM: (9) [RULE 404, 2-7-1986]	D12.1, D322.1, D381.1, E193.1, E201.1, K67.2
CONVEYOR, PNEUMATIC, BAGHOUSE NO. 17 RECLAIM A/N: 131909	D365			PM: (9) [RULE 405, 2-7-1986]	D323.1
SCRUBBER, VENTURI, DUCON, TYPE UW-3, MODEL III, SIZE 84, WITH A 125-HP BLOWER A/N: 538735	C191	D182		PM: (9) [RULE 404, 2-7-1986]	C8.1, D12.2, D381.1, E193.2, H23.4, K67.3
System 9: GRANULE COLORING LINE NO.2					
BIN, SURGE, B, 75 TONS A/N: 542979	D192	C324		PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, BELT, NO. 42A, REVERSIBLE A/N: 542979	D390			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, BELT, NO. 42B A/N: 542979	D391			PM: (9) [RULE 405, 2-7-1986]	D323.1

- | | |
|--|---|
| * (1) (1A) (1B) Denotes RECLAIM emission factor | (2) (2A) (2B) Denotes RECLAIM emission rate |
| (3) Denotes RECLAIM concentration limit | (4) Denotes BACT emission limit |
| (5) (5A) (5B) Denotes command and control emission limit | (6) Denotes air toxic control rule limit |
| (7) Denotes NSR applicability limit | (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.) |
| (9) See App B for Emission Limits | (10) See section J for NESHAP/MACT requirements |

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: COLORED ROOFING GRANULE PRODUCTION					
CONVEYOR, BELT, NO. 10, GRANULE, REVERSIBLE A/N: 542978	D188			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, BELT, NO. 14, GRANULE, REVERSIBLE A/N: 542979	D202			PM: (9) [RULE 405, 2-7-1986]	D323.1
FEEDER, GRANULE, WEIGH A/N: 542979	D194	C324		PM: (9) [RULE 405, 2-7-1986]	D323.1
FEEDER, ADDITIVE A/N: 542979	D362			PM: (9) [RULE 405, 2-7-1986]	D323.1
HOPPER, SURGE, NO. 2, 4 CU.FT. CAPACITY A/N: 542979	D383			PM: (9) [RULE 405, 2-7-1986]	D323.1
HOPPER, RECEIVING, 30 CU.FT. CAPACITY WITH A/N: 542979 FILTER, PULSE JET CLEANING, 14 BAGS, 148 SQ.FT. TOTAL FILTER AREA	D384			PM: (9) [RULE 405, 2-7-1986]	D323.1
MIXER, PIGMENT SLURRY, POT A/N: 542979	D193	C203		PM: (9) [RULE 405, 2-7-1986]	D323.1
MIXER, SLURRY, HOLDING POT A/N: 542979	D176			PM: (9) [RULE 405, 2-7-1986]	D323.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: COLORED ROOFING GRANULE PRODUCTION					
MIXER, GRANULE, ROTARY WITH A/N: 542979	D195	C203		CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 405, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	D323.1
HEATER, NATURAL GAS, NORTH AMERICAN, 1 MMBTU/HR	D196		NOX: PROCESS UNIT**		
BUCKET ELEVATOR, NO. 5 A/N: 542979	D197	D198		PM: (9) [RULE 405, 2-7-1986]	D323.1
KILN, NO. 2, NATURAL GAS, WITH LOW NOX BURNER, 42 MMBTU/HR WITH A/N: 542979	D198	D197 C204	NOX: MAJOR SOURCE - SUPER COMPLIANT **	CO: 155 LBS/MMSCF NATURAL GAS (5) [RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]; CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 32 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 405, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	D12.3, D28.1, D323.1
COOLER, GRANULE, WITH WATER, OIL, ADHESION PROMOTER(S) AND/OR DUST SUPPRESSANT(S) INJECTION A/N: 542979	D199	C205		PM: (9) [RULE 405, 2-7-1986]	A63.1, D323.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements
- ** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: COLORED ROOFING GRANULE PRODUCTION					
BUCKET ELEVATOR, NO. 7 A/N: 542979	D200	C325		PM: (9) [RULE 405, 2-7-1986]	D323.1
SCREEN, CLASSIFYING, CLASSIFYING, NO. 21, GRANULE, TRIPLE DECK A/N: 542979	D201			PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, SURGE, SCREEN WASTE, NO. 2 LINE, 15 TONS A/N: 542979	D316	C325		PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, SURGE, SCREEN BLEND, NO. 2 LINE, 15 TONS A/N: 542979	D317	C325		PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, BELT, NO. 9, GRANULE A/N: 542978	D186	C325		PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, BELT, NO. 13, GRANULE A/N: 542978	D187	C325		PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, BELT, NO. 11 A/N: 542978	D363	C325		PM: (9) [RULE 405, 2-7-1986]	D323.1
BAGHOUSE, NO. 15, FABRIC FILTER, MODEL SQD-144-10-ARRG 111 A/N: 119898	C203	D193 D195		PM: (9) [RULE 404, 2-7-1986]	D12.1, D322.1, D381.1, E193.1, E201.1, K67.2
CONVEYOR, PNEUMATIC, BAGHOUSE NO. 15 RECLAIM A/N: 119898	D366			PM: (9) [RULE 405, 2-7-1986]	D323.1
BAGHOUSE, NO. 18, SENECA ENVIRONMENTAL, MODEL 558-THSBV-10 A/N: 131910	C204	D198		PM: (9) [RULE 404, 2-7-1986]	D12.1, D322.1, D381.1, E193.1, E201.1, K67.2

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: COLORED ROOFING GRANULE PRODUCTION					
CONVEYOR, PNEUMATIC, BAGHOUSE NO. 18 RECLAIM A/N: 131910	D367			PM: (9) [RULE 405, 2-7-1986]	D323.1
SCRUBBER, VENTURI, DUCON, TYPE UW-3, MODEL III, SIZE 84, WITH A 125-HP BLOWER A/N: 538736	C205	D199		PM: (9) [RULE 404, 2-7-1986]	C8.1, D12.2, D381.1, E193.2, H23.4, K67.3
System 10: FINISHED GRANULE STORAGE					
STORAGE SILO, A-1, GRANULE, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: 01633R	D206			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, A-2, GRANULE, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: 01633R	D207			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, A-3, GRANULE, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: 01633R	D208			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, A-4, GRANULE, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: 01633R	D209			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, A-5, GRANULE, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: 01633R	D210			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, A-6, GRANULE, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: 01633R	D211			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, A-7, GRANULE, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: 01633R	D212			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, A-8, GRANULE, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: 01633R	D213			PM: (9) [RULE 405, 2-7-1986]	D323.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor (2) (2A) (2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits (10) See section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: COLORED ROOFING GRANULE PRODUCTION					
STORAGE SILO, A-9, GRANULE, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: 01633R	D214			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, A-10, GRANULE, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: 01633R	D215			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, A-11, GRANULE, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: 01633R	D216			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, A-12, GRANULE, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: 01633R	D217			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, A-13, GRANULE, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: 01633R	D218			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, A-14, GRANULE, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: 01633R	D219	C324		PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, B-1, GRANULE, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: 01633R	D220			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, B-2, GRANULE, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: 01633R	D221			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, B-3, GRANULE, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: 01633R	D222			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, B-4, GRANULE, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: 01633R	D223			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, B-5, GRANULE, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: 01633R	D224			PM: (9) [RULE 405, 2-7-1986]	D323.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (3) Denotes RECLAIM concentration limit
- (4) Denotes BACT emission limit
- (5) (5A) (5B) Denotes command and control emission limit
- (6) Denotes air toxic control rule limit
- (7) Denotes NSR applicability limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (9) See App B for Emission Limits
- (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: COLORED ROOFING GRANULE PRODUCTION					
STORAGE SILO, B-6, GRANULE, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: 01633R	D225			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, B-7, GRANULE, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: 01633R	D226			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, B-8, GRANULE, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: 01633R	D227			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, B-9, GRANULE, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: 01633R	D228			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, B-10, GRANULE, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: 01633R	D229			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, B-11, GRANULE, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: 01633R	D230			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, B-12, GRANULE, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: 01633R	D231			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, B-13, GRANULE, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: 01633R	D232			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, B-14, GRANULE, HEIGHT: 36 FT ; DIAMETER: 8 FT A/N: 01633R	D233	C324		PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, C-1, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D234			PM: (9) [RULE 405, 2-7-1986]	D323.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: COLORED ROOFING GRANULE PRODUCTION					
STORAGE SILO, C-2, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D235			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, C-3, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D236			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, C-4, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D237			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, C-5, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D238			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, C-6, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D239			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, C-7, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D240			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, C-8, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D241			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, C-9, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D242			PM: (9) [RULE 405, 2-7-1986]	D323.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: COLORED ROOFING GRANULE PRODUCTION					
STORAGE SILO, C-10, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D243			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, C-11, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D244			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, C-12, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D245			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, C-13, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D246			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, C-14, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D247			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, C-15, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D248			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, C-16, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D249			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, C-17, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D250			PM: (9) [RULE 405, 2-7-1986]	D323.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor
 (2) (2A) (2B) Denotes RECLAIM emission rate
 (3) Denotes RECLAIM concentration limit
 (4) Denotes BACT emission limit
 (5) (5A) (5B) Denotes command and control emission limit
 (6) Denotes air toxic control rule limit
 (7) Denotes NSR applicability limit
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (9) See App B for Emission Limits
 (10) See section J for NESHAP/MACT requirements
- ** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: COLORED ROOFING GRANULE PRODUCTION					
STORAGE SILO, C-18, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D251			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, C-19, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D252			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, C-20, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D253			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, C-21, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D254			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, C-22, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D255			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, D-1, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D256			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, D-2, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D257			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, D-3, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D258			PM: (9) [RULE 405, 2-7-1986]	D323.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (3) Denotes RECLAIM concentration limit
- (4) Denotes BACT emission limit
- (5) (5A) (5B) Denotes command and control emission limit
- (6) Denotes air toxic control rule limit
- (7) Denotes NSR applicability limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (9) See App B for Emission Limits
- (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: COLORED ROOFING GRANULE PRODUCTION					
STORAGE SILO, D-4, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D259			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, D-5, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D260			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, D-6, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D261			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, D-7, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D262			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, D-8, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D263			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, D-9, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D264			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, D-10, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D265			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, D-11, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D266			PM: (9) [RULE 405, 2-7-1986]	D323.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: COLORED ROOFING GRANULE PRODUCTION					
STORAGE SILO, D-12, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D267			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, D-13, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D268			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, D-14, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D269			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, D-15, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D270			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, D-16, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D271			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, D-17, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D272			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, D-18, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D273			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, D-19, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D274			PM: (9) [RULE 405, 2-7-1986]	D323.1

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|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor
 (3) Denotes RECLAIM concentration limit
 (5) (5A) (5B) Denotes command and control emission limit
 (7) Denotes NSR applicability limit
 (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
 (6) Denotes air toxic control rule limit
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (10) See section J for NESHAP/MACT requirements</p> |
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FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process J: COLORED ROOFING GRANULE PRODUCTION					
STORAGE SILO, D-20, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D275			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, D-21, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D276			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, D-22, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D277			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, E-1, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D278			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, E-2, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D279			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, E-3, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D280			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, E-4, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D281			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, E-5, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D282			PM: (9) [RULE 405, 2-7-1986]	D323.1

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|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor
 (3) Denotes RECLAIM concentration limit
 (5) (5A) (5B) Denotes command and control emission limit
 (7) Denotes NSR applicability limit
 (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
 (6) Denotes air toxic control rule limit
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (10) See section J for NESHAP/MACT requirements</p> |
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FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions* And Requirements	Conditions
Process 1: COLORED ROOFING GRANULE PRODUCTION					
STORAGE SILO, E-6, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D283			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, E-7, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D284			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, E-8, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D285			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, E-9, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D286			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, E-10, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D287			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, E-11, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D288			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, E-12, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D289			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, E-13, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D290			PM: (9) [RULE 405, 2-7-1986]	D323.1

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|---|---|
| <p>* (1) (1A) (1B) Denotes RECLAIM emission factor
 (3) Denotes RECLAIM concentration limit
 (5) (5A) (5B) Denotes command and control emission limit
 (7) Denotes NSR applicability limit
 (9) See App B for Emission Limits</p> | <p>(2) (2A) (2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
 (6) Denotes air toxic control rule limit
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (10) See section J for NESHAP/MACT requirements</p> |
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FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: COLORED ROOFING GRANULE PRODUCTION					
STORAGE SILO, E-14, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D291			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, E-15, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D292			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, E-16, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D293			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, E-17, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D294			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, E-18, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D295			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, E-19, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D296			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, E-20, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D297			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, E-21, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D298			PM: (9) [RULE 405, 2-7-1986]	D323.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: COLORED ROOFING GRANULE PRODUCTION					
STORAGE SILO, E-22, GRANULE, HEIGHT: 40 FT ; DIAMETER: 8 FT 4 IN A/N: 02513R	D299			PM: (9) [RULE 405, 2-7-1986]	D323.1
System 11: FINISHED GRANULE BAGGING AND BULK LOADOUT					
CONVEYOR, BELT, NO. 10, GRANULE, REVERSIBLE A/N: 542978	D188			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, BELT, NO. 14, GRANULE, REVERSIBLE A/N: 542979	D202			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, BELT, NO. 12, GRANULE A/N: 326721	D300			PM: (9) [RULE 405, 2-7-1986]	D323.1
BUCKET ELEVATOR, NO. 9 A/N: 326721	D301	C325		PM: (9) [RULE 405, 2-7-1986]	D323.1
BUCKET ELEVATOR, NO. 21 A/N: 326721	D302	C325		PM: (9) [RULE 405, 2-7-1986]	D323.1
SCREEN, CLASSIFYING, CLASSIFYING, NO. 8 A/N: 326721	D303			PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, SURGE, WITH SACKING SCALE, 53 TONS A/N: 326721	D304			PM: (9) [RULE 405, 2-7-1986]	D323.1
PACKAGING MACHINE, GRANULE A/N: 326721	D305	C325		PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, SURGE, SCREEN WASTE, 5 TONS A/N: 326721	D306			PM: (9) [RULE 405, 2-7-1986]	D323.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor
 (3) Denotes RECLAIM concentration limit
 (5) (5A) (5B) Denotes command and control emission limit
 (7) Denotes NSR applicability limit
 (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
 (4) Denotes BACT emission limit
 (6) Denotes air toxic control rule limit
 (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 (10) See section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: COLORED ROOFING GRANULE PRODUCTION					
BULK MATERIAL LOAD/UNLOAD STATION, GRANULE, TRUCK AND RAILCAR LOADING STATION A/N: 326721	D307			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, BELT, NO. 20, GRANULE A/N: 326721	D308			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, NO. 21, GRANULE A/N: 326721	D309			PM: (9) [RULE 405, 2-7-1986]	D323.1
BUCKET ELEVATOR, NO. 8 A/N: 326721	D310	C325		PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, SURGE, WITH SACKING SCALE, 15 TONS A/N: 326721	D312			PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, SURGE, SCREEN WASTE, 5 TONS A/N: 326721	D314			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, BELT, NO. 19, GRANULE A/N: 326721	D318			PM: (9) [RULE 405, 2-7-1986]	D323.1
BULK MATERIAL LOAD/UNLOAD STATION, GRANULE, TRUCK AND RAILCAR LOADING STATION A/N: 326721	D319			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, BELT, NO. 22 A/N: 326721	D348			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, BELT, NO. 25, SCALE A/N: 326721	D349			PM: (9) [RULE 405, 2-7-1986]	D323.1
System 12: AIR POLLUTION CONTROL					

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

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FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: COLORED ROOFING GRANULE PRODUCTION					
BAGHOUSE, NO. 14, FABRIC FILTER, MODEL SQW-360-10-ARRG 11 A/N: 483657	C324	D169 D170 D171 D173 D177 D192 D194 D219 D233		PM: (9) [RULE 404, 2-7-1986]	D12.1, D322.1, D381.1, K67.2
CYCLONE, MULTICLONE A/N: 00239R	C325	D183 D185 D186 D187 D200 D301 D302 D305 D310 D316 D317 D363		PM: (9) [RULE 404, 2-7-1986]	D381.1, E201.1
Process 2: R-219 EXEMPT EQUIPMENT SUBJECT TO SOURCE-SPECIFIC RULES					
RULE 219 EXEMPT EQUIPMENT, CLEANING EQUIPMENT, SMALL, UNHEATED, NON-CONVEYORIZED	E342			VOC: (9) [RULE 1171, 11-7-2003; RULE 1171, 5-1-2009]	H23.1
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS	E343			ROG: (9) [RULE 1113, 11-8-1996; RULE 1113, 6-3-2011; RULE 1171, 11-7-2003; RULE 1171, 5-1-2009]	K67.1
Process 3: FUEL STORAGE AND DISPENSING					
STORAGE TANK, ABOVE GROUND, CONTAINMENT SOLUTIONS HOOVER VAULT (VR-301-E), GASOLINE, HUSKY 5885 PRESSURE/VACUUM REL. VLV., MORRISON BROS. PH. I EVR SYSTEM (VR-402-B), WITH SUBMERGED FILLING, PHASE I VAPOR RECOVERY SYSTEM, 500 GALS; WIDTH: 4 FT 7 IN; HEIGHT: 3 FT 9 IN; LENGTH: 6 FT 8 IN A/N:	D378				C1.6, D330.1, E71.1, E193.3, H23.3, H23.5, J109.1, J373.1, K171.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor
- (3) Denotes RECLAIM concentration limit
- (5) (5A) (5B) Denotes command and control emission limit
- (7) Denotes NSR applicability limit
- (9) See App B for Emission Limits
- (2) (2A) (2B) Denotes RECLAIM emission rate
- (4) Denotes BACT emission limit
- (6) Denotes air toxic control rule limit
- (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
- (10) See section J for NESHAP/MACT requirements

** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 3: FUEL STORAGE AND DISPENSING					
FUEL DISPENSING NOZZLE, BALANCE RETRACTOR PHASE II CONTROL, GASOLINE, ONE PRODUCT, (G-70-52-AM), WITH PHASE II VAPOR RECOVERY SYSTEM A/N:	D379				C1.6, D330.1, E71.1, E193.3, H23.3, J110.1, J373.2, K171.1

- * (1) (1A) (1B) Denotes RECLAIM emission factor
 - (3) Denotes RECLAIM concentration limit
 - (5) (5A) (5B) Denotes command and control emission limit
 - (7) Denotes NSR applicability limit
 - (9) See App B for Emission Limits
 - (2) (2A) (2B) Denotes RECLAIM emission rate
 - (4) Denotes BACT emission limit
 - (6) Denotes air toxic control rule limit
 - (8) (8A) (8B) Denotes 40 CFR limit (e.g. NSPS, NESHAPS, etc.)
 - (10) See section J for NESHAP/MACT requirements
- ** Refer to section F and G of this permit to determine the monitoring, recordkeeping and reporting requirements for this device.

**FACILITY PERMIT TO OPERATE
3M COMPANY**

SECTION D: DEVICE ID INDEX

**The following sub-section provides an index
to the devices that make up the facility
description sorted by device ID.**

**FACILITY PERMIT TO OPERATE
 3M COMPANY
 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D32	1	1	3
D33	1	1	3
D34	1	1	3
D36	1	1	3
D37	1	1	3
D38	1	1	3
C39	1	1	3
C40	2	1	3
D42	2	1	4
D43	2	1	4
D44	2	1	4
D45	2	1	4
D46	2	1	4
D47	2	1	4
D48	2	1	4
D49	2	1	4
D50	2	1	4
D51	2	1	4
D52	2	1	4
D53	3	1	4
D54	2	1	4
D55	3	1	4
D56	3	1	4
D57	3	1	4
D58	3	1	4
D59	3	1	4
D61	3	1	4
D62	3	1	4
D63	3	1	4
D64	3	1	4
D65	4	1	4
D66	3	1	4
D67	3	1	4
C68	4	1	4
D69	4	1	4

**FACILITY PERMIT TO OPERATE
 3M COMPANY
 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D70	4	1	4
D71	4	1	4
D72	4	1	4
D73	4	1	4
D74	4	1	4
D75	5	1	4
D76	6	1	4
D77	5	1	4
D78	5	1	4
D79	5	1	4
D80	5	1	4
D81	5	1	4
D82	5	1	4
D83	5	1	4
D84	6	1	4
D85	5	1	4
D86	6	1	4
D87	6	1	4
D88	6	1	4
D89	6	1	4
D90	6	1	4
D91	6	1	4
D92	6	1	4
D93	6	1	4
D94	6	1	4
D95	6	1	4
D96	7	1	4
D97	7	1	4
D100	7	1	4
C105	8	1	4
C106	8	1	4
D107	8	1	5
D108	8	1	5
D113	8	1	5
D140	8	1	5

**FACILITY PERMIT TO OPERATE
 3M COMPANY
 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D143	9	1	5
D144	9	1	5
D147	9	1	5
D151	9	1	5
D152	9	1	5
D159	9	1	6
D160	10	1	6
D161	10	1	6
D162	10	1	6
D163	10	1	6
D164	10	1	6
C165	10	1	6
D166	10	1	7
D167	10	1	7
D168	10	1	7
D169	11	1	7
D170	11	1	7
D171	11	1	7
C172	11	1	7
D173	11	1	8
D174	12	1	8
D175	12	1	8
D176	15	1	9
D177	12	1	8
D178	12	1	8
D179	12	1	8
D180	12	1	8
D181	13	1	8
D182	13	1	8
D183	13	1	8
D184	13	1	8
D185	13	1	8
D186	13	1	8
D186	17	1	9
D187	14	1	8

**FACILITY PERMIT TO OPERATE
 3M COMPANY
 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D187	17	1	9
D188	11	1	8
D188	15	1	9
D188	29	1	11
C189	14	1	8
C190	14	1	8
C191	14	1	8
D192	14	1	9
D193	15	1	9
D194	15	1	9
D195	16	1	9
D196	16	1	9
D197	16	1	9
D198	16	1	9
D199	16	1	9
D200	17	1	9
D201	17	1	9
D202	11	1	8
D202	15	1	9
D202	29	1	11
C203	17	1	9
C204	17	1	9
C205	18	1	9
D206	18	1	10
D207	18	1	10
D208	18	1	10
D209	18	1	10
D210	18	1	10
D211	18	1	10
D212	18	1	10
D213	18	1	10
D214	19	1	10
D215	19	1	10
D216	19	1	10
D217	19	1	10

**FACILITY PERMIT TO OPERATE
 3M COMPANY
 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D218	19	1	10
D219	19	1	10
D220	19	1	10
D221	19	1	10
D222	19	1	10
D223	19	1	10
D224	19	1	10
D225	20	1	10
D226	20	1	10
D227	20	1	10
D228	20	1	10
D229	20	1	10
D230	20	1	10
D231	20	1	10
D232	20	1	10
D233	20	1	10
D234	20	1	10
D235	21	1	10
D236	21	1	10
D237	21	1	10
D238	21	1	10
D239	21	1	10
D240	21	1	10
D241	21	1	10
D242	21	1	10
D243	22	1	10
D244	22	1	10
D245	22	1	10
D246	22	1	10
D247	22	1	10
D248	22	1	10
D249	22	1	10
D250	22	1	10
D251	23	1	10
D252	23	1	10

**FACILITY PERMIT TO OPERATE
 3M COMPANY
 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D253	23	1	10
D254	23	1	10
D255	23	1	10
D256	23	1	10
D257	23	1	10
D258	23	1	10
D259	24	1	10
D260	24	1	10
D261	24	1	10
D262	24	1	10
D263	24	1	10
D264	24	1	10
D265	24	1	10
D266	24	1	10
D267	25	1	10
D268	25	1	10
D269	25	1	10
D270	25	1	10
D271	25	1	10
D272	25	1	10
D273	25	1	10
D274	25	1	10
D275	26	1	10
D276	26	1	10
D277	26	1	10
D278	26	1	10
D279	26	1	10
D280	26	1	10
D281	26	1	10
D282	26	1	10
D283	27	1	10
D284	27	1	10
D285	27	1	10
D286	27	1	10
D287	27	1	10

**FACILITY PERMIT TO OPERATE
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 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D288	27	1	10
D289	27	1	10
D290	27	1	10
D291	28	1	10
D292	28	1	10
D293	28	1	10
D294	28	1	10
D295	28	1	10
D296	28	1	10
D297	28	1	10
D298	28	1	10
D299	29	1	10
D300	29	1	11
D301	29	1	11
D302	29	1	11
D303	29	1	11
D304	29	1	11
D305	29	1	11
D306	29	1	11
D307	30	1	11
D308	30	1	11
D309	30	1	11
D310	30	1	11
D312	30	1	11
D314	30	1	11
D316	17	1	9
D317	13	1	8
D317	17	1	9
D318	30	1	11
D319	30	1	11
C324	31	1	12
C325	31	1	12
C329	4	1	4
D330	3	1	4
D331	3	1	4

**FACILITY PERMIT TO OPERATE
 3M COMPANY**

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D332	4	1	4
D333	6	1	4
D334	5	1	4
D335	6	1	4
D336	7	1	4
D337	7	1	4
D338	7	1	4
D339	7	1	4
E342	31	2	0
E343	31	2	0
D347	1	1	3
D348	30	1	11
D349	30	1	11
D350	11	1	7
D351	11	1	7
D352	5	1	4
D353	7	1	4
D354	7	1	4
D356	7	1	4
D357	7	1	4
D358	8	1	4
D361	12	1	8
D362	15	1	9
D363	14	1	8
D363	17	1	9
D364	14	1	8
D365	14	1	8
D366	17	1	9
D367	18	1	9
C369	9	1	5
D370	8	1	5
D371	9	1	5
D372	9	1	5
D373	9	1	5
D374	8	1	4

**FACILITY PERMIT TO OPERATE
3M COMPANY**

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D375	8	1	4
D376	7	1	4
D378	31	3	0
D379	32	3	0
D380	12	1	8
D381	12	1	8
D383	15	1	9
D384	15	1	9
D388	11	1	8
D389	11	1	8
D390	14	1	9
D391	14	1	9

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

FACILITY CONDITIONS

F9.1 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, 3-2-1984; RULE 401, 11-9-2001]

F52.1 This facility is subject to the applicable requirements of the following rules or regulation(s):

District Rule 1157

40 CFR 60 Subpart UUU

40 CFR 60 Subpart OOO

[RULE 1157, 9-8-2006; 40CFR 60 Subpart OOO, 11-1-1985; 40CFR 60 Subpart UUU,
4-8-1994]

SYSTEM CONDITIONS

S20.1 For the purposes of determining compliance with District Rule 405, solid particulate matter emissions shall be based on the combined emissions from all points of this system.

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[RULE 405, 2-7-1986]

[Systems subject to this condition : Process 1, System 1 , 2 , 3 , 5 , 6 , 7 , 8 , 11]

DEVICE CONDITIONS

A. Emission Limits

A63.1 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT	QUANTITY	UNITS
VOC	Less than or equal to	3120	LBS IN ANY ONE MONTH

For the purposes of this condition, the limit(s) shall be based on the total combined emissions from the use of oil, adhesion promoter(s) and/or dust suppressant(s) from Cooler no. 1 (D182), Cooler no. 2 (D199) and Belt Conveyor no. 51 (D370).

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D182, D199, D370]

A103.1 The operator shall keep materials in process sufficiently moist to prevent fugitive dust emissions.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : D32, D33, D34]

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

B. Material/Fuel Type Limits

B59.1 The operator shall only use the following material(s) in this device :

Materials that contain dust suppressant (slate oil or any substitute) to prevent fugitive dust emissions.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : D140, D143, D144, D147, D151, D152, D371]

C. Throughput or Operating Parameter Limits

C1.2 The operator shall limit the material processed to no more than 172800 ton(s) in any one month.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D36]

C1.3 The operator shall limit the natural gas fuel usage to no more than 1.75e+07 cubic feet per month.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D36]

C1.4 The operator shall limit the unloading rate to no more than 43200 ton(s) in any one month.

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

For the purpose of this condition, unloading rate shall be defined as material offloaded to trucks or rail cars.

This limit shall be based on the total combined limit for equipment D151 and D152.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D151, D152]

- C1.5 The operator shall limit the material processed to no more than 324000 ton(s) in any one month.

For the purpose of this condition, material processed shall be defined as total material processed through crusher device D76.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D76]

- C1.6 The operator shall limit the gasoline dispensed to no more than 6000 gallon(s) in any one calendar month.

The operator shall submit the facility's monthly gasoline throughput data for the previous calendar year to the Executive Officer or representative on or before March 1 following each calendar year.

This fuel dispensing limit shall apply to the gasoline dispensed from all tanks at this facility.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

[Devices subject to this condition : D378, D379]

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

- C8.1 The operator shall use this equipment in such a manner that the flow rate being monitored, as indicated below, is not less than 45 gpm.

To comply with this condition, the operator shall install and maintain a(n) flow meter to accurately indicate the flow rate in the water supply line to the scrubber.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : C191, C205]

D. Monitoring/Testing Requirements

- D12.1 The operator shall install and maintain a(n) differential pressure gauge to accurately indicate the differential pressure across the bags.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : C40, C68, C105, C106, C189, C190, C203, C204, C324, C329, C369]

- D12.2 The operator shall install and maintain a(n) pressure gauge to accurately indicate the pressure in the water supply line to the scrubber.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : C191, C205]

- D12.3 The operator shall install and maintain a(n) non-resettable totalizing fuel meter to accurately indicate the fuel usage of the kiln.

[RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002]

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[Devices subject to this condition : D181, D198]

D12.4 The operator shall install and maintain a(n) non-resettable totalizing fuel meter to accurately indicate the fuel usage of the dryer.

[**RULE 1303(b)(2)-Offset, 5-10-1996; RULE 1303(b)(2)-Offset, 12-6-2002**]

[Devices subject to this condition : D168]

D28.1 The operator shall conduct source test(s) in accordance with the following specifications:

The test shall be conducted to determine the NOX emissions at the outlet.

The test shall be conducted to demonstrate compliance with all the requirements to maintain Super Compliant status under Rule 2012.

[**RULE 2012, 5-6-2005**]

[Devices subject to this condition : D181, D198]

D322.1 The operator shall perform annual inspection of the equipment and filter media for leaks, broken or torn filter media, and improperly installed filter media.

[**RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997**]

[Devices subject to this condition : C40, C68, C105, C106, C165, C172, C189, C190, C203, C204, C324, C329, C369]

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

D323.1 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:

- 1). 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
- 2). 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:

- 1). Stack or emission point identification;
- 2). Description of any corrective actions taken to abate visible emissions;
- 3). Date and time visible emission was abated; and
- 4). All visible emission observation records by operator or a certified smoke reader.

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : D32, D33, D34, D36, D37, D38, D42, D43, D44, D45, D46, D48, D49, D50, D51, D52, D53, D54, D55, D56, D57, D58, D59, D61, D62, D63, D64, D65, D66, D67, D69, D70, D71, D72, D73, D74, D75, D76, D77, D78, D79, D80, D81, D82, D83, D84, D85, D86, D87, D88, D89, D90, D91, D92, D93, D94, D95, D96, D97, D100, D107, D108, D113, D140, D143, D144, D147, D151, D152, D159, D160, D161, D162, D163, D164, D166, D167, D168, D169, D170, D171, D173, D174, D175, D176, D177, D178, D180, D181, D182, D183, D184, D185, D186, D187, D188, D192, D193, D194, D195, D197, D198, D199, D200, D201, D202, D206, D207, D208, D209, D210, D211, D212, D213, D214, D215, D216, D217, D218, D219, D220, D221, D222, D223, D224, D225, D226, D227, D228, D229, D230, D231, D232, D233, D234, D235, D236, D237, D238, D239, D240, D241, D242, D243, D244, D245, D246, D247, D248, D249, D250, D251, D252, D253, D254, D255, D256, D257, D258, D259, D260, D261, D262, D263, D264, D265, D266, D267, D268, D269, D270, D271, D272, D273, D274, D275, D276, D277, D278, D279, D280, D281, D282, D283, D284, D285, D286, D287, D288, D289, D290, D291, D292, D293, D294, D295, D296, D297, D298, D299, D300, D301, D302, D303, D304, D305, D306, D307, D308, D309, D310, D312, D314, D316, D317, D318, D319, D330, D331, D332, D333, D334, D335, D336, D337, D338, D339, D347, D348, D349, D350, D351, D352, D353, D354, D356, D357, D358, D361, D362, D363, D364, D365, D366, D367, D370, D371, D372, D373, D374, D375, D376, D380, D381, D383, D384, D388, D389, D390, D391]

D330.1 The operator shall have a person that has been trained in accordance with Rule 461 conduct a semi-annual inspection of the gasoline transfer and dispensing equipment. The first inspection shall be in accordance with Rule 461, Attachment B, the second inspection shall be in accordance with Rule 461, Attachment C, and the subsequent inspections shall alternate protocols. The operator shall keep records of the inspection and the repairs in accordance to Rule 461 and Section K of this Permit.

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : D378, D379]

D381.1 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:

- 1). Stack or emission point identification;
- 2). Description of any corrective actions taken to abate visible emissions; and
- 3). Date and time visible emission was abated.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C40, C68, C105, C106, C165, C172, C189, C190, C191, C203, C204, C205, C324, C325, C329, C369]

E. Equipment Operation/Construction Requirements

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

E71.1 The operator shall only be responsible to perform the scheduled weekly, quarterly, and annual inspections, as outlined in the ARB approved installation, operation, and maintenance manual for the Morrison Bros. Phase I EVR system, as well as all the required vapor recovery system tests as per the current and appropriate ARB Executive Order for this equipment unless SCAQMD Rule 461 requires a more frequent testing or inspection schedule.

[RULE 461, 6-3-2005; RULE 461, 4-6-2012]

[Devices subject to this condition : D378, D379]

E102.1 The operator shall discharge dust collected in this equipment only into closed containers.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002]

[Devices subject to this condition : C39, C40]

E193.1 The operator shall operate and maintain this equipment according to the following requirements:

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

The baghouse pressure differential across the filter bags shall be maintained between 1" and 6" of water column whenever the equipment it serves is in operation.

The operator shall operate and maintain a pressure differential gauge to measure and indicate the pressure differential across the baghouse filter bags pursuant to the operation and maintenance requirements in 40 CFR Part 64.7. The pressure differential across the filter bags shall be recorded at least once a day.

For the purpose of this condition, a deviation shall be defined as when the pressure differential across the filter bags is less than 1" of water column or more than 6" of water column occurs during the normal operation of the equipment it serves.

Whenever a deviation occurs, the operator shall inspect this equipment to identify the cause of such a deviation, take immediate corrective action to maintain the pressure differential across the filter bags between 1" and 6" of water column, and keep records of the duration and cause (including unknown cause, if applicable) of the deviation and the corrective actions taken.

All deviations shall be reported to the AQMD on a semi-annual reporting period specified in Condition No. 23, Section K of this permit. The semi-annual monitoring report shall include the total operating time of this equipment and the total accumulated duration of all deviations for each semi-annual reporting period specified in Condition No. 23 in Section K of this permit.

The operator shall submit an application with an Quality Improvement Plan (QIP) in accordance with 40 CFR Part 64.8 to the AQMD if more than six deviations occur in any semi-annual reporting period specified in Condition No. 23 in Section K of this permit. The required QIP shall be submitted to the AQMD within 90 calendar days after the due date for the semi-annual monitoring report.

The operator shall inspect and maintain all components of this equipment on an annual basis in accordance with the manufacturer's specifications.

The operator shall keep adequate records in a format that is acceptable to the AQMD to demonstrate compliance with all applicable requirements specified in this

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

condition and 40 CFR Part 64.9 for a minimum of five years

[40CFR Part 64, 10-22-1997]

[Devices subject to this condition : C40, C105, C106, C172, C189, C190, C203, C204, C329]

E193.2 The operator shall operate and maintain this equipment according to the following requirements:

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

The water flow rate to the scrubber shall be maintained at a minimum 45 gallons per minute whenever the equipment it serves is in operation.

The operator shall operate and maintain a water flow rate monitor to measure and indicate the water flow rate to the scrubber pursuant to the operation and maintenance requirements in 40 CFR Part 64.7. The water flow rate to the scrubber shall be recorded at least once a day.

For the purpose of this condition, a deviation shall be defined as when the water flow rate to the scrubber is less than 45 gallons per minute during the normal operation of the equipment it serves.

Whenever a deviation occurs, the operator shall inspect this equipment to identify the cause of such a deviation, take immediate corrective action to maintain the water flow rate to the scrubber at a minimum 45 gallons per minute, and keep records of the duration and cause (including unknown cause, if applicable) of the deviation and the corrective actions taken.

All deviations shall be reported to the AQMD on a semi-annual reporting period specified in Condition No. 23, Section K of this permit. The semi-annual monitoring report shall include the total operating time of this equipment and the total accumulated duration of all deviations for each semi-annual reporting period specified in Condition No. 23 in Section K of this permit.

The operator shall submit an application with an Quality Improvement Plan (QIP) in accordance with 40 CFR Part 64.8 to the AQMD if more than six deviations occur in any semi-annual reporting period specified in Condition No. 23 in Section K of this permit. The required QIP shall be submitted to the AQMD within 90 calendar days after the due date for the semi-annual monitoring report.

The operator shall inspect and maintain all components of this equipment on a quarterly basis in accordance with the manufacturer's specifications or good engineering practice.

The operator shall keep adequate records in a format that is acceptable to the AQMD

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

to demonstrate compliance with all applicable requirements specified in this condition and 40 CFR Part 64.9 for a minimum of five years

[40CFR Part 64, 10-22-1997]

[Devices subject to this condition : C191, C205]

E193.3 The operator shall install this equipment according to the following requirements:

New equipment installations and subsequent service and repairs for any certified component for which this permit was issued, shall only be performed by a current and certified person who has successfully completed the manufacturer's training course and appropriate International Code Council (ICC) certification. Completion of any SCAQMD training course does not constitute as a substitute for this requirement. Proof of successful completion of any manufacturer training course shall be with the manufacturer

[RULE 461, 6-3-2005; RULE 461, 4-6-2012]

[Devices subject to this condition : D378, D379]

E201.1 The operator shall remove the materials collected in this equipment to enclosed containers or back to process.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C68, C105, C106, C165, C172, C189, C190, C203, C204, C325, C329, C369]

H. Applicable Rules

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

H23.1 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1122

[RULE 1122, 10-1-2004; RULE 1122, 5-1-2009]

[Devices subject to this condition : E342]

H23.3 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	461

[RULE 461, 6-3-2005; RULE 461, 4-6-2012]

[Devices subject to this condition : D378, D379]

H23.4 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
PM	District Rule	1155

[RULE 1155, 12-4-2009]

[Devices subject to this condition : C106, C191, C205]

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

H23.5 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	463

[RULE 463, 5-6-2005]

[Devices subject to this condition : D378]

J. Rule 461

J109.1 The operator shall use, except for diesel transfer, the phase I vapor recovery system in full operation whenever this equipment is in use. This system shall be installed, operated and maintained to meet all CARB certification requirements.

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 461, 6-3-2005; RULE 461, 4-6-2012]

[Devices subject to this condition : D378]

J110.1 The operator shall use, except for diesel transfer, the phase II vapor recovery system in full operation whenever gasoline from this equipment is dispensed to motor vehicles as defined in Rule 461. This system shall be installed, operated and maintained to meet all CARB certification requirements.

[RULE 461, 6-3-2005; RULE 461, 4-6-2012]

[Devices subject to this condition : D379]

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

J373.1 The operator shall comply with the following gasoline transfer and dispensing requirements:

a). A leak rate and cracking pressure test of pressure/vacuum relief vent valves shall be conducted within ten (10) days after the start of operation of the Phase I EVR equipment and at least once every three (3) years thereafter to determine the pressure and vacuum at which the pressure/vacuum vent valve actuates, and to determine the volumetric leak rate at a given pressure. The test shall be conducted in accordance with the test procedure method TP-201.1E (October 8, 2003).

b). Results shall be submitted by the tester electronically or other means specified by the Executive Officer within seventy-two (72) hours after each test is conducted.

c). The SCAQMD shall be notified electronically or other means as specified by the Executive Officer at least seventy-two (72) hours prior to any of the above mentioned testing requirements. Such notification shall include the name of the owner or operator; the name of the contractor; the location of the facility; and the scheduled start and completion dates of the tests to be performed.

[RULE 461, 6-3-2005; RULE 461, 4-6-2012]

[Devices subject to this condition : D378]

J373.2 The operator shall comply with the following gasoline transfer and dispensing requirements:

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

a). The Phase II vapor recovery systems shall be installed, operated, and maintained such that the maximum allowable pressure through the system including nozzle, vapor hose, swivels, and underground piping does not exceed the dynamic back pressures described by the California Air Resources Board (CARB) Executive Order by which the system was certified:

Nitrogen Flowrates (CFH)	Dynamic Back Pressure (Inches of Water)
60	0.35
80	0.62

b). If the CARB Executive Order requires the installation of a liquid removal device, a liquid removal rate test shall be conducted to demonstrate the removal of gasoline from the vapor passage of the coaxial hose. The test shall be conducted within thirty days of initial installation and in accordance with CARB test procedure Method TP-201.6.

c). A static pressure performance test shall be conducted to quantify the vapor tightness of the above ground storage tank. The test shall be conducted in accordance with the latest version of Exhibit 4 of CARB Executive Order VR-402, as a performance test and as a reverification test.

d). Dynamic back pressure tests shall be conducted to determine the Phase II system vapor recovery back pressures. The tests shall be conducted in accordance with CARB Test Procedure TP-201.4 (July 3, 2002), Methodology 1 as a performance test and as a reverification test.

e). All testing shall be conducted in accordance with the most recent Rule 461 amendment or CARB Executive Order requirements, whichever is more stringent.

f). The test results shall be submitted by the tester electronically or other means specified by the Executive Officer or representative within 72 hours after each test is conducted. The final test results demonstrating compliance shall be submitted to the Executive Officer or representative within 14 days from the date when all tests were passed.

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

g). The test reports shall include the required records of all tests performed, test data, current SCAQMD ID number for the equipment location, the equipment permit to operate or application number, the SCAQMD ID number of the company performing the tests, a statement whether the equipment tested meets the required standards, and the name, SCAQMD ID number and signature of the person responsible for conducting the tests.

[RULE 461, 6-3-2005; RULE 461, 4-6-2012]

[Devices subject to this condition : D379]

K. Record Keeping/Reporting

K67.1 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

For architectural applications where no thinners, reducers, or other VOC containing materials are added, maintain semi-annual records for all coating consisting of (a) coating type, (b) VOC content as supplied in grams per liter (g/l) of materials for low-solids coatings, (c) VOC content as supplied in g/l of coating, less water and exempt solvent, for other coatings.

For architectural applications where thinners, reducers, or other VOC containing materials are added, maintain daily records for each coating consisting of (a) coating type, (b) VOC content as applied in grams per liter (g/l) of materials used for low-solids coatings, (c) VOC content as applied in g/l of coating, less water and exempt solvent, for other coatings.

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : E343]

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

K67.2 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

the name of the person performing the inspection and/or maintenance of the filter media

the date, time and results of the inspection

the date, time and description of any maintenance or repairs resulting from the inspection

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C40, C68, C105, C106, C165, C172, C189, C190, C203, C204, C324, C329, C369]

K67.3 The operator shall keep records, in a manner approved by the District, for the following parameter(s) or item(s):

daily flow rate to the scrubber

[RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997]

[Devices subject to this condition : C191, C205]

K171.1 The operator shall notify the District if any of the following situations occur:

FACILITY PERMIT TO OPERATE 3M COMPANY

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

The operator shall comply with the terms and conditions set forth below:

The SCAQMD shall be notified at least 72 hours prior to the installation and performance testing of the new vapor recovery equipment mentioned in this permit, so that SCAQMD staff may, at its discretion opt to witness the installation and/or testing. Such notification shall include the name of the owner or operator, the name of the contractor, the location of the facility, and the scheduled start and completion dates of the tests to be performed.

The SCAQMD shall be notified at least 72 hours prior to back-filling any underground piping. Such notification shall include the name of the owner or operator, the name of the contractors, the location of the facility, and the scheduled start and completion dates of the back-filling procedure. The back-filling procedure shall not commence until inspected by a SCAQMD inspector.

The SCAQMD shall be notified at least 72 hours prior to any tests specified in the permit for this equipment. Such notification shall include the name of the owner or operator, the name of the contractor, the location of the facility, and the scheduled start and completion dates of the tests to be performed.

[**RULE 461, 6-3-2005; RULE 461, 4-6-2012**]

[Devices subject to this condition : D378, D379]