



South Coast Air Quality Management District

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

January 16, 2013

Mr. Clarence Jessie
Georgia-Pacific Gypsum LLC (ID 152857)
1401 Pier D Street
Long Beach, CA 90802

Re: Title V Renewal Permit, Georgia-Pacific Gypsum LLC, ID# 152857
Application No. 539581

Dear Mr. Jessie:

Please find enclosed your Title V Permit renewal for equipment located at 1401 Pier D Street, Long Beach, CA 90802. The Title V permit renewal was submitted to USEPA on November 29, 2012 for their 45-day review and the 30-day public notice was published on October 17, 2012. No comments from USEPA or the public were received. The Title V permit renewal is issued for a new 5 year term beginning January 15, 2013 and ending on January 14, 2018.

Please review all sections of your Title V renewal permit carefully and make sure that you comply with all requirements including, but not limited to, the monitoring, recordkeeping, and reporting requirements (i.e. semi-annual monitoring report, annual compliance certification report, etc.) specified in this Title V permit. All reporting forms can be downloaded from the AQMD website at <http://www.aqmd.gov/titlev/apply.html>.

Thank you for providing the necessary information that allowed the AQMD to complete the evaluation of your facility with respect to the federal Title V requirements. Questions concerning your Title V permit should be directed Mr. Richard Hawrylew at (909) 396-2657 or rhawrylew@aqmd.gov.

Sincerely,

Brian L. Yeh
Senior Engineering Manager
Mechanical, Chemical & Public Services

BLY:AYL:DR:RH02

Enclosure

cc: Team Unit File

FACILITY PERMIT TO OPERATE

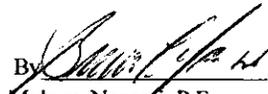
**GEORGIA-PACIFIC GYPSUM LLC
1401 PIER D ST
LONG BEACH, CA 90802**

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Barry R. Wallerstein, D. Env.
EXECUTIVE OFFICER

By 
Mohsen Nazemi, P.E.
Deputy Executive Officer
Engineering & Compliance



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

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**FACILITY PERMIT TO OPERATE
GEORGIA-PACIFIC GYPSUM LLC**

SECTION A: FACILITY INFORMATION

LEGAL OWNER &/OR OPERATOR: GEORGIA-PACIFIC GYPSUM LLC

LEGAL OPERATOR (if different than owner):

EQUIPMENT LOCATION: 1401 PIER D ST
LONG BEACH, CA 90802-1091

MAILING ADDRESS: 1401 PIER D ST
LONG BEACH, CA 90802-1091

RESPONSIBLE OFFICIAL: DAVID J. NEAL

TITLE: REGIONAL MANAGER

TELEPHONE NUMBER: (562) 435-7711

CONTACT PERSON: ROB DAVIDSON

TITLE: ENVIRONMENTAL COORDINATOR

TELEPHONE NUMBER: (562) 435-7711

TITLE V PERMIT ISSUED: January 15, 2013

TITLE V PERMIT EXPIRATION DATE: January 14, 2018

TITLE V		RECLAIM	
YES	NOx:	YES	
	SOx:	NO	
	CYCLE:	2	
	ZONE:	COASTAL	



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

The annual allocation of NOx RECLAIM Trading Credits (RTCs) for this facility is calculated pursuant to Rule 2002. Total NOx emission shall not exceed such annual allocations unless the operator obtains RTCs corresponding to the facility's increased emissions in compliance with Rules 2005 and 2007.

The level of Starting Allocation plus Non-Tradable Credits used to determine compliance with Rule 2005(c)(4) and applicability of Rule 2005(e) - Trading Zone Restrictions is listed on the last page of this Section.

The following table lists the annual allocations that were issued to this facility and the amounts of RTCs held by this facility on the day of printing this Section.

RECLAIM POLLUTANT ANNUAL ALLOCATION (POUNDS)

Year Begin End (month/year)	Zone	NOx RTC Initially Allocated	NOx RTC ¹ Holding as of 07/01/2012 (pounds)	Non-Tradable ² Non-Usable RTCs (pounds)
7/2009 6/2010	Coastal	34656	3356	0
7/2010 6/2011	Coastal	34656	294	0
7/2011 6/2012	Coastal	34656	327	0
7/2012 6/2013	Coastal	34656	327	0
7/2013 6/2014	Coastal	34656	0	0
7/2014 6/2015	Coastal	34656	11827	0
7/2015 6/2016	Coastal	34656	11827	0
7/2016 6/2017	Coastal	34656	11827	0
7/2017 6/2018	Coastal	34656	11827	0
7/2018 6/2019	Coastal	34656	11827	0
7/2019 6/2020	Coastal	34656	11827	0
7/2020 6/2021	Coastal	34656	11827	0
7/2021 6/2022	Coastal	34656	11827	0
7/2022 6/2023	Coastal	34656	11827	0
7/2023 6/2024	Coastal	34656	11827	0
7/2024 6/2025	Coastal	34656	11827	0
7/2025 6/2026	Coastal	34656	11827	0

Footnotes:

1. This number may change due to pending trades, emissions reported under Quarterly Certification of Emissions Report (QCER) and Annual Permit Emission Program (APEP) Report required pursuant to Rule 2004, or deductions made pursuant to Rule 2010(b). The most recent total RTC information can be obtained from the District's RTC Listing.
2. The use of such credits is subject to restrictions set forth in paragraph (f)(1) of Rule 2002.

**FACILITY PERMIT TO OPERATE
 GEORGIA-PACIFIC GYPSUM LLC**

SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

The annual allocation of NOx RECLAIM Trading Credits (RTCs) for this facility is calculated pursuant to Rule 2002. Total NOx emission shall not exceed such annual allocations unless the operator obtains RTCs corresponding to the facility's increased emissions in compliance with Rules 2005 and 2007.

The level of Starting Allocation plus Non-Tradable Credits used to determine compliance with Rule 2005(c)(4) and applicability of Rule 2005(e) - Trading Zone Restrictions is listed on the last page of this Section.

The following table lists the annual allocations that were issued to this facility and the amounts of RTCs held by this facility on the day of printing this Section.

RECLAIM POLLUTANT ANNUAL ALLOCATION (POUNDS)

Year Begin End (month/year)	Zone	NOx RTC Initially Allocated	NOx RTC ¹ Holding as of 07/01/2012 (pounds)	Non-Tradable ² Non-Usable RTCs (pounds)
7/2026 6/2027	Coastal	34656	11827	0

Footnotes:

1. This number may change due to pending trades, emissions reported under Quarterly Certification of Emissions Report (QCER) and Annual Permit Emission Program (APEP) Report required pursuant to Rule 2004, or deductions made pursuant to Rule 2010(b). The most recent total RTC information can be obtained from the District's RTC Listing.
2. The use of such credits is subject to restrictions set forth in paragraph (f)(1) of Rule 2002.



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

SECTION B: RECLAIM ANNUAL EMISSION ALLOCATION

The annual allocation of RECLAIM Trading Credits (RTCs) for this facility is calculated pursuant to Rule 2002. If the facility submits a permit application to increase in an annual allocation to a level greater than the facility's starting Allocation plus Non-Tradable credits as listed below, the application will be evaluated for compliance with Rule 2005 (c)(4). Rule 2005 (e) - Trading Zone Restrictions applies if an annual allocation is increased to a level greater than the facility's Starting Allocation plus Non-Tradable Credits:

Year		Zone	NOx RTC	Non-Tradable
Begin	End		Starting Allocation	Credits(NTC)
(month/year)			(pounds)	(pounds)
7/1994	6/1995	Coastal	95914	0

**FACILITY PERMIT TO OPERATE
GEORGIA-PACIFIC GYPSUM LLC**

SECTION C: FACILITY PLOT PLAN

(TO BE DEVELOPED)



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

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: GYPSUM ORE RECEIVING AND STORAGE					P20.1
HOPPER, GYPSUM, RECEIVING A/N: 472593	D218	C216		PM: (9) [RULE 405, 2-7-1986]	C1.1, D323.1
CONVEYOR, BELT, NO. 1, GYPSUM A/N: 472593	D219	C216		PM: (9) [RULE 405, 2-7-1986]	C1.1, D323.1, H23.3
HOPPER, GYPSUM, RECEIVING AND TRANSFER A/N: 472593	D1	C6		PM: (9) [RULE 405, 2-7-1986]	C1.1, D323.1
CONVEYOR, BELT, NO. 2, GYPSUM A/N: 472593	D3	C6		PM: (9) [RULE 405, 2-7-1986]	C1.1, D323.1
STORAGE SILO, GYPSUM, STORAGE DOME, 35,000-TON CAPACITY, HEIGHT: 72 FT 10 IN; DIAMETER: 175 FT 4 IN WITH A/N: 472593 CONVEYOR, BELT, STACKING, INTERNAL	D5			PM: (9) [RULE 405, 2-7-1986]	C1.1, D323.1
BAGHOUSE, FLECKLEEN, MODEL 84UOC96SS, 20-HP, WITH FABRIC FILTER, 960 SQ.FT.; 96 BAGS A/N: 472592	C216	D218 D219		PM: (9) [RULE 404, 2-7-1986]	D12.1, D322.1, D381.1, E201.1, K67.1
BAGHOUSE, SKY-KLEEN, MODEL PCS 5-8, 500 SQ.FT. WITH A/N: 472612 CONVEYOR, SCREW	C6	D1 D3		PM: (9) [RULE 404, 2-7-1986]	D322.1, D381.1, E201.1, K67.1
Process 2: GYPSUM ORE CRUSHING, CONVEYING AND STORAGE					
FEEDER, VIBRATING, GYPSUM, 7 TOTAL A/N: 472602	D7			PM: (9) [RULE 405, 2-7-1986]	C1.2, D323.1
CONVEYOR, BELT, NO. 4, GYPSUM A/N: 472602	D14	C265		PM: (9) [RULE 405, 2-7-1986]	C1.2, 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 GEORGIA-PACIFIC GYPSUM LLC

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 2: GYPSUM ORE CRUSHING, CONVEYING AND STORAGE					
CRUSHER, PRIMARY GYPSUM A/N: 472602	D15	C265		PM: (9) [RULE 405, 2-7-1986]	C1.2, D323.1
BUCKET ELEVATOR, GYPSUM A/N: 472602	D16	C265		PM: (9) [RULE 405, 2-7-1986]	C1.2, D323.1, H23.3
CONVEYOR, BELT, NO. 5, CRUSHED GYPSUM TRANSFER A/N: 472602	D20	C36 C265		PM: (9) [RULE 405, 2-7-1986]	C1.2, D323.1
CRUSHER, RECYCLE GYPSUM A/N: 472602	D22			PM: (9) [RULE 405, 2-7-1986]	C1.2, D323.1, H23.3
CONVEYOR, SCREW, NO. 2, GYPSUM, RECYCLE CRUSHER DISCHARGE A/N: 472602	D23			PM: (9) [RULE 405, 2-7-1986]	C1.2, D323.1
CONVEYOR, SCREW, NO. 1, PAPER SEPARATION A/N: 472602	D29	C36		PM: (9) [RULE 405, 2-7-1986]	C1.2, D323.1
HOPPER, PAPER WASTE A/N: 472602	D234			PM: (9) [RULE 405, 2-7-1986]	D323.1
HAMMERMILL, RECYCLE A/N: 472602	D210	C36		PM: (9) [RULE 405, 2-7-1986]	D323.1, H23.3
CONVEYOR, SCREW, NO. 4, GYPSUM, RECYCLE A/N: 472602	D24			PM: (9) [RULE 405, 2-7-1986]	C1.2, D323.1
BUCKET ELEVATOR, RECYCLE GYPSUM A/N: 472602	D25	C36		PM: (9) [RULE 405, 2-7-1986]	C1.2, D323.1, H23.3
CONVEYOR, SCREW, NO. 3601, GYPSUM, BAGHOUSE RECLAIM A/N: 472602	D26			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, BELT, NO. 6, CRUSHED GYPSUM TRANSFER, SILOS LOADING A/N: 472602	D21	C34 C36		PM: (9) [RULE 405, 2-7-1986]	C1.2, 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 GEORGIA-PACIFIC GYPSUM LLC

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 2: GYPSUM ORE CRUSHING, CONVEYING AND STORAGE					
STORAGE SILO, NO. 02-1, GYPSUM, 8,000 CU.FT. CAPACITY A/N: 472602	D28	D27		PM: (9) [RULE 405, 2-7-1986]	C1.2, D323.1
STORAGE SILO, NO. 02-2, GYPSUM, 8,000 CU.FT. CAPACITY A/N: 472602	D27	D28 C34		PM: (9) [RULE 405, 2-7-1986]	C1.2, D323.1
BAGHOUSE, NO. 35-1, AIR PURIFICATION, 378 SQ.FT.; 24 BAGS A/N: 472594	C36	D20 D21 D25 D29 D210		PM: (9) [RULE 404, 2-7-1986]	D322.1, D381.2, E201.1, K67.1
BAGHOUSE, U.S. FILTRATION, MODEL 1114-PTHH-60-6, 30-HP EXHAUST BLOWER, WITH FABRIC FILTER, 1200 SQ.FT.; 153 BAGS A/N: 476741	C265	D14 D15 D16 D20		PM: (9) [RULE 404, 2-7-1986]	D322.1, D381.1, E201.1, K67.1
Process 3: GYPSUM MILLING, CALCINING, AND PACKAGING					
MILL, ROLL, NO. 04-2, GYPSUM, RAYMOND A/N: 472603	D40	C34		PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, SURGE, NO. 05-1, GYPSUM, 2000 CU.FT. A/N: 472603	D71	D51		PM: (9) [RULE 405, 2-7-1986]	D323.1
FEEDER, SCREW, KETTLE NO. 6 CHARGING A/N: 472603	D235			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, PNEUMATIC, GYPSUM A/N: 472603	D42			PM: (9) [RULE 405, 2-7-1986]	D323.1
CYCLONE, NO. 03-5, SEPARATOR A/N: 472603	D44			PM: (9) [RULE 405, 2-7-1986]	D323.1
MILL, ROLL, NO. 03-2, GYPSUM, RAYMOND A/N: 472603	D43	C34		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 GEORGIA-PACIFIC GYPSUM LLC

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: GYPSUM MILLING, CALCINING, AND PACKAGING					
CONVEYOR, AIR SLIDE, NO. 09-2 THRU 09-9, HOT PIT DISCHARGE, 8 TOTAL A/N: 472603	D81			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, AIR SLIDE, NO. 12-1 A/N: 472603	D106	D105		PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, SURGE, NO. 05-2, GYPSUM, 2000 CU.FT. A/N: 472603	D75	D51		PM: (9) [RULE 405, 2-7-1986]	D323.1
FEEDER, SCREW, KETTLE NO. 7 CHARGING/PNEUMATIC CONVEYOR AND D49 FEED HOPPER A/N: 472603	D236			PM: (9) [RULE 405, 2-7-1986]	D323.1
HOPPER, PNEUMATIC CONVEYOR D49 FEED A/N: 472603	D238			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, PNEUMATIC A/N: 472603	D49			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, GYPSUM, HEIGHT: 11 FT 4 IN; DIAMETER: 8 FT A/N: 472603	D39	C254		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 GEORGIA-PACIFIC GYPSUM LLC

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: GYPSUM MILLING, CALCINING, AND PACKAGING					
FURNACE, CALCINING, NO. 07-2, NATURAL GAS, WITH LOW NOX BURNER, FLUE GAS RECIRCULATION, 20 MMBTU/HR WITH A/N: 472603 BURNER, NATURAL GAS, MAXON, MODEL 18M KINEDIZER, WITH LOW NOX BURNER, 2 TOTAL; 20 MMBTU/HR	D76	C135	NOX: LARGE SOURCE**	CO: 35 LBS/MMSCF NATURAL GAS (5A) [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: 30 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]	C1.5, C1.7, D29.1, D323.1, H23.1
BIN, SURGE, NO. 10-1, HOT PIT, 2000 CU.FT. A/N: 472603	D77	D105		PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, AIR SLIDE, NO. 10-2 THRU 10-9, HOT PIT DISCHARGE, 8 TOTAL A/N: 472603	D89			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, AIR SLIDE, NO. 13-1 A/N: 472603	D105	D77 D106		PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, SURGE, NO. 05-3, GYPSUM, 2000 CU.FT. A/N: 472603	D78	D51		PM: (9) [RULE 405, 2-7-1986]	D323.1
FEEDER, SCREW, KETTLE NO. 8 CHARGING A/N: 472603	D237			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 GEORGIA-PACIFIC GYPSUM LLC

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: GYPSUM MILLING, CALCINING, AND PACKAGING					
FURNACE, CALCINING, NO. 08-2, NATURAL GAS, WITH LOW NOX BURNER, 20 MMBTU/HR WITH A/N: 472603 BURNER, NATURAL GAS, NORTH AMERICAN, MODEL HI-RAM LNI 4575-10-B-LNI, WITH LOW NOX BURNER, 2 TOTAL; 20 MMBTU/HR	D79	C220	NOX: LARGE SOURCE**	CO: 17.8 LBS/MMSCF NATURAL GAS (5A) [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: 30 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]	C1.5, C1.7, D29.1, D323.1, H23.1
BIN, SURGE, NO. 11-1, HOT PIT, 2000 CU.FT. A/N: 472603	D80			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, AIR SLIDE, NO. 11-2 THRU 11-9, HOT PIT DISCHARGE, 8 TOTAL A/N: 472603	D97			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, AIR SLIDE, NO. 12-2 A/N: 472603	D107			PM: (9) [RULE 405, 2-7-1986]	D323.1
BUCKET ELEVATOR, NO. 14-1 A/N: 472603	D111	C139		PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, AIR SLIDE, NO. 14-3 A/N: 472603	D109	C139		PM: (9) [RULE 405, 2-7-1986]	D323.1
BUCKET ELEVATOR, NO. 16-1 A/N: 472603	D114	C139		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 GEORGIA-PACIFIC GYPSUM LLC

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: GYPSUM MILLING, CALCINING, AND PACKAGING					
CONVEYOR, SCREW, NO. 16-3, GYPSUM A/N: 472603	D50			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, NO. 11, STUCCO, 5,000 CU.FT. CAPACITY A/N: 472603	D117	C141		PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, NO. 17B A/N: 472603	D120			PM: (9) [RULE 405, 2-7-1986]	D323.1
BUCKET ELEVATOR, NO. 17-1 A/N: 472603	D147			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, D A/N: 472603	D239			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, A A/N: 472603	D148			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, E A/N: 472603	D149			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, C A/N: 472603	D240			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, B A/N: 472603	D241			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, NO. 7, STUCCO, 3,210 CU.FT. CAPACITY A/N: 472603	D125	D126 D128 C139		PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, NO. 8, STUCCO, 3,210 CU.FT. CAPACITY A/N: 472603	D126	D125 D127		PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, NO. 9, STUCCO, 3,210 CU.FT. CAPACITY A/N: 472603	D127	D126 D128		PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, NO. 10, STUCCO, 3,210 CU.FT. CAPACITY A/N: 472603	D128	D125 D127		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 GEORGIA-PACIFIC GYPSUM LLC

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: GYPSUM MILLING, CALCINING, AND PACKAGING					
CONVEYOR, SCREW, NO. 7 A/N: 472603	D142			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, NO. 8 A/N: 472603	D143			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, NO. 9 A/N: 472603	D144			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, NO. 10 A/N: 472603	D145			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, NO. 20 A/N: 472603	D146			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, NO. 17C A/N: 472603	D118			PM: (9) [RULE 405, 2-7-1986]	D323.1
PUMP, NO. 24-1, STUCCO A/N: 472603	D152			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, F A/N: 472603	D150			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, G A/N: 472603	D151			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, NO. 12, STUCCO, 1953 CU.FT. A/N: 472603	D153	C189		PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, STORAGE SILO NO. 12 DISCHARGE A/N: 472603	D258			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, STUCCO, RECIRCULATING A/N: 472603	D156			PM: (9) [RULE 405, 2-7-1986]	D323.1
BUCKET ELEVATOR, RECIRCULATING A/N: 472603	D157			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 GEORGIA-PACIFIC GYPSUM LLC

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: GYPSUM MILLING, CALCINING, AND PACKAGING					
BAGHOUSE, NO. 26-1, AIR PURIFICATION, 2446 SQ.FT. WITH A/N: 472589 CONVEYOR, SCREW, GYPSUM, BAGHOUSE RECLAIM	C34 D35	D21 D27 D40 D43 D51 D74		PM: (9) [RULE 404, 2-7-1986]	D322.1, D381.1, E102.1, E193.1, K67.1
BAGHOUSE, NO. 06-6, AIR PURIFICATION, 1380 SQ.FT. WITH A/N: 472611 CONVEYOR, SCREW, NO. 06-8	C133 D134	D72		PM: (9) [RULE 404, 2-7-1986]	D322.1, D381.1, E193.1, E201.1, K67.1
BAGHOUSE, CYCLONAIRE, MODEL 58-DC-25, 5 HP EXHAUST BLOWER, 180 SQ.FT.; 25 BAGS A/N: 472605	C254	D39		PM: (9) [RULE 404, 2-7-1986]	D12.1, D322.1, D381.2, E201.1, K67.1
BAGHOUSE, NO. 07-6, AIR PURIFICATION, 40-HP, 1380 SQ.FT.; 84 BAGS WITH A/N: 472596 CONVEYOR, SCREW, NO. 07-8	C135 D136	D76		PM: (9) [RULE 404, 2-7-1986]	D12.1, D322.1, D381.1, E193.1, E201.1, K67.1
BAGHOUSE, NO. 08-6, FILTER TECHNOLOGY, MODEL 153-8, 40-HP, WITH FABRIC FILTER, 1921 SQ.FT.; 84 BAGS WITH A/N: 472597 CONVEYOR, SCREW, NO. 08-8	C220 D138	D79		PM: (9) [RULE 404, 2-7-1986]	D12.1, D322.1, D381.1, E193.1, E201.1, K67.1

- * (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 GEORGIA-PACIFIC GYPSUM LLC

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: GYPSUM MILLING, CALCINING, AND PACKAGING					
BAGHOUSE, NO. 28-1, AIR PURIFICATION, 1765 SQ.FT. WITH A/N: 472608	C139	D109 D111 D114 D125		PM: (9) [RULE 404, 2-7-1986]	D322.1, D381.1, E201.1, K67.1
CONVEYOR, SCREW, NO. 28-2	D140				
BAGHOUSE, 34-1, FULLER, 500 SQ.FT. A/N: 472610	C141	D117		PM: (9) [RULE 404, 2-7-1986]	D322.1, D381.1, E201.1, K67.1
BAGHOUSE, 25-1, AIR PURIFICATION, 263 SQ.FT. A/N: 472606	C189	D153		PM: (9) [RULE 404, 2-7-1986]	D322.1, D381.2, E201.1, K67.1
Process 4: WALLBOARD PROCESSING					
HOPPER, RECEIVING, FROM BULK BAGS A/N: 472604	D227	D229		PM: (9) [RULE 405, 2-7-1986]	D323.1
FEEDER, SCREW, RIBBON MIXER CHARGING, 2 TOTAL A/N: 472604	D228			PM: (9) [RULE 405, 2-7-1986]	D323.1
MIXER, RIBBON BLENDER, 1.5 TON CAPACITY, 40 HP A/N: 472604	D229	D227 C233		PM: (9) [RULE 405, 2-7-1986]	D323.1
FEEDER, SCREW A/N: 472604	D230			PM: (9) [RULE 405, 2-7-1986]	D323.1
BUCKET ELEVATOR A/N: 472604	D231	C192		PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, TWIN A/N: 472604	D154			PM: (9) [RULE 405, 2-7-1986]	D323.1
FEEDER, SCREW, VOLUMETRIC, 3 TOTAL A/N: 472604	D232			PM: (9) [RULE 405, 2-7-1986]	D323.1
MILL, BALL, 3 TOTAL A/N: 472604	D119	C192		PM: (9) [RULE 405, 2-7-1986]	D323.1, H23.3

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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 GEORGIA-PACIFIC GYPSUM LLC

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 4: WALLBOARD PROCESSING					
CONVEYOR, SCREW, GYPSUM SILO D190 CHARGING A/N: 472604	D259			PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, GYPSUM, 151 CU.FT. CAPACITY A/N: 472604	D190	C192		PM: (9) [RULE 405, 2-7-1986]	D323.1
FEEDER, GYPSUM, WEIGH A/N: 472604	D191	C192		PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, SURGE, BORIC ACID, 50 CU.FT. A/N: 472604	D242			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, BORIC ACID DISCHARGE A/N: 472604	D243			PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, SURGE, FIBERGLASS, 38 CU.FT. A/N: 472604	D244			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, FIBERGLASS DISCHARGE A/N: 472604	D245			PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, SURGE, VERMICULITE, 182 CU.FT. A/N: 472604	D246			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, VERMICULITE DISCHARGE A/N: 472604	D247			PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, SURGE, STARCH, 151 CU.FT. A/N: 472604	D248			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, STARCH DISCHARGE A/N: 472604	D249			PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, SURGE, SUGAR, 3 CU.FT. A/N: 472604	D250			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 GEORGIA-PACIFIC GYPSUM LLC

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 4: WALLBOARD PROCESSING					
CONVEYOR, SCREW, SUGAR DISCHARGE A/N: 472604	D251			PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, SURGE, POTASH, 50 CU.FT. A/N: 472604	D252			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, POTASH DISCHARGE A/N: 472604	D253			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW, ADMIX, TWO SECTIONS A/N: 472604	D172	C192		PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, SCREW A/N: 472604	D173			PM: (9) [RULE 405, 2-7-1986]	D323.1
MIXER, PIN A/N: 472604	D174	C192		PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, BELT, NO. 1, WALLBOARD TRANSFER A/N: 472604	D184			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, BELT, NO. 2, WALLBOARD TRANSFER A/N: 472604	D185			PM: (9) [RULE 405, 2-7-1986]	D323.1
CONVEYOR, BELT, NO. 3, WALLBOARD TRANSFER A/N: 472604	D186			PM: (9) [RULE 405, 2-7-1986]	D323.1
COATER, CURTAIN TYPE A/N: 472598	D222				A63.3, B27.1, H23.2

- * (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

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

FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

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 4: WALLBOARD PROCESSING					
<p>KILN, WITH ALTERNATE HEAT SOURCE FROM A GAS TURBINE, NATURAL GAS, WITH LOW NOX BURNER, 90.6 MMBTU/HR WITH A/N: 472600</p> <p>BURNER, NATURAL GAS, MAXON, MODEL CROSSFIRE GRID LINE, WITH LOW NOX BURNER, 30 MMBTU/HR</p> <p>BURNER, NATURAL GAS, MAXON, MODEL CROSSFIRE GRID LINE, WITH LOW NOX BURNER, 30 MMBTU/HR</p> <p>BURNER, NATURAL GAS, MAXON, MODEL CROSSFIRE, WITH LOW NOX BURNER, 20 MMBTU/HR</p> <p>BURNER, NATURAL GAS, MAXON, MODEL CROSSFIRE, WITH LOW NOX BURNER, 10.6 MMBTU/HR</p>	D193		NOX: MAJOR SOURCE - SUPER COMPLIANT **	CO: 65 LBS/MMSCF NATURAL GAS (5A) [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: 8.5 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	A63.2, A248.1, D29.2, D297.1, 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 GEORGIA-PACIFIC GYPSUM LLC

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 4: WALLBOARD PROCESSING					
BAGHOUSE, CYCLONAIRE, MODEL 58-DC-9, 1.5 HP EXHAUST BLOWER, 65 SQ.FT.; 9 BAGS A/N: 472601	C233	D229		PM: (9) [RULE 404, 2-7-1986]	D322.1, D381.2, E201.1, K67.1
BAGHOUSE, REES, MODEL 650-A, 650 SQ.FT. WITH A/N: 472607 CONVEYOR, SCREW	C192	D119 D172 D174 D190 D191 D231		PM: (9) [RULE 404, 2-7-1986]	D322.1, D381.1, E201.1, K67.1
Process 5: R-219 EXEMPT EQUIPMENT SUBJECT TO SOURCE-SPECIFIC RULES					
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS	E202			ROG: (9) [RULE 1113, 11-8-1996; RULE 1113, 6-3-2011; RULE 1171, 11-7-2003; RULE 1171, 5-1-2009]	K67.2
RULE 219 EXEMPT EQUIPMENT, PRINTING EQUIPMENT, WITH RELATED COATING, LAMINATING AND DRYING EQUIPMENT	E203			ROG: (9) [RULE 1130, 10-8-1999; RULE 1171, 11-7-2003; RULE 1171, 5-1-2009]	
RULE 219 EXEMPT EQUIPMENT, EXEMPT HAND WIPING OPERATIONS	E204			ROG: (9) [RULE 1171, 11-7-2003; RULE 1171, 5-1-2009]	
RULE 219 EXEMPT EQUIPMENT, LAMINATING EQUIPMENT, LOW USE OR EMISSIONS	E205			ROG: (9) [RULE 1168, 10-3-2003; RULE 1168, 1-7-2005; RULE 1171, 11-7-2003; RULE 1171, 5-1-2009]	

- * (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
GEORGIA-PACIFIC GYPSUM LLC**

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 GEORGIA-PACIFIC GYPSUM LLC

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
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D3	1	1	0
D5	1	1	0
C6	1	1	0
D7	1	2	0
D14	1	2	0
D15	2	2	0
D16	2	2	0
D20	2	2	0
D21	2	2	0
D22	2	2	0
D23	2	2	0
D24	2	2	0
D25	2	2	0
D26	2	2	0
D27	3	2	0
D28	3	2	0
D29	2	2	0
C34	10	3	0
D35	10	3	0
C36	3	2	0
D39	5	3	0
D40	3	3	0
D41	4	3	0
D42	3	3	0
D43	3	3	0
D44	3	3	0
D45	4	3	0
D49	5	3	0
D50	8	3	0
D51	4	3	0
D71	3	3	0
D72	4	3	0
D73	4	3	0
D74	4	3	0

**FACILITY PERMIT TO OPERATE
 GEORGIA-PACIFIC GYPSUM LLC**

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D75	5	3	0
D76	6	3	0
D77	6	3	0
D78	6	3	0
D79	7	3	0
D80	7	3	0
D81	5	3	0
D89	6	3	0
D97	7	3	0
D105	6	3	0
D106	5	3	0
D107	7	3	0
D109	7	3	0
D111	7	3	0
D114	7	3	0
D117	8	3	0
D118	9	3	0
D119	11	4	0
D120	8	3	0
D125	8	3	0
D126	8	3	0
D127	8	3	0
D128	8	3	0
C133	10	3	0
D134	10	3	0
C135	10	3	0
D136	10	3	0
D138	10	3	0
C139	11	3	0
D140	11	3	0
C141	11	3	0
D142	9	3	0
D143	9	3	0
D144	9	3	0
D145	9	3	0



**FACILITY PERMIT TO OPERATE
GEORGIA-PACIFIC GYPSUM LLC**

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D146	9	3	0
D147	8	3	0
D148	8	3	0
D149	8	3	0
D150	9	3	0
D151	9	3	0
D152	9	3	0
D153	9	3	0
D154	11	4	0
D156	9	3	0
D157	9	3	0
D172	13	4	0
D173	13	4	0
D174	13	4	0
D184	13	4	0
D185	13	4	0
D186	13	4	0
C189	11	3	0
D190	12	4	0
D191	12	4	0
C192	15	4	0
D193	14	4	0
E202	15	5	0
E203	15	5	0
E204	15	5	0
E205	15	5	0
D210	2	2	0
C216	1	1	0
D218	1	1	0
D219	1	1	0
C220	10	3	0
D222	13	4	0
D227	11	4	0
D228	11	4	0
D229	11	4	0

**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
D230	11	4	0
D231	11	4	0
D232	11	4	0
C233	15	4	0
D234	2	2	0
D235	3	3	0
D236	5	3	0
D237	6	3	0
D238	5	3	0
D239	8	3	0
D240	8	3	0
D241	8	3	0
D242	12	4	0
D243	12	4	0
D244	12	4	0
D245	12	4	0
D246	12	4	0
D247	12	4	0
D248	12	4	0
D249	12	4	0
D250	12	4	0
D251	13	4	0
D252	13	4	0
D253	13	4	0
C254	10	3	0
D258	9	3	0
D259	12	4	0
C265	3	2	0



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

PROCESS CONDITIONS

P20.1 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 process.

[RULE 405, 2-7-1986]

[Processes subject to this condition : 1]

DEVICE CONDITIONS

A. Emission Limits

A63.2 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
CO	Less than or equal to 2160 LBS IN ANY ONE MONTH
PM10	Less than or equal to 468 LBS IN ANY ONE MONTH
ROG	Less than or equal to 432 LBS IN ANY ONE MONTH
SOX	Less than or equal to 51 LBS IN ANY ONE MONTH

For the purposes of this condition, the limit(s) shall be based on the total combined emissions from fuel combustion only.

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

[Devices subject to this condition : D193]

FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

A63.3 The operator shall limit emissions from this equipment as follows:

CONTAMINANT	EMISSIONS LIMIT
ROG	Less than or equal to 646 LBS IN ANY ONE MONTH
ROG	Less than or equal to 36 LBS IN ANY ONE DAY

For the purposes of this condition, the limit(s) shall be based on the total combined emissions from coating operations.

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

[Devices subject to this condition : D222]

A248.1 The 8.5 PPM NOX emission limit is dry, corrected to 15 percent oxygen.

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D193]

B. Material/Fuel Type Limits

B27.1 The operator shall not use materials containing any compounds identified in the SCAQMD Rule 1401, as amended 02/07/2003.

[RULE 1401, 2-7-2003]

[Devices subject to this condition : D222]



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

C. Throughput or Operating Parameter Limits

- C1.1 The operator shall limit the material processed to no more than 86400 ton(s) in any one month.

For the purpose of this condition, material processed shall be defined as gypsum ore processed in the Gypsum Ore Receiving & Storage Process.

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

[Devices subject to this condition : D1, D3, D5, D218, D219]

- C1.2 The operator shall limit the material processed to no more than 36000 ton(s) in any one month.

For the purpose of this condition, material processed shall be defined as gypsum and recycled material.

This limit shall be based on the total combined limit for equipment in the Gypsum Ore Crushing, Conveying and Storage Process.

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

[Devices subject to this condition : D7, D14, D15, D16, D20, D21, D22, D23, D24, D25, D27, D28, D29]

- C1.5 The operator shall limit the production rate to no more than 28800 ton(s) in any one month.

For the purpose of this condition, production rate shall be defined as stucco produced.

This limit shall be based on the total combined limit for equipment D72, D76, and D79.

**FACILITY PERMIT TO OPERATE
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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

[Devices subject to this condition : D72, D76, D79]

C1.7 The operator shall limit the natural gas fuel usage to no more than 31.0 MM cubic feet per month.

The operator shall not increase fuel usage to the limitations of this condition until the test results have been received and validated by the District to be in compliance with proposed concentration/emission limits.

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

[Devices subject to this condition : D72, D76, D79]

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 filters.

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

[Devices subject to this condition : C135, C216, C220, C254]

D29.1 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
CO emissions	Approved District method	District-approved averaging time	Outlet



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

The test shall be conducted to verify compliance with the CO emission factor limit.

The test shall be conducted simultaneously with the "large source" NOx RECLAIM tests required every three-year period.

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

[Devices subject to this condition : D72, D76, D79]

D29.2 The operator shall conduct source test(s) for the pollutant(s) identified below.

Pollutant(s) to be tested	Required Test Method(s)	Averaging Time	Test Location
CO emissions	Approved District method	District-approved averaging time	Outlet

The test shall be conducted simultaneously with all NOx concentration limit compliance tests. The CO emission test will verify compliance with the CO emission limit based on the total fuel usage of the kiln and the total emissions from all exhaust stacks.

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

[Devices subject to this condition : D193]

D297.1 This equipment is subject to the Super Compliance provisions of Rule 2012. In order to maintain designation as a Super Compliant facility, the operator shall conduct semi-annual source tests of this equipment to determine the NOx emissions at the outlet. The test shall be conducted to demonstrate compliance with Rule 2012 (c)(4)(C) and 2012 (c)(4) (D), as amended September 8, 1995. The operator shall also provide source tests reports to the District no more than sixty days after the date of the source tests, and the report for the first source test shall be provided no later than 29-aug-1998.



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[RULE 2012, 5-6-2005]

[Devices subject to this condition : D193]

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 : C6, C34, C36, C133, C135, C139, C141, C189, C192, C216, C220, C233, C254, C265]



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

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 GEORGIA-PACIFIC GYPSUM LLC

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 : D1, D3, D5, D7, D14, D15, D16, D20, D21, D22, D23, D24, D25, D26, D27, D28, D29, D39, D40, D41, D42, D43, D44, D45, D49, D50, D51, D71, D72, D73, D74, D75, D76, D77, D78, D79, D80, D81, D89, D97, D105, D106, D107, D109, D111, D114, D117, D118, D119, D120, D125, D126, D127, D128, D142, D143, D144, D145, D146, D147, D148, D149, D150, D151, D152, D153, D154, D156, D157, D172, D173, D174, D184, D185, D186, D190, D191, D193, D210, D218, D219, D227, D228, D229, D230, D231, D232, D234, D235, D236, D237, D238, D239, D240, D241, D242, D243, D244, D245, D246, D247, D248, D249, D250, D251, D252, D253, D258, D259]

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.



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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 : C6, C34, C133, C135, C139, C141, C192, C216, C220, C265]

D381.2 The operator shall conduct an inspection for visible emissions from all stacks and other emission points of this equipment whenever there is a public complaint of visible emissions, whenever visible emissions are observed, and on an annual basis, at least, unless the equipment did not operate during the entire annual period. The routine annual inspection shall be conducted while the equipment is in operation and during daylight hours. If any visible emissions (not including condensed water vapor) are detected, the operator shall take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit.

The operator shall keep the records in accordance with the recordkeeping requirements in Section K of this permit and the following records:

- 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 : C36, C189, C233, C254]

E. Equipment Operation/Construction Requirements

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

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SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

[Devices subject to this condition : C34]

E193.1 The operator shall operate and maintain this equipment as follows:



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

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, 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.

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 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 inspect and maintain all components of this equipment on an annual basis.

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

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.

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.

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

**FACILITY PERMIT TO OPERATE
 GEORGIA-PACIFIC GYPSUM LLC**

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

deviation and the corrective actions taken.

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

[Devices subject to this condition : C34, C133, C135, C220]

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 : C6, C36, C133, C135, C139, C141, C189, C192, C216, C220, C233, C254, C265]

H. Applicable Rules

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

Contaminant	Rule	Rule/Subpart
PM	40CFR60, SUBPART	UUU

[40CFR 60 Subpart UUU, 4-8-1994]

[Devices subject to this condition : D72, D76, D79]

H23.2 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1128



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[RULE 1128, 3-8-1996]

[Devices subject to this condition : D222]

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

Contaminant	Rule	Rule/Subpart
PM	40CFR60, SUBPART	OOO

[40CFR 60 Subpart OOO, 11-1-1985]

[Devices subject to this condition : D16, D22, D25, D74, D119, D210, D219]

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):

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 : C6, C34, C36, C133, C135, C139, C141, C189, C192, C216, C220, C233, C254, C265]



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

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):

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 : E202]



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

SECTION E: ADMINISTRATIVE CONDITIONS

The operating conditions in this section shall apply to all permitted equipment at this facility unless superseded by condition(s) listed elsewhere in this permit.

1. The permit shall remain effective unless this permit is suspended, revoked, modified, reissued, denied, or it is expired for nonpayment of permit processing or annual operating fees. [201, 203, 209, 301]
 - a. The permit must be renewed annually by paying annual operating fees, and the permit shall expire if annual operating fees are not paid pursuant to requirements of Rule 301(d). [301(d)]
 - b. The Permit to Construct listed in Section H shall expire one year from the Permit to Construct issuance date, unless a Permit to Construct extension has been granted by the Executive Officer or unless the equipment has been constructed and the operator has notified the Executive Officer prior to the operation of the equipment, in which case the Permit to Construct serves as a temporary Permit to Operate. [202, 205]
 - c. The Title V permit shall expire as specified under Section K of the Title V permit. The permit expiration date of the Title V facility permit does not supercede the requirements of Rule 205. [205, 3004]
2. The operator shall maintain all equipment in such a manner that ensures proper operation of the equipment. [204]
3. This permit does not authorize the emissions of air contaminants in excess of those allowed by Division 26 of the Health and Safety Code of the State of California or the Rules and Regulations of the AQMD. This permit cannot be considered as permission to violate existing laws, ordinances, regulations or statutes of other governmental agencies. [204]
4. The operator shall not use equipment identified in this facility permit as being connected to air pollution control equipment unless they are so vented to the identified air pollution control equipment which is in full use and which has been included in this permit. [204]



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

SECTION E: ADMINISTRATIVE CONDITIONS

5. The operator shall not use any equipment having air pollution control device(s) incorporated within the equipment unless the air pollution control device is in full operation. [204]
6. The operator shall maintain records to demonstrate compliance with rules or permit conditions that limit equipment operating parameters, or the type or quantity of material processed. These records shall be made available to AQMD personnel upon request and be maintained for at least: [204]
 - a. Three years for a facility not subject to Title V; or
 - b. Five years for a facility subject to Title V.
7. The operator shall maintain and operate all equipment to ensure compliance with all emission limits as specified in this facility permit. Compliance with emission limits shall be determined according to the following specifications, unless otherwise specified by AQMD rules or permit conditions: [204]
 - a. For internal combustion engines and gas turbines, measured concentrations shall be corrected to 15 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1110.2, 1134, 204]
 - b. For other combustion devices, measured concentrations shall be corrected to 3 percent stack-gas oxygen content on a dry basis and be averaged over a period of 15 consecutive minutes; [1146, 1146.1, 204]
 - c. For a large NO_x source, compliance with a RECLAIM concentration limit shall be measured over a continuous 60 minutes for that source; [2012]
 - d. For non-combustion sources, compliance with emission limits shall be determined and averaged over a period of 60 minutes. [204]

FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

SECTION E: ADMINISTRATIVE CONDITIONS

- e. For the purpose of determining compliance with Rule 407, carbon monoxide (CO) shall be measured on a dry basis and be averaged over 15 consecutive minutes, and sulfur compound which would exist as liquid or gas at standard conditions shall be calculated as sulfur dioxide (SO₂) and be averaged over 15 consecutive minutes; [407]
- f. For the purpose of determining compliance with Rule 409, combustion contaminant emission measurements shall be corrected to 12 percent carbon dioxide (CO₂) at standard conditions and averaged over 15 consecutive minutes. [409]
- g. For the purpose of determining compliance with Rule 475, combustion contaminant emission measurements shall be corrected to 3 percent of oxygen (O₂) at standard conditions and averaged over 15 consecutive minutes or any other averaging time specified by the Executive Officer. [475]
8. All equipment operating under the RECLAIM program shall comply concurrently with all provisions of AQMD Rules and Regulation, except those listed in Table 1 of Rule 2001 for NO_x RECLAIM sources and Table 2 of Rule 2001 for SO_x RECLAIM sources. Those provisions listed in Tables 1 or 2 shall not apply to NO_x or SO_x emissions after the date the facility has demonstrated compliance with all monitoring and reporting requirements of Rules 2011 or 2012, as applicable. Provisions of the listed AQMD rules in Tables 1 or 2 which have initial implementation dates in 1994 shall not apply to a RECLAIM NO_x or SO_x source, respectively. [2001]
9. The operator shall, when a source test is required by AQMD, provide a source test protocol to AQMD no later than 60 days before the proposed test date. The test shall not commence until the protocol is approved by AQMD. The test protocol shall contain the following information: [204, 304]
 - a. Brief description of the equipment tested.



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

SECTION E: ADMINISTRATIVE CONDITIONS

- b. Brief process description, including maximum and normal operating temperatures, pressures, through-put, etc.
 - c. Operating conditions under which the test will be performed.
 - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts/stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
 - e. Brief description of sampling and analytical methods used to measure each pollutant, temperature, flow rates, and moisture.
 - f. Description of calibration and quality assurance procedures.
 - g. Determination that the testing laboratory qualifies as an "independent testing laboratory" under Rule 304 (no conflict of interest).
10. The operator shall submit a report no later than 60 days after conducting a source test, unless otherwise required by AQMD Rules or equipment-specific conditions. The report shall contain the following information: [204]
- a. The results of the source test.
 - b. Brief description of the equipment tested.
 - c. Operating conditions under which the test will be performed.
 - d. Method of measuring operating parameters, such as fuel rate and process weight. Process schematic diagram showing the ports and sampling locations, including the dimensions of the ducts/stacks at the sampling locations, and distances of flow disturbances, (e.g. elbows, tees, fans, dampers) from the sampling locations (upstream and downstream).
 - e. Field and laboratory data forms, strip charts and analyses.



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SECTION E: ADMINISTRATIVE CONDITIONS

- f. Calculations for volumetric flow rates, emission rates, control efficiency, and overall control efficiency.
11. The operator shall, when a source test is required, provide and maintain facilities for sampling and testing. These facilities shall comply with the requirements of AQMD Source Test Method 1.1 and 1.2. [217]
12. Whenever required to submit a written report, notification or other submittal to the Executive Officer, AQMD, or the District, the operator shall mail or deliver the material to: Deputy Executive Officer, Engineering and Compliance, AQMD, 21865 E. Copley Drive, Diamond Bar, CA 91765-4182. [204]



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

The Facility shall comply with all applicable monitoring and source testing requirements in Regulation XX. These requirements may include but are not limited to the following:

I. NOx Monitoring Conditions

A. The Operator of a NOx Major Source, as defined in Rule 2012, shall, as applicable:

Not Applicable

B. The Operator of a NOx large Source, as defined in Rule 2012, shall, as applicable:

1. Install, maintain, and operate a totalizing fuel meter and any device specified by the Executive Officer as necessary to determine monthly fuel usage or other applicable variables specified in Rule 2012, Appendix A, Table 3-A. The sharing of totalizing fuel meter may be allowed by the Executive Officer if the fuel meter serves large sources which have the same emission factor, concentration limit, or emission rate. The sharing of totalizing fuel meters shall not be allowed for large sources which are required to comply with an annual heat input limit. [2012]
2. Comply at all times with the specified NOx concentration limit in PPM measured over any continuous 60 minutes for that source or establish an equipment-specific emission rate that is reliable, accurate, representative of that sources emissions, and in accordance with the requirements specified in Rule 2012, Appendix A, Chapter 5. [2012]

C. The Operator of a NOx Process Unit, as defined in Rule 2012, shall, as applicable:

Not Applicable

II. NOx Source Testing and Tune-up conditions

1. The operator shall conduct all required NOx source testing in compliance with an AQMD-approved source test protocol. [2012]



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

2. The operator shall, as applicable, conduct source tests for every large NO_x source no later than June 30, 1997 and every 3 years thereafter. The source test shall include the determination of NO_x concentration and a relative accuracy audit of the exhaust stack flow determination (e.g. in-stack flow monitor or fuel flow monitor based F-factor calculation). Such source test results shall be submitted per the schedule described by APEP. In lieu of submitting the first source test report, the facility permit holder may submit the results of a source test not more than 3 years old which meets the requirements when conducted. [2012]

3. All NO_x large sources and NO_x process units shall be tuned-up in accordance with the schedule specified in Rule 2012, Appendix A, Chapter 5, Table 5-B. [2012]



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

SECTION G: RECORDKEEPING AND REPORTING REQUIREMENTS FOR RECLAIM SOURCES

The Facility shall comply with all applicable reporting and recordkeeping requirements in Regulation XX. These requirements may include but are not limited to the following:

I. Recordkeeping Requirements for all RECLAIM Sources

1. The operator shall maintain all monitoring data required to be measured or reported pursuant to Rule 2011 and Rule 2012, whichever is applicable. All records shall be made available to AQMD staff upon request and be maintained for at least:
 - a. Three years after each APEP report is submitted to AQMD for a facility not subject to Title V, unless a different time period is required in Rule 2011 or Rule 2012 [2011 & 2012]; or
 - b. Five years after each APEP report is submitted to AQMD for a facility subject to Title V. [3004(a)(4)(E)]
 - c. Notwithstanding the above, all data gathered or computed for intervals of less than 15 minutes shall only be maintained a minimum of 48 hours. [2011 & 2012]
2. The operator shall store on site and make available to the Executive Officer upon request: records used to determine emissions, maintenance records, sources test reports, relative accuracy test audit reports, relative accuracy audit reports and fuel meter calibration records. [2011 & 2012]

II. Reporting Requirements for all RECLAIM Sources

1. The operator shall submit a quarterly certification of emissions including the facility's total NO_x or SO_x emissions, whichever is applicable, for the quarter within 30 days after the end of the first three quarters and 60 days after the end of the fourth quarter of a compliance year. [2011 & 2012]

NO_x Reporting Requirements

A. The Operator of a NO_x Major Source, as defined in Rule 2012, shall, as applicable:

Not Applicable

**FACILITY PERMIT TO OPERATE
GEORGIA-PACIFIC GYPSUM LLC**

**SECTION G: RECORDKEEPING AND REPORTING REQUIREMENTS FOR
RECLAIM SOURCES**

B. The Operator of a NOx Large Source, as defined in Rule 2012, shall:

1. Install, maintain and operate a modem or any reporting device approved by the Executive Officer to report, to the AQMD, the total monthly NOx mass emissions from each large NOx source. The Operator shall comply with this requirement within 12 months of the date of entry to the RECLAIM Program. Such data shall be reported within 15 days after the end of each calendar month. [2012]

C. The Operator of a NOx Process Unit, as defined in Rule 2012, shall:

Not Applicable



**FACILITY PERMIT TO OPERATE
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SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

NONE



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

SECTION I: PLANS AND SCHEDULES

This section lists all plans approved by AQMD for the purposes of meeting the requirements of applicable AQMD rules.

NONE

NOTE: This section does not list compliance schedules pursuant to the requirements of Regulation XXX - Title V Permits; Rule 3004(a)(10)(C). For equipment subject to a variance, order for abatement, or alternative operating condition granted pursuant to Rule 518.2, equipment specific conditions are added to the equipment in Section D or H of the permit.



SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT
21865 Copley Drive, Diamond Bar, CA 91765

Section J	Page:	1
Facility ID:		152857
Revision #:		1
Date:		January 15, 2013

**FACILITY PERMIT TO OPERATE
GEORGIA-PACIFIC GYPSUM LLC**

SECTION J: AIR TOXICS

NOT APPLICABLE



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

SECTION K: TITLE V Administration

GENERAL PROVISIONS

1. This permit may be revised, revoked, reopened and reissued, or terminated for cause, or for failure to comply with regulatory requirements, permit terms, or conditions. [3004(a)(7)(C)]
2. This permit does not convey any property rights of any sort or any exclusive privilege. [3004(a)(7)(E)]

Permit Renewal and Expiration

3. (A) Except for solid waste incineration facilities subject to standards under section 129(e) of the Clean Air Act, this permit shall expire five years from the date that this Title V permit is issued. The operator's right to operate under this permit terminates at midnight on this date, unless the facility is protected by an application shield in accordance with Rule 3002(b), due to the filing of a timely and complete application for a Title V permit renewal, consistent with Rule 3003. [3004(a)(2), 3004(f)]

(B) A Title V permit for a solid waste incineration facility combusting municipal waste subject to standards under Section 129(e) of the Clean Air Act shall expire 12 years from the date of issuance unless such permit has been renewed pursuant to this regulation. These permits shall be reviewed by the Executive Officer at least every five years from the date of issuance. [3004(f)(2)]
4. To renew this permit, the operator shall submit to the Executive Officer an application for renewal at least 180 days, but not more than 545 days, prior to the expiration date of this permit. [3003(a)(6)]

Duty to Provide Information

5. The applicant for, or holder of, a Title V permit shall furnish, pursuant to Rule 3002(d) and (e), timely information and records to the Executive Officer or designee within a reasonable time as specified in writing by the Executive Officer or designee. [3004(a)(7)(F)]

Payment of Fees

6. The operator shall pay all required fees specified in Regulation III - Fees. [3004(a)(7)(G)]



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

SECTION K: TITLE V Administration

Reopening for Cause

7. The Executive Officer will reopen and revise this permit if any of the following circumstances occur:
- (A) Additional regulatory requirements become applicable with a remaining permit term of three or more years. Reopening is not required if the effective date of the requirement is later than the expiration date of this permit, unless the permit or any of its terms and conditions has been extended pursuant to paragraph (f)(4) of Rule 3004.
 - (B) The Executive Officer or EPA Administrator determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.
 - (C) The Executive Officer or EPA Administrator determines that the permit must be revised or revoked to assure compliance with the applicable requirements. [3005(g)(1)]

COMPLIANCE PROVISIONS

8. The operator shall comply with all regulatory requirements, and all permit terms and conditions, except:
- (A) As provided for by the emergency provisions of condition no. 17 or condition no. 18, or
 - (B) As provided by an alternative operating condition granted pursuant to a federally approved (SIP-approved) Rule 518.2.

Any non-compliance with any federally enforceable permit condition constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or revision; or denial of a permit renewal application. Non-compliance may also be grounds for civil or criminal penalties under the California State Health and Safety Code. [3004(a)(7)(A)]



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

SECTION K: TITLE V Administration

9. The operator shall allow the Executive Officer or authorized representative, upon presentation of appropriate credentials to:
 - (A) Enter the operator's premises where emission-related activities are conducted, or records are kept under the conditions of this permit;
 - (B) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
 - (C) Inspect at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
 - (D) Sample or monitor at reasonable times, substances or parameters for the purpose of assuring compliance with the facility permit or regulatory requirements. [3004(a)(10)(B)]

10. All terms and conditions in this permit, including any provisions designed to limit a facility's potential to emit, are enforceable by the EPA Administrator and citizens under the federal Clean Air Act, unless the term or condition is designated as not federally enforceable. Each day during any portion of which a violation occurs is a separate offense. [3004(g)]

11. A challenge to any permit condition or requirement raised by EPA, the operator, or any other person, shall not invalidate or otherwise affect the remaining portions of this permit. [3007(b)]

12. The filing of any application for a permit revision, revocation, or termination, or a notification of planned changes or anticipated non-compliance does not stay any permit condition. [3004(a)(7)(D)]

13. It shall not be a defense for a person in an enforcement action, including those listed in Rule 3002(c)(2), that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit, except as provided for in "Emergency Provisions" of this section. [3004(a)(7)(H)]



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

SECTION K: TITLE V Administration

14. The operator shall not build, erect, install, or use any equipment, the use of which, without resulting in a reduction in the total release of air contaminants to atmosphere, reduces or conceals an emission which would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the California Health and Safety Code or of AQMD rules. This rule shall not apply to cases in which the only violation involved is of Section 41700 of the California Health and Safety Code, or Rule 402 of AQMD Rules. [408]
15. Nothing in this permit or in any permit shield can alter or affect:
- (A) Under Section 303 of the federal Clean Air Act, the provisions for emergency orders;
 - (B) The liability of the operator for any violation of applicable requirements prior to or at the time of permit issuance;
 - (C) The applicable requirements of the Acid Rain Program, Regulation XXXI;
 - (D) The ability of EPA to obtain information from the operator pursuant to Section 114 of the federal Clean Air Act;
 - (E) The applicability of state or local requirements that are not "applicable requirements", as defined in Rule 3000, at the time of permit issuance but which do apply to the facility, such as toxics requirements unique to the State; and
 - (F) The applicability of regulatory requirements with compliance dates after the permit issuance date. [3004(c)(3)]
16. For any portable equipment that requires an AQMD or state permit or registration, excluding a) portable engines, b) military tactical support equipment and c) AQMD-permitted portable equipment that are not a major source, are not located at the facility for more than 12 consecutive months after commencing operation, and whose operation does not conflict with the terms or conditions of this Title V permit: 1) the facility operator shall keep a copy of the AQMD or state permit or registration; 2) the equipment operator shall comply with the conditions on the permit or registration and all other regulatory requirements; and 3) the facility operator shall treat the permit or registration as a part of its Title V permit, subject to recordkeeping, reporting and certification requirements. [3004(a)(1)]



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

SECTION K: TITLE V Administration EMERGENCY PROVISIONS

17. An emergency¹ constitutes an affirmative defense to an action brought for noncompliance with a technology-based emission limit only if:
- (A) Properly signed, contemporaneous operating records or other credible evidence demonstrate that:
 - (1) An emergency occurred and the operator can identify the cause(s) of the emergency;
 - (2) The facility was operated properly (i.e. operated and maintained in accordance with the manufacturer's specifications, and in compliance with all regulatory requirements or a compliance plan), before the emergency occurred;
 - (3) The operator took all reasonable steps to minimize levels of emissions that exceeded emissions standard, or other requirements in the permit; and,
 - (4) The operator submitted a written notice of the emergency to the AQMD within two working days of the time when the emissions limitations were exceeded due to the emergency. The notice shall contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken; and
 - (B) The operator complies with the breakdown provisions of Rule 430 – Breakdown Provisions, or subdivision (i) of Rule 2004 – Requirements, whichever is applicable. [3002(g), 430, 2004(i)]
18. The operator is excused from complying with any regulatory requirement that is suspended by the Executive Officer during a state of emergency or state of war emergency, in accordance with Rule 118 - Emergencies. [118]

¹ "Emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the operator, including acts of God, which: (A) requires immediate corrective action to restore normal operation; and (B) causes the facility to exceed a technology-based emission limitation under the permit, due to unavoidable increases in emissions attributable to the emergency; and (C) is not caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

SECTION K: TITLE V Administration RECORDKEEPING PROVISIONS

19. In addition to any other recordkeeping requirements specified elsewhere in this permit, the operator shall keep records of required monitoring information, where applicable, that include:
- (A) The date, place as defined in the Title V permit, and time of sampling or measurements;
 - (B) The date(s) analyses were performed;
 - (C) The company or entity that performed the analyses;
 - (D) The analytical techniques or methods used;
 - (E) The results of such analyses; and
 - (F) The operating conditions as existing at the time of sampling or measurement. [3004(a)(4)(B)]
20. The operator shall maintain records pursuant to Rule 109 and any applicable material safety data sheet (MSDS) for any equipment claimed to be exempt from a written permit by Rule 219 based on the information in those records. [219(t)]
21. The operator shall keep all records of monitoring data required by this permit or by regulatory requirements for a period of at least five years from the date of the monitoring sample, measurement, report, or application. [3004(a)(4)(E)]

REPORTING PROVISIONS

22. The operator shall comply with the following requirements for prompt reporting of deviations:
- (A) Breakdowns shall be reported as required by Rule 430 – Breakdown Provisions or subdivision (i) of Rule 2004 - Requirements, whichever is applicable.



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

SECTION K: TITLE V Administration

- (B) Other deviations from permit or applicable rule emission limitations, equipment operating conditions, or work practice standards, determined by observation or by any monitoring or testing required by the permit or applicable rules that result in emissions greater than those allowed by the permit or applicable rules shall be reported within 72 hours (unless a shorter reporting period is specified in an applicable State or Federal Regulation) of discovery of the deviation by contacting AQMD enforcement personnel assigned to this facility or otherwise calling (800) CUT-SMOG.
 - (C) A written report of such deviations reported pursuant to (B), and any corrective actions or preventative measures taken, shall be submitted to AQMD, in an AQMD approved format, within 14 days of discovery of the deviation.
 - (D) All other deviations shall be reported with the monitoring report required by condition no. 23. [3004(a)(5)]
23. Unless more frequent reporting of monitoring results are specified in other permit conditions or in regulatory requirements, the operator shall submit reports of any required monitoring to the AQMD at least twice per year. The report shall include a) a statement whether all monitoring required by the permit was conducted; and b) identification of all instances of deviations from permit or regulatory requirements. A report for the first six calendar months of the year is due by August 31 and a report for the last six calendar months of the year is due by February 28. [3004(a)(4)(F)]
24. The operator shall submit to the Executive Officer and to the Environmental Protection Agency (EPA), an annual compliance certification. For RECLAIM facilities, the certification is due when the Annual Permit Emissions Program (APEP) report is due and shall cover the same reporting period. For other facilities, the certification is due on March 1 for the previous calendar year. The certification need not include the period preceding the date the initial Title V permit was issued. Each compliance certification shall include:
- (A) Identification of each permit term or condition that is the basis of the certification;



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

SECTION K: TITLE V Administration

- (B) The compliance status during the reporting period;
- (C) Whether compliance was continuous or intermittent;
- (D) The method(s) used to determine compliance over the reporting period and currently, and
- (E) Any other facts specifically required by the Executive Officer to determine compliance.

The EPA copy of the certification shall be sent to: Director of the Air Division Attn:
Air-3 USEPA, Region IX 75 Hawthorne St. San Francisco, CA 94105 [3004(a)(10)(E)]

25. All records, reports, and documents required to be submitted by a Title V operator to AQMD or EPA shall contain a certification of accuracy consistent with Rule 3003(c)(7) by a responsible official (as defined in Rule 3000). [3004(a)(12)]

PERIODIC MONITORING

26. All periodic monitoring required by this permit pursuant to Rule 3004(a)(4)(c) is based on the requirements and justifications in the AQMD document "Periodic Monitoring Guidelines for Title V Facilities" or in case-by-case determinations documented in the TitleV application file. [3004(a)(4)]



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

SECTION K: TITLE V Administration

FACILITY RULES

This facility is subject to the following rules and regulations

With the exception of Rule 402, 473, 477, 1118 and Rules 1401 through 1420, the following rules that are designated as non-federally enforceable are pending EPA approval as part of the state implementation plan. Upon the effective date of that approval, the approved rule(s) will become federally enforceable, and any earlier versions of those rules will no longer be federally enforceable.

RULE SOURCE	Adopted/Amended Date	FEDERAL Enforceability
RULE 1113	11-8-1996	Federally enforceable
RULE 1113	6-3-2011	Non federally enforceable
RULE 1128	3-8-1996	Federally enforceable
RULE 1130	10-8-1999	Federally enforceable
RULE 1168	1-7-2005	Non federally enforceable
RULE 1168	10-3-2003	Federally enforceable
RULE 1171	11-7-2003	Federally enforceable
RULE 1171	5-1-2009	Non federally enforceable
RULE 118	12-7-1995	Non federally enforceable
RULE 1303(a)(1)-BACT	12-6-2002	Non federally enforceable
RULE 1303(a)(1)-BACT	5-10-1996	Federally enforceable
RULE 1303(b)(2)-Offset	12-6-2002	Non federally enforceable
RULE 1303(b)(2)-Offset	5-10-1996	Federally enforceable
RULE 1401	2-7-2003	Non federally enforceable
RULE 2012	5-6-2005	Federally enforceable
RULE 204	10-8-1993	Federally enforceable
RULE 217	1-5-1990	Federally enforceable
RULE 219	9-4-1981	Federally enforceable
RULE 3002	11-14-1997	Federally enforceable
RULE 3003	11-14-1997	Federally enforceable
RULE 3004(a)(4)-Periodic Monitoring	12-12-1997	Federally enforceable



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

SECTION K: TITLE V Administration

RULE SOURCE	Adopted/Amended Date	FEDERAL Enforceability
RULE 3005	11-14-1997	Federally enforceable
RULE 3007	10-8-1993	Federally enforceable
RULE 304	1-14-1982	Non federally enforceable
RULE 402	5-7-1976	Non federally enforceable
RULE 404	2-7-1986	Federally enforceable
RULE 405	2-7-1986	Federally enforceable
RULE 407	4-2-1982	Federally enforceable
RULE 408	5-7-1976	Federally enforceable
RULE 409	8-7-1981	Federally enforceable
RULE 430	7-12-1996	Non federally enforceable
RULE 701	6-13-1997	Federally enforceable
40CFR 60 Subpart OOO	11-1-1985	Federally enforceable
40CFR 60 Subpart UUU	4-8-1994	Federally enforceable
40CFR Part 64	10-22-1997	Federally enforceable



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

APPENDIX A: NOX AND SOX EMITTING EQUIPMENT EXEMPT FROM WRITTEN PERMIT PURSUANT TO RULE 219

1. PAPER HEATERS, NATURAL GAS
2. WATER HEATERS, NATURAL GAS
3. SPACE HEATERS, NATURAL GAS



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 11-08-1996]

- (1) Except as provided in paragraphs (c)(2), (c)(3), and (c)(4) of Rule 1113, the operator shall not supply, sell, offer for sale, apply, or solicit the application of, any architectural coating which, at the time of sale or manufacture, contains more than 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, and less any colorant added to tint bases, or manufacture, blend, or repackage such a coating for use within the District.
- (2) Except as provided in paragraphs (c)(3) and (c)(4) of Rule 1113, the operator shall not supply, sell, offer for sale, apply, solicit the application of, manufacture, blend, or repackage, for use within the District, any architectural coating listed in the Table of Standards which contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified.

TABLE OF STANDARDS

VOC LIMITS

Grams of VOC Per Liter of Coating, Less Water And Less Exempt Compounds

COATING	Limit*	Effective Date of Adoption	Effective 1/1/1998	Effective 1/1/1999	Effective 7/1/2001	Effective 1/1/2005	Effective 7/1/2008
Bond Breakers	350						
Clear Wood Finishes							
Varnish	350						
Sanding Sealers	350						
Lacquer	680		550			275	
Concrete-Curing Compounds	350						
Dry-Fog Coatings	400						
Fire-proofing Exterior Coatings	350	450		350			
Fire-Retardant Coatings							
Clear	650						
Pigmented	350						
Flats	250				100		50
Graphic Arts (Sign) Coatings	500						



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 11-08-1996]

Industrial Maintenance						
Primers and Topcoats						
Alkyds	420					
Catalyzed Epoxy	420					
Bituminous Coatings	420					
Materials						
Inorganic Polymers	420					
Vinyl Chloride Polymers	420					
Chlorinated Rubber	420					
Acrylic Polymers	420					
Urethane Polymers	420					
Silicones	420					
Unique Vehicles	420					
Japans/Faux Finishing	350	700		350		
Coatings						
Magnesite Cement Coatings	600			450		
Mastic Coatings	300					
Metallic Pigmented Coatings	500					
Multi-Color Coatings	420		250			
Pigmented Lacquer	680		550		275	
Pre-Treatment Wash Primers	780					
Primers, Sealers, and	350					
Undercoaters						
Quick-Dry Enamels	400					
Roof Coatings	300					
Shellac						
Clear	730					
Pigmented	550					
Stains	350					
Swimming Pool Coatings						
Repair	650					
Other	340					
Traffic Coatings	250		150			
Waterproofing Sealers	400					
Wood Preservatives						
Below-Ground	350					
Other	350					

* The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards

TABLE OF STANDARDS (cont.)

VOC LIMITS

Grams of VOC Per Liter of Material

COATING	Limit
Low-Solids Coating	120



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 06-03-2011]

- (1) Except as provided in paragraphs (c)(3), (c)(4), and designated coatings averaged under (c)(6) of Rule 1113, no person shall supply, sell, offer for sale, market, manufacture, blend, repackage, apply, store at a worksite, or solicit the application of any architectural coating within the District:
 - (A) That is listed in the Table of Standards 1 and contains VOC (excluding any colorant added to tint bases) in excess of the corresponding VOC limit specified in the table, after the effective date specified; or
 - (B) That is not listed in the Table of Standards 1, and contains VOC (excluding any colorant added to tint bases) in excess of 250 grams of VOC per liter of coating (2.08 pounds per gallon), less water, less exempt compounds, until January 1, 2014, at which time the limit drops to 50 grams of VOC per liter of coating, less water, less exempt compounds (0.42 pounds per gallon).
- (2) No person within the District shall add colorant at the point of sale that is listed in the Table of Standards 2 and contains VOC in excess of the corresponding VOC limit specified in the Table of Standards 2, after the effective date specified.



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 06-03-2011]

TABLE OF STANDARDS 1 VOC LIMITS

Grams of VOC Per Liter of Coating,
Less Water and Less Exempt Compounds

COATING CATEGORY	Ceiling Limit ¹	Current Limit ²	Effective Date		
			7/1/08	1/1/12	1/1/14
Bond Breakers		350			
Clear Wood Finishes		275			
Varnish	350	275			
Sanding Sealers	350	275			
Lacquer		275			
Concrete-Curing Compounds		100			
Concrete-Curing Compounds For Roadways and Bridges ³		350			
Concrete Surface Retarder		250			50
Driveway Sealer		100		50	
Dry-Fog Coatings		150			50
Faux Finishing Coatings					
Clear Topcoat		350		200	
Decorative Coatings		350			100
Glazes		350			
Japan		350			
Trowel Applied Coatings		350		150	50
Fire-Proofing Coatings		350			150
Flats	250	50	50		
Floor Coatings	100	50			
Form Release Compound		250			100
Graphic Arts (Sign) Coatings		500			150
Industrial Maintenance (IM) Coatings	420	100			
High Temperature IM Coatings		420			
Non-Sacrificial Anti-Graffiti Coatings		100			
Zinc-Rich IM Primers	340	100			
Magnesite Cement Coatings		450			
Mastic Coatings		300			100
Metallic Pigmented Coatings	500	500			150
Multi-Color Coatings		250			
Nonflat Coatings	150	50			
Pre-Treatment Wash Primers		420			
Primers, Sealers, and Undercoaters	200	100			
Reactive Penetrating Sealers		350			
Recycled Coatings		250			
Roof Coatings	250	50			
Roof Coatings, Aluminum		100			



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 06-03-2011]

Roof Primers, Bituminous	350	350		
Rust Preventative Coatings	400	100		
Stone Consolidant		450		
Sacrificial Anti-Graffiti Coatings		100	50	
Shellac				
Clear		730		
Pigmented		550		
Specialty Primers	350	100		
Stains		100		



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 06-03-2011]

COATING CATEGORY	Ceiling Limit ¹	Current Limit ²	Effective Date		
			7/1/08	1/1/12	1/1/14
Stains, Interior	250	250			
Swimming Pool Coatings					
Repair		340			
Other		340			
Traffic Coatings		100			
Waterproofing Sealers	250	100			
Waterproofing Concrete/Masonry Sealers	400	100			
Wood Preservatives		350			

1. The specified ceiling limits are applicable to products sold under the Averaging Compliance Option.
2. The specified limits remain in effect unless revised limits are listed in subsequent columns in the Table of Standards.
3. Does not include compounds used for curbs and gutters, sidewalks, islands, driveways and other miscellaneous concrete areas.

TABLE OF STANDARDS 1 (cont.) VOC LIMITS

Grams of VOC Per Liter of Material

COATING	Limit
Low-Solids Coating	120

TABLE OF STANDARDS 2 VOC LIMITS FOR COLORANTS

Grams of VOC Per Liter of Colorant Less Water and Less Exempt Compounds

COLORANT	Limit ⁴
Architectural Coatings, excluding IM Coatings	50
Solvent-Based IM	600
Waterborne IM	50

4. Effective January 1, 2014.



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 1128 03-08-1996]

Except as otherwise provided in Rule 1128

- (1) The operator shall not use or apply any coating in any paper, fabric or film coating application process, with or without heating ovens, unless:
 - (A) The coating contains less than 265 grams of VOC per liter of coating less water, and less exempt compounds, as applied.
- (2) The operator shall not use or apply any plastisol to any paper, fabric, or film substrate unless the coating contains less than 20 grams of VOC per liter of coating, less water, and less exempt compounds, as applied.
- (3) The operator shall not use wash primer on any paper, fabric, and/or film used in any paper, fabric, and/or film coating application process, with or without heating ovens, unless:
 - (A) The wash primer contains less than 265 grams of VOC per liter of material used.



**FACILITY PERMIT TO OPERATE
GEORGIA-PACIFIC GYPSUM LLC**

**APPENDIX B: RULE EMISSION LIMITS
[RULE 1130 10-08-1999]**

(Amended October 8, 1999)

RULE 1130. GRAPHIC ARTS

Except as otherwise provided in Rule 1130

(1) **VOC Content of Graphic Arts Materials**

The operator shall not apply any graphic arts material, including any VOC-containing materials added to the original graphic arts materials, which contains a total VOC in excess of the limits specified below:

<u>GRAPHIC ARTS MATERIAL</u>	VOC LIMIT Grams per Liter of Coating (or Ink or Adhesive), Less Water <u>and Less Exempt Compounds</u>	
	<u>(October 8, 1999)</u>	<u>Effective January 1, 2000</u>
Lithographic Ink	300	300
Letterpress Ink	300	300
Gravure Ink	300	300
Flexographic Ink Non-Porous Substrate	300	300
Flexographic Ink Porous Substrate	300	225
Flexographic Fluorescent Ink	300	300
Coating	300	300
Adhesive	300	150



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 1130 10-08-1999]

(2) VOC Content of Fountain Solution

Through December 31, 1999, the operator shall not apply in any graphic arts operation any fountain solution, including any VOC-containing materials added to the original fountain solution, which contains a total VOC in excess of 100 grams per liter of material. Effective January 1, 2000, the VOC content of fountain solution, including any VOC containing material added to the original fountain solution as applied, shall be:

- (A) no greater than 80 grams per liter of material, or
- (B) no greater than 100 grams per liter of material, if a refrigerated chiller is used.



**FACILITY PERMIT TO OPERATE
GEORGIA-PACIFIC GYPSUM LLC**

**APPENDIX B: RULE EMISSION LIMITS
[RULE 1168 01-07-2005]**

- (1) Unless otherwise specified in paragraph (c)(2), a person shall not apply any adhesives, adhesive bonding primers, adhesive primers, or any other primer which have a VOC content in excess of 250 g/L less water and less exempt compounds.
- (2) A person shall not apply adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers, or any other primer which have a VOC content in excess of the limits specified below:

VOC Limit*, Less Water and Less Exempt Compounds in Grams per Liter

Architectural Applications	Current VOC Limit*
Indoor Carpet Adhesives	50
Carpet Pad Adhesives	50
Outdoor Carpet Adhesives	150
Wood Flooring Adhesive	100
Rubber Floor Adhesives	60
Subfloor Adhesives	50
Ceramic Tile Adhesives	65
VCT and Asphalt Tile Adhesives	50
Dry Wall and Panel Adhesives	50
Cove Base Adhesives	50
Multipurpose Construction Adhesives	70
Structural Glazing Adhesives	100
Single Ply Roof Membrane Adhesives	250



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 1168 01-07-2005]

Specialty Applications	VOC Limits and Effective Dates**			
	Current VOC Limit*	1-1-05	7-1-05	1-1-07
PVC Welding	510			
CPVC Welding	490			
ABS Welding	400		325	
Plastic Cement Welding	350	250		
Adhesive Primer for Plastic	650		550	
Computer Diskette Manufacturing	350			
Contact Adhesive	80			
Special Purpose Contact Adhesive	250			
Tire Retread	100			
Adhesive Primer for Traffic Marking Tape	150			
Structural Wood Member Adhesive	140			
Sheet Applied Rubber Lining Operations	850			
Top and Trim Adhesive	540			250

** The specified limits remain in effect unless revised limits are listed in subsequent columns.



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 1168 01-07-2005]

For adhesives, adhesive bonding primers, or any other primer not regulated by the above two tables and applied to the following substrates, the following limits shall apply:

Substrate Specific Applications	Current VOC Limit*
Metal to Metal	30
Plastic Foams	50
Porous Material (except wood)	50
Wood	30
Fiberglass	80

If an adhesive is used to bond dissimilar substrates together the adhesive with the highest VOC content shall be allowed.

Sealants	Current VOC Limit*
Architectural	250
Marine Deck	760
Nonmembrane Roof	300
Roadway	250
Single-Ply Roof Membrane	450
Other	420



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 1168 01-07-2005]

Sealant Primers	Current VOC Limit*
Architectural	
Non Porous	250
Porous	775
Modified Bituminous	500
Marine Deck	760
Other	750

* For low-solid adhesives or sealants the VOC limit is expressed in grams per liter of material as determined in paragraph (b)(32); for all other adhesives and sealants, VOC limits are expressed as grams of VOC per liter of adhesive or sealant less water and less exempt compounds as determined in paragraph (b)(31).



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 1168 10-03-2003]

- (1) Unless otherwise specified in paragraph (c)(2), a person shall not apply any adhesives, adhesive bonding primers, adhesive primers, or any other primer which have a VOC content in excess of 250 g/L less water and less exempt compounds.
- (2) A person shall not apply adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers, or any other primer which have a VOC content in excess of the limits specified below:

VOC Limit*, Less Water and Less Exempt Compounds in Grams per Liter

Architectural Applications	Current VOC Limit
Indoor Carpet Adhesives	50
Carpet Pad Adhesives	50
Outdoor Carpet Adhesives	150
Wood Flooring Adhesive	100
Rubber Floor Adhesives	60
Subfloor Adhesives	50
Ceramic Tile Adhesives	65
VCT and Asphalt Tile Adhesives	50
Dry Wall and Panel Adhesives	50
Cove Base Adhesives	50
Multipurpose Construction Adhesives	70
Structural Glazing Adhesives	100
Single Ply Roof Membrane Adhesives	250

* For low-solid adhesives or sealants the VOC limit is expressed in grams per liter of material as determined in paragraph (b)(32); for all other adhesives and sealants, VOC limits are expressed as grams of VOC per liter of adhesive or sealant less water and less exempt compounds as determined in paragraph (b)(31).



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 1168 10-03-2003]

.Specialty Applications	VOC Limits and Effective Dates**			
	Current VOC Limit	6-7-02	1-1-03	1-1-05
PVC Welding	510			285
CPVC Welding	490			270
ABS Welding	400			
Plastic Cement Welding	350			250
Adhesive Primer for Plastic	650			250
Computer Diskette Manufacturing	350			
Contact Adhesive	250		80	
Special Purpose Contact Adhesive	250			
Tire Retread	100			
Adhesive Primer for Traffic Marking Tape	150			
Structural Wood Member Adhesive	140			
Sheet Applied Rubber Lining Operations	850			
Top and Trim Adhesive	250	540		250

** The specified limits remain in effect unless revised limits are listed in subsequent columns.



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 1168 10-03-2003]

Substrate Specific Applications	Current VOC Limit
Metal to Metal	30
Plastic Foams	50
Porous Material (except wood)	50
Wood	30
Fiberglass	80

If an adhesive is used to bond dissimilar substrates together the adhesive with the highest VOC content shall be allowed.

Sealants	Current VOC Limit
Architectural	250
Marine Deck	760
Nonmembrane Roof	300
Roadway	250
Single-Ply Roof Membrane	450
Other	420

Sealant Primers	Current VOC Limit
Architectural	
Non Porous	250
Porous	775
Modified Bituminous	500
Marine Deck	760
Other	750



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 11-07-2003]

(1) Solvent Requirements

A person shall not use a solvent to perform solvent cleaning operations unless the solvent complies with the applicable requirements set forth below:

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	VOC g/l (lb/gal)
(A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application	
(i) General	25 (0.21)
(ii) Electrical Apparatus Components & Electronic Components	500 (4.2)
(iii) Medical Devices & Pharmaceuticals	800 (6.7)
(B) Repair and Maintenance Cleaning	
(i) General	25 (0.21)
(ii) Electrical Apparatus Components & Electronic Components	900 (7.5)



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 11-07-2003]

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	VOC g/l (lb/gal)
(iii) Medical Devices & Pharmaceuticals	
(A) Tools, Equipment, & Machinery	800 (6.7)
(B) General Work Surfaces	600 (5.0)
(C) Cleaning of Coatings or Adhesives Application Equipment	550 (4.6)
(D) Cleaning of Ink Application Equipment	
(i) General	25 (0.21)
(ii) Flexographic Printing	25 (0.21)
(iii) Gravure Printing	
(A) Publication	750 (6.3)
(B) Packaging	25 (0.21)
(iv) Lithographic or Letter Press Printing	



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 11-07-2003]

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS
	VOC g/l (lb/gal)
(A) Roller Wash – Step 1	600 (5.0)
(B) Roller Wash-Step 2, Blanket Wash, & On-Press Components	800 (6.7)
(C) Removable Press Components	25 (0.21)
(v) Screen Printing	750 (6.3)
(vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing)	800 (6.7)
(vii) Specialty Flexographic Printing	600 (5.0)
(E) Cleaning of Polyester Resin Application Equipment	25 (0.21)



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 05-01-2009]

(1) Solvent Requirements

A person shall not use a solvent to perform solvent cleaning operations unless the solvent complies with the applicable requirements set forth below:

	CURRENT LIMITS*	EFFECTIVE 1/1/2010
SOLVENT CLEANING ACTIVITY	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application		
(i) General	25 (0.21)	
(ii) Electrical Apparatus Components & Electronic Components	100 (0.83)	
(iii) Medical Devices & Pharmaceuticals	800 (6.7)	
(B) Repair and Maintenance Cleaning		
(i) General	25 (0.21)	
(ii) Electrical Apparatus Components & Electronic Components	100 (0.83)	



**FACILITY PERMIT TO OPERATE
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**APPENDIX B: RULE EMISSION LIMITS
[RULE 1171 05-01-2009]**

	CURRENT LIMITS*	EFFECTIVE 1/1/2010
SOLVENT CLEANING ACTIVITY (cont.)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(iii) Medical Devices & Pharmaceuticals		
(A) Tools, Equipment, & Machinery	800 (6.7)	
(B) General Work Surfaces	600 (5.0)	
(C) Cleaning of Coatings or Adhesives Application Equipment	25 (0.21)	
(D) Cleaning of Ink Application Equipment		
(i) General	25 (0.21)	
(ii) Flexographic Printing	25 (0.21)	
(iii) Gravure Printing		
(A) Publication	100 (0.83)	
(B) Packaging	25 (0.21)	
(iv) Lithographic (Offset) or Letter Press Printing		
(A) Roller Wash, Blanket Wash, & On-Press Components	100 (0.83)	



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 05-01-2009]

	CURRENT LIMITS*	EFFECTIVE 1/1/2010
SOLVENT CLEANING ACTIVITY (cont.)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(B) Removable Press Components	25 (0.21)	
(v) Screen Printing	100 (0.83)	
(vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing)	650 (5.4)	100 (0.83)
(vii) Specialty Flexographic Printing	100 (0.83)	
(E) Cleaning of Polyester Resin Application Equipment	25 (0.21)	

* The specified limits remain in effect unless revised limits are listed in subsequent columns.



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 05-06-2005]

(1) Solvent Requirements

A person shall not use a solvent to perform solvent cleaning operations unless the solvent complies with the applicable requirements set forth below:

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS*	Effective 7/1/2005*	Effective 7/1/2006
	VOC g/l (lb/gal)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(A) Product Cleaning During Manufacturing Process Or Surface Preparation For Coating, Adhesive, Or Ink Application			
(i) General	25 (0.21)		
(ii) Electrical Apparatus Components & Electronic Components	500 (4.2)	100 (0.83)	
(iii) Medical Devices & Pharmaceuticals	800 (6.7)		
(B) Repair and Maintenance Cleaning			
(i) General	25 (0.21)		
(ii) Electrical Apparatus Components & Electronic Components	900 (7.5)	100 (0.83)	
(iii) Medical Devices & Pharmaceuticals			



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 05-06-2005]

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS*	Effective 7/1/2005*	Effective 7/1/2006
	VOC g/l (lb/gal)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(A) Tools, Equipment, & Machinery	800 (6.7)		
(B) General Work Surfaces	600 (5.0)		
(C) Cleaning of Coatings or Adhesives Application Equipment	550 (4.6)	25 (0.21)	
(D) Cleaning of Ink Application Equipment			
(i) General	25 (0.21)		
(ii) Flexographic Printing	25 (0.21)		
(iii) Gravure Printing			
(A) Publication	750 (6.3)	100 (0.83)	
(B) Packaging	25 (0.21)		
(iv) Lithographic or Letter Press Printing			
(A) Roller Wash – Step 1	600 (5.0)	500 (4.2)	100 (0.83)
(B) Roller Wash-Step 2, Blanket Wash, & On-Press Components	800 (6.7)	500 (4.2)	100 (0.83)



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 1171 05-06-2005]

SOLVENT CLEANING ACTIVITY	CURRENT LIMITS*	Effective 7/1/2005*	Effective 7/1/2006
	VOC g/l (lb/gal)	VOC g/l (lb/gal)	VOC g/l (lb/gal)
(C) Removable Press Components	25 (0.21)		
(v) Screen Printing	750 (6.3)	500 (4.2)	100 (0.83)
(vi) Ultraviolet Ink/ Electron Beam Ink Application Equipment (except screen printing)	800 (6.7)	500 (4.2)	100 (0.83)
(vii) Specialty Flexographic Printing	600 (5.0)	100 (0.83)	
(E) Cleaning of Polyester Resin Application Equipment	25 (0.21)		

* The specified limits remain in effect unless revised limits are listed in subsequent columns.



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 404 02-07-1986]

The operator shall not discharge into the atmosphere from this equipment, particulate matter in excess of the concentration at standard conditions, shown in Table 404(a).

Where the volume discharged is between figures listed in the Table, the exact concentration permitted to be discharged shall be determined by linear interpolation.

For the purposes of this rule, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

TABLE 404(a)

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
		Milligrams per Cubic Meter	Grains per Cubic Foot			Milligrams per Cubic Meter	Grains per Cubic Foot
25 or less	883 or less	450	0.196	900	31780	118	0.0515
30	1059	420	.183	1000	35310	113	.0493
35	1236	397	.173	1100	38850	109	.0476
40	1413	377	.165	1200	42380	106	.0463
45	1589	361	.158	1300	45910	102	.0445



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 GEORGIA-PACIFIC GYPSUM LLC**

**APPENDIX B: RULE EMISSION LIMITS
 [RULE 404 02-07-1986]**

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter ² Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
Cubic meters Per Minute	Cubic feet Per Minute	Milligrams per Cubic Meter	Grains per Cubic Foot	Cubic meters Per Minute	Cubic feet Per Minute	Milligrams per Cubic Meter	Grains per Cubic Foot
50	1766	347	.152	1400	49440	100	.0437
60	2119	324	.141	1500	52970	97	.0424
70	2472	306	.134	1750	61800	92	.0402
80	2825	291	.127	2000	70630	87	.0380
90	3178	279	.122	2250	79460	83	.0362
100	3531	267	.117	2500	88290	80	.0349
125	4414	246	.107	3000	105900	75	.0327
150	5297	230	.100	4000	141300	67	.0293
175	6180	217	.0947	5000	176600	62	.0271
200	7063	206	.0900	6000	211900	58	.0253
250	8829	190	.0830	8000	282500	52	.0227
300	10590	177	.0773	10000	353100	48	.0210
350	12360	167	.0730	15000	529700	41	.0179
400	14130	159	.0694	20000	706300	37	.0162
450	15890	152	.0664	25000	882900	34	.0148



**FACILITY PERMIT TO OPERATE
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**APPENDIX B: RULE EMISSION LIMITS
 [RULE 404 02-07-1986]**

Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter ¹ Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions		Volume Discharged Calculated as Dry Gas At Standard Conditions		Maximum Concentration of Particulate Matter Allowed in Discharged Gas Calculated as Dry Gas at Standard Conditions	
		Milligrams per Cubic Meter	Grains per Cubic Foot			Milligrams per Cubic Meter	Grains per Cubic Foot
Cubic meters Per Minute	Cubic feet Per Minute			Cubic meters Per Minute	Cubic feet Per Minute		
500	17660	146	.0637	30000	1059000	32	.0140
600	21190	137	.0598	40000	1413000	28	.0122
700	24720	129	.0563	50000	1766000	26	.0114
800	28250	123	.0537	70000 or more	2472000 or more	23	.0100



FACILITY PERMIT TO OPERATE GEORGIA-PACIFIC GYPSUM LLC

APPENDIX B: RULE EMISSION LIMITS [RULE 405 02-07-1986]

The operator shall not discharge into the atmosphere from this equipment, solid particulate matter including lead and lead compounds in excess of the rate shown in Table 405(a).

Where the process weight per hour is between figures listed in the table, the exact weight of permitted discharge shall be determined by linear interpolation.

For the purposes of this rule, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.

TABLE 405(a)

Process Weight Per Hour		Maximum Discharge Rate Allowed for Solid Particulate Matter (Aggregate Discharged From All Points of Process		Process Weight Per Hour		Maximum Discharge Rate Allowed for Solid Particulate Matter (Aggregate Discharged From All points of Process	
		Kilograms Per Hour	Pounds Per Hour			Kilograms Per Hour	Pounds Per Hour
100 or less	220 or less	0.450	0.99	9000	19840	5.308	11.7
150	331	0.585	1.29	10000	22050	5.440	12.0
200	441	0.703	1.55	12500	27560	5.732	12.6
250	551	0.804	1.77	15000	33070	5.982	13.2
300	661	0.897	1.98	17500	38580	6.202	13.7
350	772	0.983	2.17	20000	44090	6.399	14.1
400	882	1.063	2.34	25000	55120	6.743	14.9
450	992	1.138	2.51	30000	66140	7.037	15.5
500	1102	1.209	2.67	35000	77160	7.296	16.1
600	1323	1.340	2.95	40000	88180	7.527	16.6



**FACILITY PERMIT TO OPERATE
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**APPENDIX B: RULE EMISSION LIMITS
 [RULE 405 02-07-1986]**

Process Weight Per Hour		Maximum Discharge Rate Allowed for Solid Particulate Matter (Aggregate Discharged From All Points of Process)		Process Weight Per Hour		Maximum Discharge Rate Allowed for Solid Particulate Matter (Aggregate Discharged From All points of Process)	
Kilograms Per Hour	Pounds Per Hour	Kilograms Per Hour	Pounds Per Hour	Kilograms Per Hour	Pounds Per Hour	Kilograms Per Hour	Pounds Per Hour
700	1543	1.461	3.22	45000	99210	7.738	17.1
800	1764	1.573	3.47	50000	110200	7.931	17.5
900	1984	1.678	3.70	60000	132300	8.277	18.2
1000	2205	1.777	3.92	70000	154300	8.582	18.9
1250	2756	2.003	4.42	80000	176400	8.854	19.5
1500	3307	2.206	4.86	90000	198400	9.102	20.1
1750	3858	2.392	5.27	100000	220500	9.329	20.6
2000	4409	2.563	5.65	125000	275600	9.830	21.7
2250	4960	2.723	6.00	150000	330700	10.26	22.6
2500	5512	2.874	6.34	175000	385800	10.64	23.5
2750	6063	3.016	6.65	200000	440900	10.97	24.2
3000	6614	3.151	6.95	225000	496000	11.28	24.9
3250	7165	3.280	7.23	250000	551200	11.56	25.5
3600	7716	3.404	7.50	275000	606300	11.82	26.1
4000	8818	3.637	8.02	300000	661400	12.07	26.6
4500	9921	3.855	8.50	325000	716500	12.30	27.1
5000	11020	4.059	8.95	350000	771600	12.51	27.6
6000	13230	4.434	9.78	400000	881800	12.91	28.5
7000	15430	4.775	10.5	450000	992100	13.27	29.3
8000	17640	5.089	11.2	500000 or more	1102000 or more	13.60	30.0