



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

Title Page
Facility ID: 012155
Revision #: 34
Date: October 14, 2010

FACILITY PERMIT TO OPERATE

ARMSTRONG WORLD INDUSTRIES INC
5037 PATATA ST
SOUTH GATE, CA 90280

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 *Ferd Lopez* FOR
Mohsen Nazemi, P.E.
Deputy Executive Officer
Engineering & Compliance



FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

TABLE OF CONTENTS

Section	Description	Revision #	Date Issued
A	Facility Information	8	10/14/2010
B	RECLAIM Annual Emission Allocation	18	10/14/2010
C	Facility Plot Plan	TO BE DEVELOPED	
D	Facility Description and Equipment Specific Conditions	19	10/14/2010
E	Administrative Conditions	10	10/14/2010
F	RECLAIM Monitoring and Source Testing Requirements	8	10/14/2010
G	Recordkeeping and Reporting Requirements for RECLAIM Sources	9	10/14/2010
H	Permit To Construct and Temporary Permit to Operate	14	10/14/2010
I	Compliance Plans & Schedules	5	10/14/2010
J	Air Toxics	2	10/14/2010
K	Title V Administration	2	10/14/2010
Appendix			
A	NOx and SOx Emitting Equipment Exempt From Written Permit Pursuant to Rule 219	5	10/14/2010
B	Rule Emission Limits	2	10/14/2010

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

SECTION A: FACILITY INFORMATION

LEGAL OWNER &/OR OPERATOR: ARMSTRONG WORLD INDUSTRIES INC

LEGAL OPERATOR (if different than owner):

EQUIPMENT LOCATION: 5037 PATATA ST
SOUTH GATE, CA 90280-3555

MAILING ADDRESS: 5037 PATATA ST
SOUTH GATE, CA 90280

RESPONSIBLE OFFICIAL: RON C. THOMPSON

TITLE: PLANT MANAGER

TELEPHONE NUMBER: (323) 562-7215

CONTACT PERSON: JAMES PATTON

TITLE: ENVIRONMENTAL HEALTH & SAFETY
MANAGER

TELEPHONE NUMBER: (323) 562-7227

TITLE V PERMIT ISSUED: October 14, 2010

TITLE V PERMIT EXPIRATION DATE: October 13, 2015

TITLE V		RECLAIM	
YES	NOx:	YES	
	SOx:	NO	
	CYCLE:	1	
	ZONE:	COASTAL	

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

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 10/14/2010 (pounds)	Non-Tradable ² Non-Usable RTCs (pounds)
7/2007 6/2008	Coastal	0	0	0
1/2008 12/2008	Coastal	2972	549	80
7/2008 6/2009	Coastal	0	0	0
1/2009 12/2009	Coastal	2972	572	160
7/2009 6/2010	Coastal	0	1000	0
1/2010 12/2010	Coastal	2972	3884	241
1/2011 12/2011	Coastal	2972	2303	321
1/2012 12/2012	Coastal	2972	2303	321
1/2013 12/2013	Coastal	2972	2303	321
1/2014 12/2014	Coastal	2972	2303	321
1/2015 12/2015	Coastal	2972	2303	321
1/2016 12/2016	Coastal	2972	2303	321
1/2017 12/2017	Coastal	2972	2303	321
1/2018 12/2018	Coastal	2972	2303	321
1/2019 12/2019	Coastal	2972	2303	321
1/2020 12/2020	Coastal	2972	2303	321
1/2021 12/2021	Coastal	2972	2303	321

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 ARMSTRONG WORLD INDUSTRIES INC

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 10/14/2010 (pounds)	Non-Tradable ² Non-Usable RTCs (pounds)
1/2022 12/2022	Coastal	2972	2303	321
1/2023 12/2023	Coastal	2972	2303	321
1/2024 12/2024	Coastal	2972	2303	321
1/2025 12/2025	Coastal	2972	2303	321

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
 ARMSTRONG WORLD INDUSTRIES INC**

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)
1/1994	12/1994	Coastal	6920	482

**FACILITY PERMIT TO OPERATE
ARMSTRONG WORLD INDUSTRIES INC**

SECTION C: FACILITY PLOT PLAN

(TO BE DEVELOPED)

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

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: BULK MATERIALS UNLOADING/CONVEYING					
UNLOADING ARM, TANK TRUCK, PVC A/N: C31097	D1			PM: (9) [RULE 405, 2-7-1986]	D323.1
STORAGE SILO, NO. 1, HOMOPOLYMER, 300,000 POUNDS A/N: C31097	D2	C4		PM: (9) [RULE 405, 2-7-1986]	D323.2
STORAGE SILO, NO. 2, COPOLYMER, 300,000 POUNDS A/N: C31097	D3	C204		PM: (9) [RULE 405, 2-7-1986]	D323.2
BAGHOUSE, 200 SQ.FT. A/N: C34334	C4	D2		PM: (9) [RULE 404, 2-7-1986]	A63.1, D322.1, D381.1, E102.1, H23.5, K67.2
CONVEYOR, PNEUMATIC A/N: 466825	D219			PM: (9) [RULE 405, 2-7-1986]	C1.1, D323.1, K48.1
BIN, SURGE, 126 CU.FT., HOMOPOLYMER, (FILTER #13), WITH 30 CARTRIDGES, 324 SQ. FT. TOTAL FILTER AREA, PULSE-JET CLEANING A/N: 466825	D6			PM: (9) [RULE 404, 2-7-1986; RULE 405, 2-7-1986]	A63.1, C1.1, D322.1, D381.1, E184.1, H23.5, K48.1, K67.2
BIN, SURGE, 126 CU.FT., COPOLYMER, FILTER (#14), WITH 30 CARTRIDGES, 324 SQ.FT. FILTER AREA, PULSE-JET CLEANING A/N: 466825	D7			PM: (9) [RULE 404, 2-7-1986; RULE 405, 2-7-1986]	A63.1, C1.1, D322.1, D381.1, E184.1, H23.5, K48.1, K67.2
FEEDER, VINYL BAG LOADING/UNLOADING STATION A/N: 466825	D213	C212		PM: (9) [RULE 404, 2-7-1986; RULE 405, 2-7-1986]	C1.1, D323.2, K48.1

- * (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 ARMSTRONG WORLD INDUSTRIES INC

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: BULK MATERIALS UNLOADING/CONVEYING					
BIN, SURGE, NO. 1M, 60 SQ. FT. FILTER AREA, WITH FABRIC FILTER A/N: 466825	D11			PM: (9) [RULE 404, 2-7-1986; RULE 405, 2-7-1986]	A63.1, C1.1, D322.1, D381.1, E184.1, K48.1, K67.2
BIN, NO. 2M, 60 SQ. FT. FILTER AREA, WITH FABRIC FILTER A/N: 466825	D12			PM: (9) [RULE 404, 2-7-1986; RULE 405, 2-7-1986]	A63.1, D322.1, D381.1, E184.1, H23.5, K48.1, K67.2
BIN, SURGE, NO. 1T, 60 SQ. FT. FILTER AREA, WITH FABRIC FILTER A/N: 466825	D13			PM: (9) [RULE 404, 2-7-1986; RULE 405, 2-7-1986]	A63.1, C1.1, D322.1, D381.1, E184.1, H23.5, K48.1, K67.2
BIN, NO. 2T, 60 SQ. FT. FILTER AREA, WITH FABRIC FILTER A/N: 466825	D14			PM: (9) [RULE 404, 2-7-1986; RULE 405, 2-7-1986]	A63.1, C1.1, D322.1, D381.1, E184.1, H23.5, K48.1, K67.2
BIN, SURGE, 3M, 60 SQ. FT. FILTER AREA, WITH FABRIC FILTER A/N: 466825	D214			PM: (9) [RULE 404, 2-7-1986; RULE 405, 2-7-1986]	A63.1, C1.1, D322.1, D381.1, E184.1, H23.5, K48.1, K67.2
BAGHOUSE, FLEXICON, MODEL NO. BV-SBOT-X, 1 CARTRIDGE, 10 IN DIA. X 1 FT 6 IN H., 50 SQ. FT. TOTAL FILTER AREA, WITH PULSE JET CLEANING SYSTEM, 0.5 H.P. BLOWER A/N: 466823	C212	D213		PM: (9) [RULE 404, 2-7-1986]	A63.1, D322.1, D381.2, E102.1, H23.5, K67.2
BIN, TIPPER, SHOVEL-IN A/N: 466826	D15	C135		PM: (9) [RULE 405, 2-7-1986]	C1.2, D323.2, K48.1

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

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

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: BULK MATERIALS UNLOADING/CONVEYING					
HOPPER, DUMP, SHOVEL-IN, WITH A DUST COLLECTOR/RECEIVER #15, 30 CARTRIDGES, 450 SQ. FT. TOTAL FILTER AREA, AND A PULSE-JET CLEANING SYSTEM A/N: 466826	D16			PM: (9) [RULE 404, 2-7-1986; RULE 405, 2-7-1986]	A63.1, C1.2, D322.1, D381.1, H23.5, K48.1, K67.2
FEEDER, VINYL BAG LOADING/UNLOADING STATION A/N: 466826	D215			PM: (9) [RULE 405, 2-7-1986]	C1.2, D323.1, K48.1
CONVEYOR, VIBRATING A/N: 466826	D216			PM: (9) [RULE 405, 2-7-1986]	C1.2, D323.1, K48.1
CONVEYOR, SCREW, ENCLOSED A/N: 466826	D217			PM: (9) [RULE 405, 2-7-1986]	C1.2, D323.1, K48.1
CONVEYOR, SCREW, ENCLOSED A/N: 466826	D218			PM: (9) [RULE 405, 2-7-1986]	C1.2, D323.1, K48.1
STORAGE SILO, LIMESTONE, 9368 CU. FT. CAPACITY A/N: 430224	D17	C19 C30 C32		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
UNLOADING ARM, TANK TRUCK, LIMESTONE A/N: 430224	D18	C19		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
BAGHOUSE, 812 SQ.FT. A/N: 430224	C19	D17 D18		PM: (9) [RULE 404, 2-7-1986]	A63.1, D322.1, D381.2, E102.1, E184.1, H23.5, K67.2
CONVEYOR, BELT, LIMESTONE, TO FRESH SCALE A/N: 430225	D28	C136		PM: (9) [RULE 405, 2-7-1986]	D323.2
CONVEYOR, BELT, LIMESTONE, TO FRESH SCALE A/N: 430225	D29	C136		PM: (9) [RULE 405, 2-7-1986]	D323.2

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

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Equipment	ID No.	Connected To	RECLAIM Source Type/ Monitoring Unit	Emissions * And Requirements	Conditions
Process 1: BULK MATERIALS UNLOADING/CONVEYING					
BAGHOUSE, IN SURGE BIN, 1200 CU FT, FURNISH LINE LIMESTONE, NO. 22, 104 CARTRIDGES, 1852 TOTAL FILTER AREA, WITH PULSE JET CLEANING A/N: 430225	C30	D17		PM: (9) [RULE 404, 2-7-1986]	A63.1, D322.1, D381.2, E102.1, H23.5, K67.2
WEIGH STATION, FURNISH LINE, WITH SCALE & CONVEYOR A/N: 430225	D31	C136		PM: (9) [RULE 405, 2-7-1986]	D323.2
BAGHOUSE, IN SURGE BIN, 130 CU FT., MOTTLE LINE LIMESTONE, 64 CARTRIDGES, 1140 SQ. FT. TOTAL FILTER AREA, WITH PULSE JET CLEANING SYSTEM A/N: 430225	C32	D17		PM: (9) [RULE 404, 2-7-1986]	A63.1, D322.1, D381.2, E102.1, H23.5, K67.2
WEIGH STATION, MOTTLE LINE, WITH SCALE A/N: 430225	D33	C133		PM: (9) [RULE 405, 2-7-1986]	D323.2
FEEDER, POLYVINYL BUTYRAL, AUTOMATIC BAG UNLOADING STATION A/N: 430225	D194			PM: (9) [RULE 405, 2-7-1986]	D323.1
BAGHOUSE, ROTO LINE LIMESTONE, 812 SQ.FT. A/N: 408998	C34	D175		PM: (9) [RULE 404, 2-7-1986]	A63.1, D322.1, D381.2, E102.1, H23.5, K67.2
BAGHOUSE, ROTO LINE COPOLYMER, 224 SQ.FT. A/N: 408998	C35	D176		PM: (9) [RULE 404, 2-7-1986]	A63.1, D322.1, D381.1, E102.1, H23.5, K67.2

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

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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: BULK MATERIALS UNLOADING/CONVEYING					
BAGHOUSE, ROTO LINE HOMOPOLYMER, 224 SQ.FT. A/N: 408998	C36	D177		PM: (9) [RULE 404, 2-7-1986]	A63.1, D322.1, D381.1, E102.1, H23.5, K67.2
CONVEYOR, LIMESTONE A/N: A35391	D159			PM: (9) [RULE 405, 2-7-1986]	D323.1
HOPPER, LIMESTONE A/N: 408998	D175	C34		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
HOPPER, COPOLYMER A/N: 408998	D176	C35		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
HOPPER, HOMOPOLYMER A/N: 408998	D177	C36		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
HOPPER, SMALL VINYL HOLDING A/N: 361850	D199	C132		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
HOPPER, SMALL VINYL HOLDING, A/N: 361850	D200	C132		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
WEIGH STATION, TILE LINE COLOR A/N: 361850	D201	C132		PM: (9) [RULE 405, 2-7-1986]	D323.2
BIN, TIPPER, MOTTLE LINE, & DISCHARGE CONVEYOR A/N: 430227	D202	C133		PM: (9) [RULE 405, 2-7-1986]	D323.2
BAGHOUSE, 3 FT 8 IN W. X 3 FT 8 IN L. X 8 FT H., U.S. FILTRATION INC., MODEL 55-BVPS-84-6, PULSE-JET, U.S. FILTRATION, 275 SQ.FT.; 25 BAGS A/N: 392361	C204	D3		PM: (9) [RULE 404, 2-7-1986]	A63.1, D12.1, D322.1, D381.2, E102.1, H23.5, K67.2
Process 2: MIXING					
MIXER, NO. 1, 21 CU FT CAPACITY A/N: A35380	D37	C131 C133		PM: (9) [RULE 405, 2-7-1986]	D323.2

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

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

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: MIXING					
MIXER, NO. 2, 21 CU FT CAPACITY A/N: A35381	D38	C131 C133		PM: (9) [RULE 405, 2-7-1986]	D323.2
MIXER, NO. 3, 21 CU FT CAPACITY A/N: A35382	D39	C132 C133		PM: (9) [RULE 405, 2-7-1986]	D323.2
MIXER, MO. 4, 21 CU FT CAPACITY A/N: A35383	D40	C132 C133		PM: (9) [RULE 405, 2-7-1986]	D323.2
MIXER, NO. 5, 21 CU FT CAPACITY A/N: A35384	D41	C131 C133		PM: (9) [RULE 405, 2-7-1986]	D323.2
MIXER, NO. 6, 21 CU FT CAPACITY A/N: A35385	D42	C131 C133		PM: (9) [RULE 405, 2-7-1986]	D323.2
MIXER, NO. 7, 21 CU FT CAPACITY A/N: A35386	D43	C132 C133		PM: (9) [RULE 405, 2-7-1986]	D323.2
MIXER, NO. 8, 21 CU FT CAPACITY A/N: A35387	D44	C133		PM: (9) [RULE 405, 2-7-1986]	D323.2
MIXER, NO. 9, 21 CU FT CAPACITY A/N: A35388	D45	C133		PM: (9) [RULE 405, 2-7-1986]	D323.2
MIXER, NO. 10, 21 CU FT CAPACITY A/N: A35390	D46	C133		PM: (9) [RULE 405, 2-7-1986]	D323.2
MIXER, NO. 11, 21 CU FT CAPACITY A/N: 330092	D47	C133		PM: (9) [RULE 405, 2-7-1986]	C1.6, D323.2, K48.1
MIXER, FARREL A/N: 408998	D118	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
MIXER, BLENDER, EIRICH A/N: 408998	D120	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
MIXER, TYPE K, 100 GALS A/N: 330085	D168	C133		PM: (9) [RULE 405, 2-7-1986]	C1.6, D323.2, K48.1
CONVEYOR, BELT, MIXER FEED A/N: 408998	D178	C137		PM: (9) [RULE 405, 2-7-1986]	D323.2
Process 3: FLOOR TILE MANUFACTURING					
CONVEYOR, PNEUMATIC, GRAPEFRUIT BIN A/N: 430227	D55	C132		PM: (9) [RULE 405, 2-7-1986]	C1.4, D323.2, K48.1

- * (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 ARMSTRONG WORLD INDUSTRIES INC

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: FLOOR TILE MANUFACTURING					
MILL, ROLL, FURNISH LINE A/N: 431620	D56	C135		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
MILL, ROLL, TILE LINE A/N: 431620	D57	C136		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
CUTTER, SLITTER DICER, 50 HP A/N: 431620	D58	C135		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
CONVEYOR, SCREW, SURGE HOPPER DISCHARGE A/N: 431620	D59	C135		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
CONVEYOR, BELT, MILL DISCHARGE A/N: 431620	D60	C135		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
CONVEYOR, BELT, DICER INFEED A/N: 431620	D61	C135		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
CONVEYOR, BELT, DICER DISCHARGE A/N: 431620	D62	C135		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
CONVEYOR, BELT, BLENDER FEED A/N: 431620	D63	C135		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
CONVEYOR, BELT, BLENDER DISCHARGE A/N: 431620	D64	C135		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
CONVEYOR, BELT, SURGE HOPPER INFEED A/N: 431620	D65	C135		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
CONVEYOR, BELT, SIFTER FEED A/N: 431620	D66	C135		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
CONVEYOR, BELT, SIFTER DISCHARGE A/N: 431620	D67	C135		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1

- * (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 ARMSTRONG WORLD INDUSTRIES INC

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: FLOOR TILE MANUFACTURING					
CONVEYOR, BELT, STEADMAN MILL DISCHARGE A/N: 431620	D68	C135		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
CONVEYOR, BELT, LEAVING SIFTER A/N: 431620	D69	C135		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
MIXER, JAEGER BLENDER, 243 CU.FT. A/N: 431620	D72	C135		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
MIXER, JAEGER BLENDER, 243 CU.FT. A/N: 431620	D73	C135		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
HOPPER, SURGE, FURNISH LINE A/N: 431620	D74	C135		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
HOPPER, CAGE MILL A/N: 431620	D75	C135		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
HOPPER, HEATER FEEDER & CONVEYOR A/N: 431620	D76	C135		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
HOPPER, MILL CHUTE (TILE) A/N: 431620	D77	C136		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
HOPPER, REGRINDS & CONVEYOR A/N: 431620	D78	C135		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2
BIN, SCRAP C A/N: 431620	D79	C135		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
BIN, SCRAP D A/N: 431620	D80	C135		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
BIN, REGRIND STATION A/N: 431620	D81	C133		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
BIN, FINES SYSTEM A/N: 431620	D82	C135		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1

- * (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 ARMSTRONG WORLD INDUSTRIES INC

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: FLOOR TILE MANUFACTURING					
FILTER, FINES SYSTEM PNEUMATIC CONVEYOR, 229 SQ.FT. A/N: 431620	C83	D90		PM: (9) [RULE 404, 2-7-1986]	A63.1, C1.3, D322.1, D381.1, E102.1, H23.5, K48.1, K67.2
BIN, TILTER REGRINDS & CONVEYOR A/N: 431620	D84	C135		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
BIN, TILTER REGRINDS & CONVEYOR A/N: 431620	D85	C135		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
CHARGING WELL, GRANULATOR CHARGING CHUTE A/N: 431620	D89	C135		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
MILL, GRANULATOR (STEADMAN) A/N: 431620	D90	C83 C135		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
MILL, ROLL, FIRST PASS (CALENDAR # 1) A/N: 431620	D91	C136		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
MILL, ROLL, (CALENDAR # 2) A/N: 431620	D92	C136		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
CYCLONE A/N: 431620	C93	D94 D95		PM10: (9) [RULE 404, 2-7-1986]	A63.1, D323.1, H23.5
HEATER, CHIP, NATURAL GAS, (HEATER FEEDER, NORTH BURNER), 2.2 MMBTU/HR A/N: 431620	D94	C93 C136	NOX: PROCESS UNIT**	CO: 2000 PPMV (5A) [RULE 407, 4-2-1982]; NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	C1.3, D323.2, K48.1

* (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 ARMSTRONG WORLD INDUSTRIES INC

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: FLOOR TILE MANUFACTURING					
HEATER, CHIP, NATURAL GAS, (HEATER FEEDER, SOUTH BURNER), 2.2 MMBTU/HR A/N: 431620	D95	C93 C136	NOX: PROCESS UNIT**	CO: 2000 PPMV (5A) [RULE 407, 4-2-1982]; NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	C1.3, D323.2, K48.1
HEATER, NO. 1, NATURAL GAS, 1.8 MMBTU/HR A/N: 431620	D96	C136	NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	C1.3, D323.2, K48.1
HEATER, NO. 2, NATURAL GAS, 1.3 MMBTU/HR A/N: 431620	D97	C136	NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	C1.3, D323.2, K48.1
HOPPER, PETROLEUM RESIN, (BAG HANDLING SYSTEM) A/N: 408998	D99	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
HOPPER, SCRAP, (BIN TIPPER # 1) A/N: 408998	D100	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
HOPPER, SCRAP, (BIN TIPPER # 2) A/N: 408998	D101	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
HOPPER, SCRAP, (STABILIZER) A/N: 408998	D102	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
HOPPER, BAGHOUSE DUST, (DUST TIPPER) A/N: 408998	D103	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1

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

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FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

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: FLOOR TILE MANUFACTURING					
UNLOADING ARM, SCRAP DISCHARGING STATION, RETURN SCRAP A/N: 408998	D104	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
UNLOADING ARM, SCRAP DISCHARGING STATION, NO. 1 A/N: 408998	D105	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
UNLOADING ARM, SCRAP DISCHARGING STATION NO. 2 A/N: 408998	D106	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
UNLOADING ARM, SCRAP DISCHARGING STATION, BLENDER BYPASS A/N: 408998	D107	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
UNLOADING ARM, SCRAP DISCHARGING STATION, MIXER BYPASS A/N: 408998	D108	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
UNLOADING ARM, SCRAP DISCHARGING STATION, MILL BYPASS A/N: 408998	D109	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
WEIGH STATION, PIGMENT A/N: 408998	D110	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
WEIGH STATION, PIGMENT A/N: 408998	D111	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
WEIGH STATION, PIGMENT A/N: 408998	D112	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
WEIGH STATION, PIGMENT A/N: 408998	D113	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
WEIGH STATION, STABILIZER, SCALE A/N: 408998	D114	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1

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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 |
|--|--|

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FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

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: FLOOR TILE MANUFACTURING					
WEIGH STATION, RESIN, SCALE A/N: 408998	D115	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
WEIGH STATION, LIMESTONE, SCALE A/N: 408998	D116	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
BULK MATERIAL LOAD/UNLOAD STATION, BAG STATION, LIMESTONE, PURGING, LIMESTONE RECEIVER A/N: 408998	D117	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
MILL A/N: 408998	D119	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
CONVEYOR, BELT A/N: 408998	D121	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
CONVEYOR, BELT A/N: 408998	D122	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
CONVEYOR, BELT A/N: 408998	D123	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
CONVEYOR, BELT A/N: 408998	D124	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
CONVEYOR, BELT A/N: 408998	D125	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
CONVEYOR, BELT A/N: 408998	D126	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
GRINDER, SCRAP CHOPPER A/N: 408998	D127	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
HEATER, FRONT ROLL EDGE, NATURAL GAS, 0.35 MMBTU/HR A/N: 408998	D128	C137	NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	D323.2

* (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 ARMSTRONG WORLD INDUSTRIES INC

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: FLOOR TILE MANUFACTURING					
HEATER, NATURAL GAS, 0.26 MMBTU/HR A/N: 408998	D129	C137	NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	D323.2
HEATER, NATURAL GAS, 0.28 MMBTU/HR A/N: 408998	D130	C137	NOX: PROCESS UNIT**	CO: 2000 PPMV (5) [RULE 407, 4-2-1982]; NOX: 130 LBS/MMSCF NATURAL GAS (1) [RULE 2012, 5-6-2005]; PM: (9) [RULE 404, 2-7-1986]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	D323.2
BAGHOUSE, NO. 1, 8 FT W. X 17 FT 6 IN L. X 15 FT 3/4 IN H., PANGBORN, MODEL TYPE CH, PULSE-JET, U.S. FILTRATION MODEL NO. 229-CKPT-120-SP, 2889 SQ.FT.; 180 BAGS A/N: 431618	C131	D37 D38 D41 D42 D198		PM: (9) [RULE 404, 2-7-1986]	A63.1, D12.1, D322.1, D381.2, E102.1, E193.1, H23.5, K67.2
BAGHOUSE, NO. 2, 8 FT W. X 17 FT 6 IN L. X 15 FT 3/4 IN H., PANGBORN, MODEL CH-3-67, PULSE-JET, U.S. FILTRATION MODEL NO. 229-CKPT-120-SP, 3109 SQ.FT.; 198 BAGS A/N: 361850	C132	D39 D40 D43 D48 D53 D54 D55 D163 D164 D165 D166 D181 D182 D189 D190 D199 D200 D201		PM: (9) [RULE 404, 2-7-1986]	A63.1, D12.1, D322.1, D381.2, E102.1, E193.1, H23.5, K67.2

* (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 ARMSTRONG WORLD INDUSTRIES INC

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: FLOOR TILE MANUFACTURING					
BAGHOUSE, NO. 3, 7 FT 10 IN W. X 30 FT 1/4 IN L. 15 FT 3/4 IN H., SLY, MODEL TYPE "A" DYNACLONE, PULSE-JET, U.S. FILTRATION MODEL NO. 229-CKPT-1206-, 6218 SQ.FT.; 396 BAGS A/N: 361849	C133	D33 D37 D38 D39 D40 D41 D42 D43 D44 D45 D46 D47 D49 D81 D168 D202		PM: (9) [RULE 404, 2-7-1986]	A63.1, D12.1, D322.1, D381.2, E102.1, E193.1, H23.5, K67.2
BAGHOUSE, NO. 18, FLEX-CLEAN, MODEL 144WMWC-390 ARRIII, 180 FILTER BAGS, 7200 SQ.FT. FILTER AREA, PULSE-JET TYPE CLEANING A/N: 461978	C135	D15 D56 D58 D59 D60 D61 D62 D63 D64 D65 D66 D67 D68 D69 D72 D73 D74 D75 D76 D78 D79 D80 D82 D84 D85 D89 D90 D161 D162 D192 D193		PM: (9) [RULE 404, 2-7-1986]	A63.1, D322.1, D381.2, E102.1, E193.1, H23.5, K67.2
BAGHOUSE, NO. 4, 8 FT 4 IN W X 16 FT L X 15 FT H, WESTERN PRECIPITATION, MODEL MS-12-180, PULSE-JET TYPE, 3400 SQ.FT.; 180 BAGS A/N: 392407	C136	D28 D29 D31 D57 D77 D91 D92 D94 D95 D96 D97 D179 D180 D183 D184 D185 D186 D187 D188 D196 D197		PM: (9) [RULE 404, 2-7-1986]	A63.1, D322.1, D381.2, E102.1, E193.1, H23.5, K67.2

* (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 ARMSTRONG WORLD INDUSTRIES INC

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: FLOOR TILE MANUFACTURING					
BAGHOUSE, NO. 19, FLEX-CLEAN, MODEL 144-WSWC-324, PULSE-JET CLEANING SYSTEM, 5967 SQ.FT.; 714 BAGS A/N: 408999	C137	D99 D100 D101 D102 D103 D104 D105 D106 D107 D108 D109 D110 D111 D112 D113 D114 D115 D116 D117 D118 D119 D120 D121 D122 D123 D124 D125 D126 D127 D128 D129 D130 D178 D205 D206 D207		PM: (9) [RULE 404, 2-7-1986]	A63.1, D322.1, D381.2, E102.1, E193.1, H23.5, K67.2
HOPPER, DUMP A/N: 430227	D48	C132		PM: (9) [RULE 405, 2-7-1986]	C1.4, D323.2, K48.1
MILL, MOTTLE A/N: 430227	D49	C133		PM: (9) [RULE 405, 2-7-1986]	C1.4, D323.2, K48.1
BIN, TILE CHIP, RECEIVING STATION, 64 CU.FT. A/N: 430227	D50			PM: (9) [RULE 405, 2-7-1986]	C1.4, D323.1, K48.1
BIN, TILE CHIP, RECEIVING STATION, 64 CU.FT. A/N: 430227	D51			PM: (9) [RULE 405, 2-7-1986]	C1.4, D323.1, K48.1
CRUSHER, SAW TOOTH A/N: 430227	D52			PM: (9) [RULE 405, 2-7-1986]	C1.4, D323.1, K48.1
BIN, TILE CHIP, TILTER A/N: 430227	D53	C132		PM: (9) [RULE 405, 2-7-1986]	C1.4, D323.2, K48.1

- * (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 ARMSTRONG WORLD INDUSTRIES INC

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: FLOOR TILE MANUFACTURING					
BIN, GRAPEFRUIT, 800 CU.FT., 8 COMPARTMENTS, FILTER (#24), 62 CARTRIDGES, TOTAL 1104 SQ.FT. FILTER AREA, PULSE-JET CLEANING A/N: 430227	D54	C132		PM: (9) [RULE 405, 2-7-1986]	A63.1, C1.4, D322.1, D381.2, H23.5, K48.1, K67.2
CONVEYOR, BELT, FOR WILLIAMS CRUSHER A/N: 431620	D161	C135		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
CRUSHER, WILLIAMS, 75 H.P. A/N: 431620	D162	C135		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
HOPPER, RECEIVING, WITH SUPER SACK (TITANIUM DIOXIDE) A/N: 431620	D163	C132		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
WEIGH STATION, PIGMENT (TITANIUM DIOXIDE) A/N: 431620	D164	C132		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
CONVEYOR, SCREW FEEDER A/N: 431620	D165	C132		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
CONVEYOR, BELT, DISCHARGE A/N: 431620	D166	C132		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
HOPPER, DUMP, SCRAP SURGE, WITH FABRIC FILTER A/N: A11430	D179	C136		PM: (9) [RULE 405, 2-7-1986]	D323.2
HOPPER, DUMP, AGGREGATE WEIGH, WITH FABRIC FILTER A/N: A11430	D180	C136		PM: (9) [RULE 405, 2-7-1986]	D323.2
BIN, SCRAP, WITH TILTER A/N: A11430	D181	C132		PM: (9) [RULE 405, 2-7-1986]	D323.2
CONVEYOR, BELT, FOR SURGE BIN A/N: A11430	D182	C132		PM: (9) [RULE 405, 2-7-1986]	D323.2
CONVEYOR, BELT A/N: A11430	D183	C136		PM: (9) [RULE 405, 2-7-1986]	D323.2

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| * (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 ARMSTRONG WORLD INDUSTRIES INC

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: FLOOR TILE MANUFACTURING					
CONVEYOR, BELT A/N: A11430	D184	C136		PM: (9) [RULE 405, 2-7-1986]	D323.2
CONVEYOR, BELT A/N: A11430	D185	C136		PM: (9) [RULE 405, 2-7-1986]	D323.2
CONVEYOR, BELT A/N: A11430	D186	C136		PM: (9) [RULE 405, 2-7-1986]	D323.2
CONVEYOR, BELT A/N: A11430	D187	C136		PM: (9) [RULE 405, 2-7-1986]	D323.2
CONVEYOR, BELT A/N: A11430	D188	C136		PM: (9) [RULE 405, 2-7-1986]	D323.2
BIN, SCRAP HYDRAULIC DUMP, 64 CU.FT. A/N: A11430	D189	C132		PM: (9) [RULE 405, 2-7-1986]	D323.2
CONVEYOR, BELT A/N: A11430	D190	C132		PM: (9) [RULE 405, 2-7-1986]	D323.2
SCREEN, CLASSIFYING, FINISH LINE SIFTER A/N: 431620	D193	C135		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
CONVEYOR, BELT, LEAVING SIFTER A/N: 431620	D192	C135		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
CONVEYOR, BELT, TILE LINE SCRAP, #7 & SCRAP CHUTE A/N: 431618	D196	C136		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
CONVEYOR, BELT, FURNISH LINE A & SCRAP CHUTE A/N: 431618	D197	C136		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1
CONVEYOR, BELT, SCRAP, #8 A/N: 431618	D198	C131		PM: (9) [RULE 405, 2-7-1986]	C1.3, D323.2, K48.1

* (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 ARMSTRONG WORLD INDUSTRIES INC

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: FLOOR TILE MANUFACTURING					
HOPPER, ACCURATE, MODEL NO. 1200-91-0503, TITANIUM OXIDE PIGMENT WITH A 2000 LBS SUPER-SACK A/N: 408998	D205	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
WEIGH STATION, TITANIUM OXIDE PIGMENT, SCALE A/N: 408998	D206	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
CONVEYOR, BELT, TITANIUM OXIDE PIGMENT A/N: 408998	D207	C137		PM: (9) [RULE 405, 2-7-1986]	C1.7, D323.2, K48.1
Process 4: GRINDING					P20.1
BIN, STATION A/N: 461979	D145	C149		PM: (9) [RULE 405, 2-7-1986]	D323.2
BIN, WEIGH, BAG LIFTING STATION A/N: 461979	D195			PM: (9) [RULE 405, 2-7-1986]	D323.1
BIN, STATION A/N: 461979	D146	C149		PM: (9) [RULE 405, 2-7-1986]	D323.2
BIN, STATION A/N: 461979	D147	C149		PM: (9) [RULE 405, 2-7-1986]	D323.2
MILL, CAGE A/N: 461979	D148	C149		PM: (9) [RULE 405, 2-7-1986]	D323.2
BAGHOUSE, NO. 8, 4 FT W. X 8 FT 0.5 IN L. X 9 FT 11 IN W., SLY, MODEL 22, WITH 1 H.P. AUTOMATIC SHAKER, 1536 SQ.FT.; 64 BAGS A/N: 461980	C149	D140 D141 D145 D146 D147 D148 D210 D211		PM: (9) [RULE 404, 2-7-1986]	A63.1, D322.1, D381.2, E102.1, H23.5, K67.2

- * (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 ARMSTRONG WORLD INDUSTRIES INC

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: GRINDING					P20.1
BAGHOUSE, NO. 7, FLEX-KLEEN, MODEL 84-CT-46, PULSE-JET, 460 SQ.FT. A/N: INACTIVE	C150	C143		PM: (9) [RULE 404, 2-7-1986]	A63.1, D322.1, D381.1, E102.1, H23.5, K67.2
BAGHOUSE, NO. 11, SHAKER, 2150 SQ.FT.; 171 A/N: 235081	C151	D142		PM: (9) [RULE 404, 2-7-1986]	A63.1, D322.1, D381.2, E102.1, H23.5, K67.2
MIXER, JAEGER BLENDER, 243 CU.FT. A/N: 461979	D138	C143		PM: (9) [RULE 405, 2-7-1986]	C1.4, D323.2, K48.1
CYCLONE A/N: 461979	C143	D138 D139 C150		PM: (9) [RULE 405, 2-7-1986]	D323.2
MIXER, JAEGER BLENDER, 243 CU.FT. A/N: 461979	D139	C143		PM: (9) [RULE 405, 2-7-1986]	C1.4, D323.2, K48.1
CONVEYOR, BELT A/N: 461979	D140	C149		PM: (9) [RULE 405, 2-7-1986]	C1.4, D323.2, K48.1
CONVEYOR, BELT A/N: 461979	D141	C149		PM: (9) [RULE 405, 2-7-1986]	C1.4, D323.2, K48.1
CONVEYOR, BELT, (INCLINE) A/N: 461979	D142	C151		PM: (9) [RULE 405, 2-7-1986]	C1.4, D323.2, K48.1
BIN, STATION, SCRAP A/N: 461979	D210	C149		PM: (9) [RULE 405, 2-7-1986]	D323.2
BIN, TILTER, SCRAP A/N: 461979	D211	C149		PM: (9) [RULE 405, 2-7-1986]	D323.2
Process 6: EXTERNAL COMBUSTION					

* (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 ARMSTRONG WORLD INDUSTRIES INC

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 6: EXTERNAL COMBUSTION					
BOILER, NATURAL GAS, TEMPELLA KEELER, MODEL CP, WITH FLUE GAS RECIRCULATION, 14.07 MMBTU/HR A/N: 179985	D156		NOX: LARGE SOURCE**	CO: 400 PPMV NATURAL GAS (5) [RULE 1146, 11-17-2000; RULE 1146, 9-5-2008]; CO: 2000 PPMV (5A) [RULE 407, 4-2-1982]; NOX: 30 PPMV NATURAL GAS (3) [RULE 2012, 5-6-2005]; NOX: 30 PPMV NATURAL GAS (4) [RULE 2005, 5-6-2005]; PM: 0.1 GRAINS/SCF (5) [RULE 409, 8-7-1981]	D328.1, E73.1
Process 8: R219 EXEMPT EQUIPMENT SUBJECT TO SOURCE-SPECIFIC RULES					
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, PORTABLE, ARCHITECTURAL COATINGS	E169			VOC: (9) [RULE 1113, 11-8-1996; RULE 1113, 7-13-2007; RULE 1171, 11-7-2003; RULE 1171, 5-1-2009]	K67.1
RULE 219 EXEMPT EQUIPMENT, AIR CONDITIONING UNITS	E170				H23.2
RULE 219 EXEMPT EQUIPMENT, REFRIGERANT RECOVERY AND/OR RECYCLING UNITS,, REFRIGERATION UNITS	E171				H23.2
RULE 219 EXEMPT EQUIPMENT, CLEANING EQUIPMENT, SMALL, UNHEATED, NON-CONVEYORIZED	E172			VOC: (9) [RULE 1171, 11-7-2003; RULE 1171, 5-1-2009]	H23.1
RULE 219 EXEMPT EQUIPMENT, LAMINATING EQUIPMENT, LOW USE OR EMISSIONS	E173			VOC: (9) [RULE 1168, 1-7-2005; RULE 1171, 11-7-2003; RULE 1171, 5-1-2009]	H23.4
RULE 219 EXEMPT EQUIPMENT, COATING EQUIPMENT, LOW USE OR EMISSIONS	E174			VOC: (9) [RULE 1145, 2-14-1997; RULE 1145, 12-3-2004; RULE 1171, 11-7-2003; RULE 1171, 5-1-2009]	H23.4

- * (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 ARMSTRONG WORLD INDUSTRIES INC

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 8: R219 EXEMPT EQUIPMENT SUBJECT TO SOURCE-SPECIFIC RULES					
RULE 219 EXEMPT EQUIPMENT, PRINTER, INKJET	E208			VOC: (9) [RULE 1171, 11-7-2003; RULE 1171, 5-1-2009]	H23.4, H23.6
RULE 219 EXEMPT EQUIPMENT, COOLING TOWERS	E209				H23.3

* (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
ARMSTRONG WORLD INDUSTRIES INC**

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
 ARMSTRONG WORLD INDUSTRIES INC
 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D1	1	1	0
D2	1	1	0
D3	1	1	0
C4	1	1	0
D6	1	1	0
D7	1	1	0
D11	2	1	0
D12	2	1	0
D13	2	1	0
D14	2	1	0
D15	2	1	0
D16	3	1	0
D17	3	1	0
D18	3	1	0
C19	3	1	0
D28	3	1	0
D29	3	1	0
C30	4	1	0
D31	4	1	0
C32	4	1	0
D33	4	1	0
C34	4	1	0
C35	4	1	0
C36	5	1	0
D37	5	2	0
D38	6	2	0
D39	6	2	0
D40	6	2	0
D41	6	2	0
D42	6	2	0
D43	6	2	0
D44	6	2	0
D45	6	2	0
D46	6	2	0
D47	6	2	0

**FACILITY PERMIT TO OPERATE
 ARMSTRONG WORLD INDUSTRIES INC
 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D48	15	3	0
D49	15	3	0
D50	15	3	0
D51	15	3	0
D52	15	3	0
D53	15	3	0
D54	16	3	0
D55	6	3	0
D56	7	3	0
D57	7	3	0
D58	7	3	0
D59	7	3	0
D60	7	3	0
D61	7	3	0
D62	7	3	0
D63	7	3	0
D64	7	3	0
D65	7	3	0
D66	7	3	0
D67	7	3	0
D68	8	3	0
D69	8	3	0
D72	8	3	0
D73	8	3	0
D74	8	3	0
D75	8	3	0
D76	8	3	0
D77	8	3	0
D78	8	3	0
D79	8	3	0
D80	8	3	0
D81	8	3	0
D82	8	3	0
C83	9	3	0
D84	9	3	0

**FACILITY PERMIT TO OPERATE
 ARMSTRONG WORLD INDUSTRIES INC
 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D85	9	3	0
D89	9	3	0
D90	9	3	0
D91	9	3	0
D92	9	3	0
C93	9	3	0
D94	9	3	0
D95	10	3	0
D96	10	3	0
D97	10	3	0
D99	10	3	0
D100	10	3	0
D101	10	3	0
D102	10	3	0
D103	10	3	0
D104	11	3	0
D105	11	3	0
D106	11	3	0
D107	11	3	0
D108	11	3	0
D109	11	3	0
D110	11	3	0
D111	11	3	0
D112	11	3	0
D113	11	3	0
D114	11	3	0
D115	12	3	0
D116	12	3	0
D117	12	3	0
D118	6	2	0
D119	12	3	0
D120	6	2	0
D121	12	3	0
D122	12	3	0
D123	12	3	0

**FACILITY PERMIT TO OPERATE
 ARMSTRONG WORLD INDUSTRIES INC
 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D124	12	3	0
D125	12	3	0
D126	12	3	0
D127	12	3	0
D128	12	3	0
D129	13	3	0
D130	13	3	0
C131	13	3	0
C132	13	3	0
C133	14	3	0
C135	14	3	0
C136	14	3	0
C137	15	3	0
D138	19	4	0
D139	19	4	0
D140	19	4	0
D141	19	4	0
D142	19	4	0
C143	19	4	0
D145	18	4	0
D146	18	4	0
D147	18	4	0
D148	18	4	0
C149	18	4	0
C150	19	4	0
C151	19	4	0
D156	20	6	0
D159	5	1	0
D161	16	3	0
D162	16	3	0
D163	16	3	0
D164	16	3	0
D165	16	3	0
D166	16	3	0
D168	6	2	0

**FACILITY PERMIT TO OPERATE
 ARMSTRONG WORLD INDUSTRIES INC
 SECTION D: DEVICE ID INDEX**

Device Index For Section D			
Device ID	Section D Page No.	Process	System
E169	20	8	0
E170	20	8	0
E171	20	8	0
E172	20	8	0
E173	20	8	0
E174	20	8	0
D175	5	1	0
D176	5	1	0
D177	5	1	0
D178	6	2	0
D179	16	3	0
D180	16	3	0
D181	16	3	0
D182	16	3	0
D183	16	3	0
D184	17	3	0
D185	17	3	0
D186	17	3	0
D187	17	3	0
D188	17	3	0
D189	17	3	0
D190	17	3	0
D192	17	3	0
D193	17	3	0
D194	4	1	0
D195	18	4	0
D196	17	3	0
D197	17	3	0
D198	17	3	0
D199	5	1	0
D200	5	1	0
D201	5	1	0
D202	5	1	0
C204	5	1	0
D205	18	3	0

**FACILITY PERMIT TO OPERATE
ARMSTRONG WORLD INDUSTRIES INC**

SECTION D: DEVICE ID INDEX

Device Index For Section D			
Device ID	Section D Page No.	Process	System
D206	18	3	0
D207	18	3	0
E208	21	8	0
E209	21	8	0
D210	19	4	0
D211	19	4	0
C212	2	1	0
D213	1	1	0
D214	2	1	0
D215	3	1	0
D216	3	1	0
D217	3	1	0
D218	3	1	0
D219	1	1	0

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

FACILITY CONDITIONS

F9.1 Except for open abrasive blasting operations, the operator shall not discharge into the atmosphere from any single source of emissions whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour which is:

(a) As dark or darker in shade as that designated No.1 on the Ringelmann Chart, as published by the United States Bureau of Mines; or

(b) Of such opacity as to obscure an observer's view to a degree equal to or greater than does smoke described in subparagraph (a) of this condition.

[RULE 401, 3-2-1984; RULE 401, 11-9-2001]

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 : 4]

DEVICE CONDITIONS

A. Emission Limits

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

CONTAMINANT	EMISSIONS LIMIT
Visible emissions	Less than or equal to 0 Percent Opacity

[RULE 1155, 12-4-2009]

[Devices subject to this condition : C4, D6, D7, D11, D12, D13, D14, D16, C19, C30, C32, C34, C35, C36, D54, C83, C93, C131, C132, C133, C135, C136, C137, C149, C150, C151, C204, C212, D214]

C. Throughput or Operating Parameter Limits

C1.1 The operator shall limit the material processed to no more than 150000 lbs in any one day.

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

[Devices subject to this condition : D6, D7, D11, D13, D14, D213, D214, D219]

C1.2 The operator shall limit the material processed to no more than 75000 lbs in any one day.

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

[Devices subject to this condition : D15, D16, D215, D216, D217, D218]

C1.3 The operator shall limit the material processed to no more than 30e+06 lb(s) in any one calendar month.

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

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 : D17, D18, D56, D57, D58, D59, D60, D61, D62, D63, D64, D65, D66, D67, D68, D69, D72, D73, D74, D75, D76, D77, D78, D79, D80, D81, D82, C83, D84, D85, D89, D90, D91, D92, D94, D95, D96, D97, D161, D162, D163, D164, D165, D166, D192, D193, D196, D197, D198]

C1.4 The operator shall limit the material processed to no more than 240 tons in any one day.

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

[Devices subject to this condition : D48, D49, D50, D51, D52, D53, D54, D55, D138, D139, D140, D141, D142]

C1.6 The operator shall limit the material processed to no more than 433 ton(s) in any one day.

This limit shall be based on the total combined limit for equipment D47 and D168.

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

[Devices subject to this condition : D47, D168]

C1.7 The operator shall limit the material processed to no more than 6e+06 lb(s) in any one month.

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

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : D99, D100, D101, D102, D103, D104, D105, D106, D107, D108, D109, D110, D111, D112, D113, D114, D115, D116, D117, D118, D119, D120, D121, D122, D123, D124, D125, D126, D127, D175, D176, D177, D199, D200, D205, D206, D207]

D. Monitoring/Testing Requirements

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

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

[Devices subject to this condition : C131, C132, C133, C204]

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 : C4, D6, D7, D11, D12, D13, D14, D16, C19, C30, C32, C34, C35, C36, D54, C83, C131, C132, C133, C135, C136, C137, C149, C150, C151, C204, C212, D214]

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

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 a semi-annual basis, at least, unless the equipment did not operate during the entire semi-annual period. The routine semi-annual inspection shall be conducted while the equipment is in operation and during daylight hours.

If any visible emissions (not including condensed water vapor) are detected 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 ARMSTRONG WORLD INDUSTRIES INC

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, D50, D51, D52, C93, D159, D194, D195,
D215, D216, D217, D218, D219]

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

D323.2 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 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 ARMSTRONG WORLD INDUSTRIES INC

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 : D2, D3, D15, D17, D18, D28, D29, D31, D33, D37, D38, D39, D40, D41, D42, D43, D44, D45, D46, D47, D48, D49, D53, D55, D56, D57, D58, D59, D60, D61, D62, D63, D64, D65, D66, D67, D68, D69, D72, D73, D74, D75, D76, D77, D78, D79, D80, D81, D82, D84, D85, D89, D90, D91, D92, D94, D95, D96, D97, D99, D100, D101, D102, D103, D104, D105, D106, D107, D108, D109, D110, D111, D112, D113, D114, D115, D116, D117, D118, D119, D120, D121, D122, D123, D124, D125, D126, D127, D128, D129, D130, D138, D139, D140, D141, D142, C143, D145, D146, D147, D148, D161, D162, D163, D164, D165, D166, D168, D175, D176, D177, D178, D179, D180, D181, D182, D183, D184, D185, D186, D187, D188, D189, D190, D192, D193, D196, D197, D198, D199, D200, D201, D202, D205, D206, D207, D210, D211, D213]

D328.1 The operator shall determine compliance with the CO emission limit(s) either: (a) conducting a source test at least once every five years using AQMD Method 100.1 or 10.1; or (b) conducting a test at least annually using a portable analyzer and AQMD-approved test method. The test shall be conducted when the equipment is operating under normal conditions to demonstrate compliance with Rule 1146 emission limit. The operator shall comply with all general testing, reporting, and recordkeeping requirements in Sections E and K of this permit.

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

[Devices subject to this condition : D156]

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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 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 : C4, D6, D7, D11, D12, D13, D14, D16, C35, C36, C83, C150, D214]

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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 a quarterly basis, at least, unless the equipment did not operate during the entire quarterly period. The routine quarterly inspection shall be conducted while the equipment is in operation and during daylight hours. If any visible emissions (not including condensed water vapor) are detected, the operator shall take corrective action(s) that eliminates the visible emissions within 24 hours and report the visible emissions as a potential deviation in accordance with the reporting requirements in Section K of this permit.

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

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

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

[Devices subject to this condition : C19, C30, C32, C34, D54, C131, C132, C133, C135, C136, C137, C149, C151, C204, C212]

E. Equipment Operation/Construction Requirements

E73.1 Notwithstanding the requirements of Section E conditions, the operator may, at his discretion, choose not to use flue gas recirculation if any of the following requirement(s) are met:

Exhaust temperature is below 200 Deg. F.

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

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 : D156]

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

**[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE
3004(a)(4)-Periodic Monitoring, 12-12-1997]**

[Devices subject to this condition : C4, C19, C30, C32, C34, C35, C36, C83, C131,
C132, C133, C135, C136, C137, C149, C150, C151, C204, C212]

E184.1 The operator shall thoroughly clean the filters in the filter vents immediately after each load of material is received.

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

[Devices subject to this condition : D6, D7, D11, D12, D13, D14, C19, D214]

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

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

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

Except for bag break-in period after installation of new filter media, a deviation shall be defined as when the pressure differential across the filters is less than 1" of water column or more than 6" of water column occurs during the normal operation of the equipment it serves. A bag break-in period shall not exceed 10 operating days.

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 filters between 1" and 6" of water column, and keep records of the duration and cause (including unknown cause, if applicable) of the deviation and the corrective actions taken.

All deviations shall be reported to the AQMD pursuant to the requirements specified in 40 CFR Part 64.9 and Condition Nos. 22 and 23 in Section K of this permit. The monitoring report shall include the total operating time of this equipment and the total accumulated duration of all deviations for each semi-annual reporting period specified in Condition No. 23 in Section K of this permit.

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

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

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

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

[RULE 1303(a)(1)-BACT, 5-10-1996; RULE 1303(a)(1)-BACT, 12-6-2002; RULE 3004(a)(4)-Periodic Monitoring, 12-12-1997; 40CFR Part 64, 10-22-1997]

[Devices subject to this condition : C131, C132, C133, C135, C136, C137]

H. Applicable Rules

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	1122

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

[Devices subject to this condition : E172]

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

Contaminant	Rule	Rule/Subpart
Refrigerants	District Rule	1415
Refrigerants	40CFR82, SUBPART	F

[RULE 1415, 10-14-1994; 40CFR 82 Subpart F, 5-14-1993]

[Devices subject to this condition : E170, E171]

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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

Contaminant	Rule	Rule/Subpart
Chromium, Hexavalent	District Rule	1404

[RULE 1404, 4-6-1990]

[Devices subject to this condition : E209]

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

Contaminant	Rule	Rule/Subpart
VOC	District Rule	109

[RULE 109, 5-2-2003]

[Devices subject to this condition : E173, E174, E208]

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

Contaminant	Rule	Rule/Subpart
PM	District Rule	1155

[RULE 1155, 12-4-2009]

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : C4, D6, D7, D12, D13, D14, D16, C19, C30, C32, C34, C35, C36, D54, C83, C93, C131, C132, C133, C135, C136, C137, C149, C150, C151, C204, C212, D214]

H23.6 This equipment is subject to the applicable requirements of the following rules or regulations:

Contaminant	Rule	Rule/Subpart
VOC	District Rule	442

[RULE 442, 12-15-2000]

[Devices subject to this condition : E208]

K. Record Keeping/Reporting

K48.1 The operator shall maintain records in a manner approved by the District, to demonstrate compliance with the following condition number(s):

Condition Number C 1- 1

Condition Number C 1- 2

Condition Number C 1- 3

Condition Number C 1- 4

Condition Number C 1- 6

Condition Number C 1- 7

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

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

[Devices subject to this condition : D6, D7, D11, D12, D13, D14, D15, D16, D17, D18, D47, D48, D49, D50, D51, D52, D53, D54, D55, D56, D57, D58, D59, D60, D61, D62, D63, D64, D65, D66, D67, D68, D69, D72, D73, D74, D75, D76, D77, D79, D80, D81, D82, C83, D84, D85, D89, D90, D91, D92, D94, D95, D96, D97, D99, D100, D101, D102, D103, D104, D105, D106, D107, D108, D109, D110, D111, D112, D113, D114, D115, D116, D117, D118, D119, D120, D121, D122, D123, D124, D125, D126, D127, D138, D139, D140, D141, D142, D161, D162, D163, D164, D165, D166, D168, D175, D176, D177, D192, D193, D196, D197, D198, D199, D200, D205, D206, D207, D213, D214, D215, D216, D217, D218, D219]

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

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

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

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

[Devices subject to this condition : E169]

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

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

SECTION D: FACILITY DESCRIPTION AND EQUIPMENT SPECIFIC CONDITIONS

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

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 : C4, D6, D7, D11, D12, D13, D14, D16, C19, C30, C32, C34, C35, C36, D54, C83, C131, C132, C133, C135, C136, C137, C149, C150, C151, C204, C212, D214]

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

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 ARMSTRONG WORLD INDUSTRIES INC

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 ARMSTRONG WORLD INDUSTRIES INC

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 compounds 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 of 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 Regulations, 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 ARMSTRONG WORLD INDUSTRIES INC

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 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.

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

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 ARMSTRONG WORLD INDUSTRIES INC

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. NO_x Monitoring Conditions

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

Not Applicable

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

1. Install, maintain, and operate a totalizing fuel meter or any device approved by the Executive Officer to measure quarterly fuel usage or other applicable variables specified in Rule 2012, Table 2012-1, and Rule 2012, Appendix A, Table 4-A. The sharing of totalizing fuel meters may be allowed by the Executive Officer if the fuel meter serves process units which have the same emission factor or emission rate. The sharing of totalizing meter shall not be allowed for process units which are required to comply with an annual heat input limit. [2012]

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

SECTION F: RECLAIM MONITORING AND SOURCE TESTING REQUIREMENTS

II. NO_x Source Testing and Tune-up conditions

1. The operator shall conduct all required NO_x source testing in compliance with an AQMD-approved source test protocol. [2012]
2. The operator shall, as applicable, conduct source tests for every large NO_x source no later than December 31, 1996 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 ARMSTRONG WORLD INDUSTRIES INC

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 ARMSTRONG WORLD INDUSTRIES INC

SECTION G: RECORDKEEPING AND REPORTING REQUIREMENTS FOR RECLAIM SOURCES

B. The Operator of a NO_x 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 NO_x mass emissions from each large NO_x 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 NO_x Process Unit, as defined in Rule 2012, shall:

1. Electronically report the calculated quarterly NO_x emissions for each NO_x process unit. The Operator shall comply with this requirement within 12 months of the date of entry to the RECLAIM Program. [2012]

**FACILITY PERMIT TO OPERATE
ARMSTRONG WORLD INDUSTRIES INC**

SECTION H: PERMIT TO CONSTRUCT AND TEMPORARY PERMIT TO OPERATE

NONE

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

SECTION I: PLANS AND SCHEDULES

This section lists all plans approved by AQMD for the purposes of meeting the requirements of applicable AQMD rules specified below. The operator shall comply with all conditions specified in the approval of these plans, with the following exceptions:

- a. The operator does not have to comply with NO_x or SO_x emission limits from rules identified in Table 1 or Table 2 of Rule 2001(j) which become effective after December 31, 1993.
- b. The operator does not have to comply with NO_x or SO_x emission limits from rules identified in Table 1 or Table 2 of Rule 2001(j) after the facility has received final certification of all monitoring and reporting requirements specified in Section F and Section G.

Documents pertaining to the plan applications listed below are available for public review at AQMD Headquarters. Any changes to plan applications will require permit modification in accordance with Title V permit revision procedures.

List of approved plans:

Application	Rule
373606	1415

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.

**FACILITY PERMIT TO OPERATE
ARMSTRONG WORLD INDUSTRIES INC**

SECTION J: AIR TOXICS

NOT APPLICABLE

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

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 ARMSTRONG WORLD INDUSTRIES INC

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 ARMSTRONG WORLD INDUSTRIES INC

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 ARMSTRONG WORLD INDUSTRIES INC

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 ARMSTRONG WORLD INDUSTRIES INC

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 ARMSTRONG WORLD INDUSTRIES INC

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 ARMSTRONG WORLD INDUSTRIES INC

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 ARMSTRONG WORLD INDUSTRIES INC

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 ARMSTRONG WORLD INDUSTRIES INC

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 109	5-2-2003	Federally enforceable
RULE 1113	11-8-1996	Federally enforceable
RULE 1113	7-13-2007	Non federally enforceable
RULE 1122	10-1-2004	Federally enforceable
RULE 1122	5-1-2009	Non federally enforceable
RULE 1145	12-3-2004	Non federally enforceable
RULE 1145	2-14-1997	Federally enforceable
RULE 1146	11-17-2000	Federally enforceable
RULE 1146	9-5-2008	Non federally enforceable
RULE 1155	12-4-2009	Non federally enforceable
RULE 1168	1-7-2005	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 1404	4-6-1990	Non federally enforceable
RULE 1415	10-14-1994	Non federally enforceable
RULE 2005	5-6-2005	Federally enforceable
RULE 2012	5-6-2005	Federally enforceable

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

SECTION K: TITLE V Administration

RULE SOURCE	Adopted/Amended Date	FEDERAL Enforceability
RULE 204	10-8-1993	Federally enforceable
RULE 217	1-5-1990	Federally enforceable
RULE 219	6-1-2007	Non federally enforceable
RULE 219	9-4-1981	Federally enforceable
RULE 3002	11-14-1997	Federally enforceable
RULE 3003	11-14-1997	Federally enforceable
RULE 3003	3-16-2001	Non federally enforceable
RULE 3004	12-12-1997	Federally enforceable
RULE 3004(a)(4)-Periodic Monitoring	12-12-1997	Federally enforceable
RULE 3005	11-14-1997	Federally enforceable
RULE 3005	3-16-2001	Non federally enforceable
RULE 3007	10-8-1993	Federally enforceable
RULE 304	6-5-2009	Non federally enforceable
RULE 401	11-9-2001	Non federally enforceable
RULE 401	3-2-1984	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 442	12-15-2000	Federally enforceable
RULE 701	6-13-1997	Federally enforceable
40CFR 82 Subpart F	5-14-1993	Federally enforceable
40CFR Part 64	10-22-1997	Federally enforceable

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

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

1. INTERNAL COMBUSTION ENGINE, NATURAL GAS
2. INTERNAL COMBUSTION ENGINES, WELDING, GASOLINE
3. STEAM CLEANER, FUEL OIL
4. SPACE HEATERS, NATURAL GAS

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

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 ARMSTRONG WORLD INDUSTRIES INC

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 ARMSTRONG WORLD INDUSTRIES INC

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 07-13-2007]

- (1) Except as provided in paragraphs (c)(2), (c)(3), (c)(4), and specified coatings averaged under (c)(6), no person shall supply, sell, offer for sale, manufacture, blend, or repackage any architectural coating for use in the District 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, and no person shall apply or solicit the application of any architectural coating within the District that exceeds 250 grams of VOC per liter of coating as calculated in this paragraph.
- (2) Except as provided in paragraphs (c)(3), (c)(4), and designated coatings averaged under (c)(6), no person shall supply, sell, offer for sale, 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, and no person shall apply or solicit the application of any architectural coating within the District that exceeds the VOC limit as specified in this paragraph. No person shall apply or solicit the application within the District of any industrial maintenance coatings, except anti-graffiti coatings, for residential use or for use in areas such as office space and meeting rooms of industrial, commercial or institutional facilities not exposed to such extreme environmental conditions described in the definition of industrial maintenance coatings; or of any rust-preventative coating for industrial use, unless such a rust preventative coating complies with the Industrial Maintenance Coating VOC limit specified in the Table of Standards.

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 07-13-2007] TABLE OF STANDARDS VOC LIMITS

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

COATING CATEGORY	Ceiling Limit*	Current Limit	Effective Date					
			1/1/03	1/1/04	1/1/05	7/1/06	7/1/07	7/1/08
Bond Breakers	350							
Clear Wood Finishes	350					275		
Varnish	350					275		
Sanding Sealers	350					275		
Lacquer	680	550			275			
Clear Brushing Lacquer	680				275			
Concrete-Curing Compounds	350						100	
Concrete-Curing Compounds For Roadways and Bridges**	350							
Dry-Fog Coatings	400						150	
Fire-Proofing Exterior Coatings	450	350						
Fire-Retardant Coatings***								
Clear	650							
Pigmented	350							
Flats	250	100						50
Floor Coatings	420		100			50		
Graphic Arts (Sign) Coatings	500							
Industrial Maintenance (IM) Coatings	420			250		100		
High Temperature IM Coatings			420					
Zinc-Rich IM Primers	420		340			100		
Japans/Faux Finishing Coatings	700	350						
Magnesite Cement Coatings	600	450						
Mastic Coatings	300							
Metallic Pigmented Coatings	500							
Multi-Color Coatings	420	250						
Nonflat Coatings	250		150			50		

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

APPENDIX B: RULE EMISSION LIMITS [RULE 1113 07-13-2007]

COATING CATEGORY	Ceiling Limit*	Current Limit	Effective Date					
			1/1/03	1/1/04	1/1/05	7/1/06	7/1/07	7/1/08
Nonflat High Gloss	250		150				50	
Pigmented Lacquer	680	550			275			
Pre-Treatment Wash Primers	780		420					
Primers, Sealers, and Undercoaters	350		200			100		
Quick-Dry Enamels	400		250			150	50	
Quick-Dry Primers, Sealers, and Undercoaters	350		200			100		
Recycled Coatings			250					
Roof Coatings	300		250		50			
Roof Coatings, Aluminum	500				100			
Roof Primers, Bituminous	350		350					
Rust Preventative Coatings	420		400			100		
Shellac								
Clear	730							
Pigmented	550							
Specialty Primers	350					250	100	
Stains	350		250				100	
Stains, Interior	250							
Swimming Pool Coatings								
Repair	650		340					
Other	340							
Traffic Coatings	250	150					100	
Waterproofing Sealers	400		250			100		
Waterproofing	400					100		
Concrete/Masonry Sealers								
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.

** Does not include compounds used for curbs and gutters, sidewalks, islands, driveways and other miscellaneous concrete areas.

*** The Fire-Retardant Coating category will be eliminated on January 1, 2007 and subsumed by the coating category for which they are formulated.

**FACILITY PERMIT TO OPERATE
ARMSTRONG WORLD INDUSTRIES INC**

**APPENDIX B: RULE EMISSION LIMITS
[RULE 1113 07-13-2007]**

**TABLE OF STANDARDS (cont.)
VOC LIMITS**

Grams of VOC Per Liter of Material

COATING	Limit
Low-Solids Coating	120

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

APPENDIX B: RULE EMISSION LIMITS [RULE 1145 02-14-1997]

Except as otherwise provided in Rule 1145, the operator shall not apply on plastics, glass, or rubber any coatings which are applied with a VOC content in excess of the limits specified below:

COATING

	VOC LIMITS			
	<u>Less Water and Less Exempt</u>			
	<u>Compounds</u>			
	<u>Current</u>		<u>On and After 1-1-98</u>	
	<u>g/L</u>	<u>lbs/gal</u>	<u>g/L</u>	<u>lbs/gal</u>
General Coatings				
One-component	275	2.3	275	2.3
Two-component	420	3.5	420	3.5
Military Spec. Coating				
One-component	340	2.8	340	2.8
Two-component	420	3.5	420	3.5
Multi-Colored Coatings	685	5.7	685	5.7
Mold Seal Coatings	750	6.3	750	6.3
Vacuum Metalizing Coatings	800	6.7	800	6.7
Mirror Backing				
Curtain Coated	500	4.2	500	4.2
Roll Coated	430	3.6	430	3.6
Optical Coatings	800	6.7	800	6.7
Electric Dissipating Coatings and Shock-				
Free Coatings	800	6.7	360	3.0
Metallic Coatings	420	3.5	420	3.5

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

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 ARMSTRONG WORLD INDUSTRIES INC

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 ARMSTRONG WORLD INDUSTRIES INC

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 ARMSTRONG WORLD INDUSTRIES INC

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 ARMSTRONG WORLD INDUSTRIES INC

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 ARMSTRONG WORLD INDUSTRIES INC

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 ARMSTRONG WORLD INDUSTRIES INC

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 ARMSTRONG WORLD INDUSTRIES INC

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 ARMSTRONG WORLD INDUSTRIES INC

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 ARMSTRONG WORLD INDUSTRIES INC

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 ARMSTRONG WORLD INDUSTRIES INC

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
Cubic meters Per Minute	Cubic feet Per Minute			Cubic meters Per Minute	Cubic feet Per Minute		
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

FACILITY PERMIT TO OPERATE ARMSTRONG WORLD INDUSTRIES INC

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

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
Cubic meters Per Minute	Cubic feet Per Minute			Cubic meters Per Minute	Cubic feet Per Minute		
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 ARMSTRONG WORLD INDUSTRIES INC

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

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
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 ARMSTRONG WORLD INDUSTRIES INC

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 ARMSTRONG WORLD INDUSTRIES INC

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