

Part 70 Operating Permit Amendment

Permit Amendment No.: **3296-021-0030-V-01-1** Effective Date: **November 22, 2005**

Facility Name: **Armstrong World Industries**

Facility Address 4520 Broadway
Macon, Georgia 31213, (Bibb County)

Mailing Address: P. O. Box 4288
Macon, Georgia 31206

Parent/Holding Company: Armstrong World Industries

Facility AIRS Number: 04-13-021-00030

In accordance with the provisions of the Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq and the Georgia Rules for Air Quality Control, Chapter 391-3-1, adopted pursuant to and in effect under the Act, the Permittee described above is issued an amendment to the Part 70 Operating Permit for:

- (1) use of new emission factors for lin-o-flames and dryers, (2) replacement of two bin vent baghouses (Baghouses CD20 and CD21), (3) removal of baghouse CD22 and 4BPL Equalizer from service, (4) lower allowable PM emissions to 1.6 lbs/hr from 2.5 lbs/hr for Paint Booths K055, K040 and K010, and (5) correction of some typographical error, revise and update Title V permit.

This Permit Amendment is conditioned upon compliance with all provisions of The Georgia Air Quality Act, O.C.G.A. Section 12-9-1, et seq, the Rules, Chapter 391-3-1, adopted and in effect under that Act, or any other condition of this Permit Amendment and Permit No. 3296-021-0030-V-01-0. Unless modified or revoked, this Permit Amendment expires simultaneously with Part 70 Permit No. 3296-021-0030-V-01-0.

This Permit Amendment may be subject to revocation, suspension, modification or amendment by the Director for cause including evidence of noncompliance with any of the above; or for any misrepresentation made in Application No. TV-15643 dated September 24, 2004; any other applications upon which this Permit Amendment or Permit No. 3296-021-0030-V-01-0 are based; supporting data entered therein or attached thereto; or any subsequent submittal or supporting data; or for any alterations affecting the emissions from this source.

This Permit Amendment is further subject to and conditioned upon the terms, conditions, limitations, standards, or schedules contained in or specified on the attached 6 pages, which pages are a part of this Permit Amendment, and which hereby become part of Permit No. 3296-021-0030-V-01-0.

Director
Environmental Protection Division

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PART 3.0 REQUIREMENTS FOR EMISSION UNITS

Note: Except where an applicable requirement specifically states otherwise, the averaging times of any of the Emissions Limitations or Standards included in this permit are tied to or based on the run time(s) specified for the applicable reference test method(s) or procedures required for demonstrating compliance.

3.1.1 Revised Emission Units

Emission Units		Specific Limitations/Requirements		Air Pollution Control Devices		
ID No.	Description	Applicable Requirements/Standards	Corresponding Permit Conditions	Control ID No.	Stack ID No.	Description
Building 2C Area						
K040	MPIF Line Intermediate Paint Booth	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1, 3.2.3, 3.4.1, 3.4.2, 5.2.1, 5.2.4, 5.2.9, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD39	088S	Water Curtain 39
K015	MPIF Line Prime Lin-O-Flame	391-3-1-.02(2)(b) 391-3-1-.02(2)(e) 391-3-1-.02(2)(g)	3.2.3, 3.4.1, 3.4.2, 3.4.3, 5.2.10	NA	084S	None
K020	MPIF Line Prime Dryer	391-3-1-.02(2)(b) 391-3-1-.02(2)(e) 391-3-1-.02(2)(g)	3.2.3, 3.4.1, 3.4.2, 3.4.3, 5.2.10	NA	085S	None
K025	MPIF Line Prime Cooler	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.3, 3.4.1, 3.4.2, 5.2.10	NA	086S	None
K010	MPIF Line Prime Paint Booth	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1, 3.2.3, 3.4.1, 3.4.2, 5.2.1, 5.2.4, 5.2.9, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD40	083S	Water Curtain 40
K045	MPIF Line Intermediate Lin-O-Flame	391-3-1-.02(2)(b) 391-3-1-.02(2)(e) 391-3-1-.02(2)(g)	3.2.3, 3.4.1, 3.4.2, 3.4.3, 5.2.10	NA	089S	None
K050	MPIF Line Intermediate Dryer	391-3-1-.02(2)(b) 391-3-1-.02(2)(e) 391-3-1-.02(2)(g)	3.2.3, 3.4.1, 3.4.2, 3.4.3, 5.2.10	NA	090S	None
K055	MPIF Line Finish Paint Booth	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1, 3.2.3, 3.4.1, 3.4.2, 5.2.1, 5.2.4, 5.2.9, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD38	092S	Water Curtain 38
K060	MPIF Line Finish Dryer	391-3-1-.02(2)(b) 391-3-1-.02(2)(e) 391-3-1-.02(2)(g)	3.2.3, 3.4.1, 3.4.2, 3.4.3, 5.2.10	NA	093S	None
K065	MPIF Line Finish Cooler	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.3, 3.4.1, 3.4.2, 5.2.10	NA	094S 095S 096S	None
K030 K035	MPIF Line Stacker Feeder MPIF Line Equalizer	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1, 3.2.3, 3.4.1, 3.4.2, 3.5.1, 5.2.1, 5.2.6, 5.2.7, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD23	109S	Baghouse 23
Building 2A Area						
H015	WPIF Line (#1 Cush) Finish Paint Booth	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.3, 3.4.1, 3.4.2, 5.2.1, 5.2.5, 5.2.8, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD34	020S	Filter 34

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Emission Units		Specific Limitations/Requirements		Air Pollution Control Devices		
ID No.	Description	Applicable Requirements/Standards	Corresponding Permit Conditions	Control ID No.	Stack ID No.	Description
I035	WITL Line (2&3 Cush) 1 Finish Paint Booth	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1, 3.2.3, 3.4.1, 3.4.2, 5.2.1, 5.2.4, 5.2.9, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD35	021S	Water Curtain 35
I045	WITL Line (2&3 Cush) 2 Finish Paint Booth	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.3, 3.4.1, 3.4.2, 5.2.1, 5.2.5, 5.2.8, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD36	022S	Filter 36
J015	Plank Line (4 Cush) Paint Booth	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.4.1, 3.4.2, 5.2.1, 5.2.5, 5.2.8, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD37	023S	Filter 37
E020	3BPL (WITL) Prime Paint Booth	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1, 3.2.3, 3.4.1, 3.4.2, 5.2.1, 5.2.5, 5.2.8, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD31	059S	Filter 31
E015	3BPL (WITL) Prime Lin-O-Flame	391-3-1-.02(2)(b) 391-3-1-.02(2)(e) 391-3-1-.02(2)(g)	3.2.3, 3.4.1, 3.4.2, 3.4.3, 5.2.10	NA	065S	None
E035	3BPL (WITL) Dryer	391-3-1-.02(2)(b) 391-3-1-.02(2)(e) 391-3-1-.02(2)(g)	3.2.3, 3.4.1, 3.4.2, 3.4.3, 5.2.10	NA	064S	None
G030	WPIF Line (2BPL) Prime Lin-O-Flame	391-3-1-.02(2)(b) 391-3-1-.02(2)(e) 391-3-1-.02(2)(g)	3.2.3, 3.4.1, 3.4.2, 3.4.3, 4.2.2, 5.2.10	NA	119S	None
G040	WPIF Line (2BPL) Prime Dryer	391-3-1-.02(2)(b) 391-3-1-.02(2)(e) 391-3-1-.02(2)(g)	3.2.3, 3.4.1, 3.4.2, 3.4.3, 4.2.2, 5.2.10	NA	121S	None
P005, P010, P015	5Tenoner (TIF & STIF) Trimmer, 1 Pass 5Tenoner (TIF & STIF) Trimmer, 2 Pass 5Tenoner (TIF & STIF) Tenoner	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1, 3.4.1, 3.4.2, 3.5.1, 5.2.1, 5.2.6, 5.2.7, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD57	116S	Baghouse 57
Q005, Q010, Q015	6 Tenoner (STIF) Trimmer 1 Pass 6 Tenoner (STIF) Trimmer, 2 Pass 6 Tenoner (STIF) Tenoner	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.4.1, 3.4.2, 3.5.1, 5.2.1, 5.2.6, 5.2.7, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD64	136S	Baghouse 64
N005, N015, N020, N030	2SP (STIF) Feeder 2SP (STIF) Fissure Machine 2SP (STIF) Press (4X4) 2SP (STIF) Stacker	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1, 3.4.1, 3.4.2, 3.5.1, 5.2.1, 5.2.6, 5.2.7, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD67	139S	Baghouse 67
Building 3 Area						
F055	4BPL (STIF) Intermediate Paint Booth	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1, 3.2.3, 3.4.1, 3.4.2, 5.2.1, 5.2.4, 5.2.9, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD33	025S	Water Curtain 33
F060	4BPL (STIF) Intermediate Dryer	391-3-1-.02(2)(b) 391-3-1-.02(2)(e) 391-3-1-.02(2)(g)	3.2.3, 3.4.1, 3.4.2, 3.4.3, 5.3.1, 5.2.10	NA	027S	None
R010	TIF Line Intermediate Paint Booth	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1, 3.2.3, 3.4.1, 3.4.2, 5.2.1, 5.2.5, 5.2.8, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD42	097S	Filter 42
R020	TIF Line Finish Paint Booth	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1, 3.2.3, 3.4.1, 3.4.2, 5.2.1, 5.2.5, 5.2.8, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD43	099S	Filter 43

Title V Permit Amendment

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Emission Units		Specific Limitations/Requirements		Air Pollution Control Devices		
ID No.	Description	Applicable Requirements/Standards	Corresponding Permit Conditions	Control ID No.	Stack ID No.	Description
F020	4BPL (STIF) Prime Paint Booth	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1, 3.2.3, 3.4.1, 3.4.2, 5.2.1, 5.2.4, 5.2.9, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD32	129S	Water Curtain 32
F015	4BPL (STIF) Prime Lin-O-Flame	391-3-1-.02(2)(b) 391-3-1-.02(2)(e) 391-3-1-.02(2)(g)	3.2.3, 3.4.1, 3.4.2, 3.4.3, 5.3.1, 5.2.10	NA	130S	None
T005	STIF Line Intermediate Paint Booth	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1, 3.2.3, 3.4.1, 3.4.2, 5.2.1, 5.2.4, 5.2.9, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD62	131S	Water Curtain 62
T015	STIF Line Finish Paint Booth	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1, 3.2.3, 3.4.1, 3.4.2, 5.2.1, 5.2.4, 5.2.9, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD63	133S	Water Curtain 63
G035	WPIF Line (2 BPL) Prime Paint Booth	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1, 3.2.3, 3.4.1, 3.4.2, 5.2.1, 5.2.4, 5.2.9, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD60	060S	Water Curtain 60
G060	WPIF Line (2 BPL) Intermediate Paint Booth	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1, 3.2.3, 3.4.1, 3.4.2, 5.2.1, 5.2.4, 5.2.9, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD61	061S	Air Filter 61
G065	WPIF Line (2BPL) Intermediate Lin-O-Flame	391-3-1-.02(2)(b) 391-3-1-.02(2)(e) 391-3-1-.02(2)(g)	3.2.3, 3.4.1, 3.4.2, 3.4.3, 5.3.1, 5.2.10	NA	113S	None
G070	WPIF Line (2BPL) Intermediate Dryer	391-3-1-.02(2)(b) 391-3-1-.02(2)(e) 391-3-1-.02(2)(g)	3.2.3, 3.4.1, 3.4.2, 3.4.3, 5.3.1, 5.2.10	NA	123S	None
F040	4BPL (STIF) Prime Dryer	391-3-1-.02(2)(b) 391-3-1-.02(2)(e) 391-3-1-.02(2)(g)	3.2.3, 3.4.1, 3.4.2, 3.4.3, 5.3.1, 5.2.10	NA	127S	None
Buildings 2, 2D, 4, and 22 Area						
L020	MITL Line Paint Booth	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1, 3.2.3, 3.4.1, 3.4.2, 5.2.1, 5.2.4, 5.2.9, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD41	102S	Water Curtain 41
M010, M015	Paint Mixing Tank Paint Mixing Kettle	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.4.1, 3.4.2, 5.2.1, 5.2.2, 5.2.3, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD02V	S002	Scrubber 2V
K005	MPIF Line Feeder	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1, 3.2.3, 3.4.1, 3.4.2, 5.2.1, 5.2.2, 5.2.3, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD03	S003	Scrubber 3
E005, E040, I005, I020	3 BPL (WITL) Feeder 3 BPL (WITL) Trimmer WITL Line 3 Trimmer, 1 Pass WITL Line 4 Trimmer, 1 Pass	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1, 3.2.3, 3.4.1, 3.4.2, 5.2.1, 5.2.2, 5.2.3, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD04	004S	Scrubber 4
O005, O015, O020, O030	3 SP (MPIF) Feeder 3 SP (MPIF) Fissure Machine 3 SP (MPIF) Big Bertha Press 3 SP (MPIF) Stacker	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1, 3.4.1, 3.4.2, 5.2.1, 5.2.2, 5.2.3, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD10	010S	Scrubber 10
L005, L010, L035	MITL Line Trimmer MITL Line Dust Hood MITL Line Tenoner	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.3, 3.4.1, 3.4.2, 5.2.1, 5.2.2, 5.2.3, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD16	016S	Scrubber 16

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Emission Units		Specific Limitations/Requirements		Air Pollution Control Devices		
ID No.	Description	Applicable Requirements/Standards	Corresponding Permit Conditions	Control ID No.	Stack ID No.	Description
C015, C020, C025	2BDM Dry Saw 2BDM Stacker 2BDM Sample Saw	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.4.1, 3.4.2, 3.5.1, 5.2.1, 5.2.6, 5.2.7, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD66	138S	Baghouse 66
D015, D020, D025	3BDM Dry Saw 3BDM Stacker 3BDM Sample Saw	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.4.1, 3.5.1, 5.2.1, 5.2.6, 5.2.7, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD65	137S	Baghouse 65
Buildings 4A, & 21 Area						
C010	2 BDM Dryer	391-3-1-.02(2)(b) 391-3-1-.02(2)(e) 391-3-1-.02(2)(g)	3.2.3, 3.4.1, 3.4.2, 3.4.3, 5.2.6, 5.3.1, 6.1.4, 6.1.7, 6.1.10	NA	031S 032S 033S 034S 035S 036S	None
E010, F010, G010, N010, O010	3BPL (WITL) Sander 4BPL (STIF) Sander WPIF Line (2BPL) Sander 2SP (STIF) Sander 3SP (MPIF) Sander	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1, 3.2.3, 3.4.1, 3.4.2, 3.5.1, 5.2.1, 5.2.6, 5.2.7, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD53	110S	Baghouse 53
S005	Dust Reuse Silo	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1, 3.4.1, 3.4.2, 3.5.1, 5.2.6, 5.3.1	CD54	111S	Baghouse 54
F005, F025, F080, G005 H010	4BPL (STIF) Feeder 4BPL (STIF) Grit Vacuum 4BPL (STIF) Stacker WPIF Line (2BPL) Feeder WPIF Line (#1 Cush) Equalizer	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1, 3.2.3, 3.4.1, 3.4.2, 3.5.1, 5.2.1, 5.2.6, 5.2.7, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD55	114S	Baghouse 55
I010, I015, I025, I030 J005 J010	WITL Line 3 Trimmer, 2 Pass WITL Line 3 Tenoner WITL Line 4 Trimmer, 2 Pass WITL Line 4 Tenoner Plank Line Trimmer Plank Line Tenoner	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.3, 3.4.1, 3.4.2, 3.5.1, 5.2.1, 5.2.6, 5.2.7, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD56	115S	Baghouse 56
Building 20 Area						
C005	2BDM Bug Boiler	391-3-1-.02(2)(d) 391-3-1-.02(2)(g) 40 CFR 60 Subpart Dc 40 CFR 63.50-63.56	3.4.3, 3.4.4, 3.4.5, 5.2.10, 5.2.11, 5.3.1, 6.2.2, 6.2.3	NA	140S	None
D010	3 BDM Dryer	391-3-1-.02(2)(b) 391-3-1-.02(2)(e) 391-3-1-.02(2)(g)	3.2.3, 3.4.1, 3.4.2, 3.4.3, 5.2.6, 5.3.1, 6.1.4, 6.1.7, 6.1.10	NA	028S 029S, 030S	None
A010, A015	#1 Expander #2 Expander	391-3-1-.02(2)(b) 391-3-1-.02(2)(e) 391-3-1-.02(2)(g)	3.4.1, 3.4.2, 3.4.3, 4.2.1, 5.2.1, 5.2.2, 5.2.3, 5.3.1, 6.1.4, 6.1.7, 6.1.10, 6.2.1	CD17 CD47 CD48	017S	Scrubber 17 Cyclone 47 Cyclone 48
A025	#4 Expander	391-3-1-.02(2)(b) 391-3-1-.02(2)(e) 391-3-1-.02(2)(g)	3.4.1, 3.4.2, 3.4.3, 4.2.1, 5.2.1, 5.2.2, 5.2.3, 5.3.1, 6.1.4, 6.1.7, 6.1.10, 6.2.1	CD18 CD49	049S	Scrubber 18 Cyclone 49
A030	#5 Expander	391-3-1-.02(2)(b) 391-3-1-.02(2)(e) 391-3-1-.02(2)(g) 40 CFR 52.21	3.2.2, 3.4.1, 3.4.2, 3.4.3, 4.2.1, 5.2.1, 5.2.2, 5.2.3, 5.3.1, 6.1.4, 6.1.7, 6.1.10, 6.2.1	CD19 CD50	069S	Scrubber 19 Cyclone 50

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Emission Units		Specific Limitations/Requirements		Air Pollution Control Devices		
ID No.	Description	Applicable Requirements/Standards	Corresponding Permit Conditions	Control ID No.	Stack ID. No.	Description
A020	#3 Expander	391-3-1-.02(2)(b) 391-3-1-.02(2)(e) 391-3-1-.02(2)(g) 40 CFR 60 Subpart UUU	3.2.1, 3.3.1, 3.4.1, 3.4.2, 3.4.3, 5.2.1, 5.2.2, 5.2.3, 5.3.1, 6.1.4, 6.1.7, 6.1.10	CD58 CD59	118S	Cyclone 58 Scrubber 59
A005	Perlite Silo	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.4.1, 3.4.2, 3.5.1, 5.2.6, 5.3.1	None	None	None
Control Building Area						
B005	Starch Silo	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1, 3.4.1, 3.4.2, 3.5.1, 5.2.6, 5.3.1	CD 20	055S	Baghouse 20
B010	Clay Silo	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	3.2.1, 3.4.1, 3.4.2, 3.5.1, 5.2.6, 5.3.1	CD21	057S	Baghouse 21

* Generally applicable requirements contained in this permit may also apply to emission units listed above.

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3.2 Equipment Emission Caps and Operating Limits

3.2.1 The Permittee shall not cause, let, permit, suffer, or allow particulate matter emission rates and particulate matter concentrations to exceed the stack PM limits for emission units as listed in Table 3.2.1. The limits are in addition to any other applicable limitation.

[40 CFR 52.21, avoidance]

Table 3.2.1

Source Code(s)	Emission Units	Control Device (Source Code)	Stack ID No. (S)	Stack PM Limit
B005	Starch Silo	Baghouse (CD20)	055S	0.020 grains/dscf
B010	Clay Silo	Baghouse (CD21)	057S	0.020 grains/dscf
K030	MPIF Line Stacker/Feeder	Baghouse (CD23)	109S	3.5 lb/hr
K035	MPIF Line Equalizer			
N010	2SP (STIF) Sander	Baghouse (CD53)	110S*	0.0080 grains/dscf
O010	3SP (MPIF) Sander			
S005	Dust Reuse Silo	Baghouse (CD54)	111S	0.020 grains/dscf
F025	#4 BPL (STIF) Grit Vacuum	Baghouse (CD55)	114S	0.010 grains/dscf
P005	5 Tenoner (TIF & STIF) Trimmer, 1 Pass	Baghouse (CD57)	116S	0.010 grains/dscf
D020	3BDM Stacker	Baghouse (CD65)	137S	1.3 lb/hr
N005	2SP (STIF) Feeder	Baghouse (CD67)	139S	0.0080 grains/dscf
N015	2SP (STIF) Fissure Machine			
N020	2SP (STIF) Press 4X4			
N030	2SP (STIF) Stacker			
K005	MPIF Line Feeder	Scrubber (CD03)	003S	3.0 lb/hr
I005	WITL Line 3 Trimmer 1 Pass	Scrubber (CD04)	004S	6.5 lb/hr
I020	WITL Line 4 Trimmer 1 Pass			
O005	3SP (MPIF) Feeder	Scrubber (CD10)	010S	4.5 lb/hr & 0.018 grains/dscf
O015	3SP (MPIF) Fissure Machine			
O020	3SP (MPIF) Press (Big Bertha)			
O030	3SP (MPIF) Stacker			
A020	3 Expander	Cyclone (CD58) & Scrubber (CD59)	118S	3.0 lb/hr
E020	3BPL (WITL) Prime Paint Booth	Air Filter (CD31)	059S	1.3 lb/hr
R010	TIF Line Intermediate Paint Booth	Air Filter (CD42)	097S	1.4 lb/hr
R020	TIF Line Intermediate Paint Booth	Air Filter (CD43)	099S	1.4 lb/hr
F055	#4 BPL (STIF) Intermediate Paint Booth	Water Curtain (CD33)	025S	2.5 lb/hr
I035	WITL Line (2&3 Cush) 1 Finish Paint Booth	Water Curtain (CD35)	021S	1.0 lb/hr
K055	MPIF Line Finish Paint Booth	Water Curtain (CD38)	092S	1.6 lb/hr
K040	MPIF Line Intermediate Paint Booth	Water Curtain (CD39)	088S	1.6 lb/hr
K010	MPIF Line Prime Paint Booth	Water Curtain (CD40)	083S	1.6 lb/hr
L020	MITL Line Paint Booth	Water Curtain (CD41)	102S	3.0 lb/hr
G035	WPIF Line (2BPL) Prime Paint Booth	Water Curtain (CD60)	120S	2.5 lb/hr
G060	WPIF Line (#2 BPL) Intermediate Paint Booth	Air Filter (CD61)	078S	2.3 lb/hr
T005	STIF Line Intermediate Paint Booth	Water Curtain (CD62)	131S	1.6 lb/hr
T015	STIF Line Finish Paint Booth	Water Curtain (CD63)	133S	1.6 lb/hr

* Stack ID No. 110S includes all three stacks used to exhaust emissions from Baghouse CD 53.

Title V Permit Amendment

Armstrong World Industries

Permit Amendment No.: 3296-021-0030-V-01-1

INSIGNIFICANT ACTIVITIES BASED ON EMISSION LEVELS

Description of Emission Units / Activities	Quantity
Water Booth (L015)	1
Dryer/Embossing (E025, L030, E030)	1
Embossing (, G050, G056)	3
Cooler (F045, F065, G045, G075, H025, T025)	7
Dryer (F030, F050, H020, I040, I050, J020, J025, R015, R025, T010, T020)	11