



west virginia department of environmental protection

Division of Air Quality  
601 57<sup>th</sup> Street SE  
Charleston, WV 25304  
Phone: (304) 926-0475 • FAX: (304) 926-0479

Jim Justice, Governor  
Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

October 6, 2017

Stephen Ward  
6401 Golden Triangle, Suite 400  
Greenbelt, MD 20770

RE: Bardon, Inc.  
Millville Quarry  
Permit Application G40-C003G  
Plant ID No. 037-00015

Dear Mr. Ward:

Your application for a modification permit as required by Section 5 of 45CSR13 - "Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permit, General Permit, and Procedures for Evaluation" has been approved. The enclosed permit G40-C003G is hereby issued pursuant to Subsection 5.7 of 45CSR13. Please be aware of the notification requirements in the permit which pertain to commencement of construction, modification, or relocation activities; startup of operations; and suspension of operations.

This permit does not affect 45CSR30 applicability, the source is a nonmajor source subject to 45CSR30.

In accordance with 45CSR30- Operating Permit Program, the permittee shall submit a certified emissions statement and pay fees on an annual basis in accordance with the submittal requirements of the Division of Air Quality. A receipt for the appropriate fee shall be maintained on the premises for which the receipt has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative.

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §§22-5-14.

Should you have any questions or comments, please contact me at (304) 926-0499, extension 1212.

Sincerely,

Thornton E. Martin Jr.  
Permit Engineer

c: Lisa Hunt, Area Environmental Manager, Bardon, Inc., [lisa.hunt@aggregate-us.com](mailto:lisa.hunt@aggregate-us.com)  
Patrick Ward, Potesta & Associates, Inc., [PEWard@potesta.com](mailto:PEWard@potesta.com)



This Class II General Permit Registration will supercede and replace G40-C003F.

Facility Location: 57 Blair Road, Harpers Ferry, Jefferson County, West Virginia 26847  
Mailing Address: 6401 Golden Triangle Drive, Suite 400, Greenbelt, MD 20770  
Facility Description: Nonmetallic Mineral Processing Plant  
NAICS Codes: 212312  
UTM Coordinates: 259.027 km Easting • 4,352.354km Northing • Zone 17  
Registration Type: Modification

Subject to 40CFR60 Subpart OOO? Yes  
Subject to 40CFR60 Subpart IIII? No  
Subject to 40CFR60 Subpart JJJJ? No

*Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit or registration issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [ §§ 22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.*

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*This permit does not affect 45CSR30 applicability, the source is a nonmajor source subject to 45CSR30.*

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*Unless otherwise stated WVDEP DAQ did not determine whether the registrant is subject to an area source air toxics standard requiring Generally Achievable Control Technology (GACT) promulgated after January 1, 2007 pursuant to 40 CFR 63, including the area source air toxics provisions of 40 CFR 63, Subpart ZZZZ.*

**All registered facilities under Class II General Permit G40-C are subject to Sections 1.0, 1.1, 2.0, 3.0, and 4.0.**

The following sections of Class II General Permit G40-C apply to the registrant:

- Section 5 Nonmetallic Mineral Processing Operations X
- Section 6 Standards of Performance for Nonmetallic Mineral Processing Plants that Commenced Construction, Reconstruction or Modification after August 31, 1983 but before April 22, 2008 (40CFR60 Subpart OOO) X
- Section 7 Standards of Performance for Nonmetallic Mineral Processing Plants that Commenced Construction, Reconstruction or Modification on or after April 22, 2008. (40CFR60 Subpart OOO) X
- Section 8 Reciprocating Internal Combustion Engines (R.I.C.E.)
- Section 9 Tanks
- Section 10 Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40CFR60 Subpart IIII)
- Section 11 Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (40CFR60 Subpart JJJJ)

**Emission Units**

Equipment ID No.	Date of Manufacture	Description	Maximum Capacity		Control Equipment <sup>1</sup>
			TPH	TPY	
<b>Crushers</b>					
3600.311-JC01	2001	Jaw Crusher	600	3,000,000	FE
3600.321-CZ01	2001	7 Cone Crusher	700	4,000,000	FE
3600.331-CZ03	2016	Metso Crusher (replaced the Hazemag crusher dated 2005)	800	2,500,000	FE
3600.331-CZ01	2006 <sup>2</sup>	HP 500 Cone Crusher	1,000	2,000,000	FE
3600.331-CZ02	1999	HP 300 Cone Crusher	1,000		FE
3600.341-VI01	2017 <sup>3</sup>	Impact Service Corp Model ISC 77 Crusher	400	750,000	FE
<b>Screens</b>					
3600.311-RZ01	2001	Grizzly Screen	1,200	6,000,000	MC
3600.311-VS01	2009 <sup>2</sup>	PS1 Double Deck Screen	1,200	6,000,000	PE-MC
3600.331-VS01	2004	MS1 Triple Deck Screen	1,000	6,000,000	PE-MC
3600.331-VS02	2004	MS2 Triple Deck Screen	1,000		PE-MC
3600.331-VS03	2004	MS3 Triple Deck Screen	1,000		PE-MC
3600.331-VS04	2011 <sup>2</sup>	MS4 Triple Deck Screen	1,000	4,500,000	PE-MC
3600.331-VS05	2005	MS5 Triple Deck Screen	800	2,500,000	PE-MC
3600.331-VS06	2005	MS6 Triple Deck Screen	800		PE-MC
3600.351-VS01	2013 <sup>2</sup>	MS7 Triple Deck Screen	400		1,500,000

Equipment ID No.	Date of Manufacture	Description	Maximum Capacity		Control Equipment <sup>1</sup>
			TPH	TPY	
3600.351-VS02	2011 <sup>2</sup>	MS8 Triple Deck Screen	600	3,500,000	Wet
3600.352-VS01	2015	Triple Deck Sand Screen	500	750,000	Wet
<b>Conveyors</b>					
3600.311-BC01	2001	P1 Belt Conveyor	1,200	6,000,000	N
3600.311-BC02	2001	P2 Belt Conveyor	1,200	6,000,000	WS
3600.311-BC03	2001	P3 Belt Conveyor	500	2,000,000	N
3600.311-BC04	2001	P4 Belt Conveyor	300	2,000,000	N
3600.311-ST01	2001	P5 Stacking Conveyor	300	2,000,000	N
3600.321-BC01	2001	P6 Belt Conveyor	1,200	6,000,000	WS
3600.321-BC02	2001	P7 Belt Conveyor	1,200	6,000,000	N
3600.321-BC03	2001	P8 Belt Conveyor	1,200	6,000,000	N
3600.321-BC04	2001	P9 Belt Conveyor	1,200	6,000,000	N
3600.331-BC01	2001	M1 Belt Conveyor	1,200	6,000,000	PE
3600.331-BC02	2017 <sup>3</sup>	M2 Belt Conveyor	1,000	6,000,000	N
3600.331-BC04	1984	M5 Belt Conveyor	800	2,500,000	N
3600.331-BC05	2005	M6 Belt Conveyor	800	2,500,000	N
3600.331-BC06	2005	M10 Belt Conveyor	800	2,500,000	WS
3600.331-BC12	2005	M12 Belt Conveyor	300	2,000,000	N
3600.331-BC08	1984	M13 Belt Conveyor	600	2,000,000	N
3600.331-BC09	1984	M14 Belt Conveyor	1,000	4,500,000	WS
3600.331-BC10	1984	M7 Belt Conveyor	400	250,000	N
3600.331-BC11	1984	M8 Belt Conveyor	400	250,000	N
3600.331-ST02	1984	M9 Stacking Conveyor	400	250,000	WS
3600.331-BC07	1984	M11 Belt Conveyor	300	2,000,000	N
3600.331-BC13	1984	M22 Belt Conveyor	200	1,752,000	N
3600.331-BC14	1984	M23 Belt Conveyor	200	1,752,000	N
3600.331-BC15	2006 <sup>2</sup>	M24 Belt Conveyor	400	3,500,000	N
3600.331-ST03	2005	M25 Stacking Conveyor	400	3,500,000	N
3600.351-BC01	2005	M15 Belt Conveyor	600	3,500,000	N
3600.351-BC02	2005	M16 Belt Conveyor	600	3,500,000	N
3600.351-BC03	2005	M17 Belt Conveyor	600	3,500,000	N
3600.351-ST01	2014 <sup>2</sup>	M18 Stacking Conveyor	600	3,500,000	N
3600.351-SY01	2013 <sup>2</sup>	67S Screw	50	438,000	Wet
3600.351-BC07	2013 <sup>2</sup>	M26 Belt Conveyor	50	438,000	N
3600.351-BC04	2005	M19 Belt Conveyor	400	1,500,000	N
3600.351-BC05	2005	M20 Belt Conveyor	400	1,500,000	N
3600.351-ST02	2005	M21 Stacking Conveyor	400	1,500,000	N
3600.352-BC01	1998	M27 Belt Conveyor	200	750,000	N
3600.352-BC02	1998	M28 Belt Conveyor	200	750,000	N
3600.352-BC03	1998	S1 Belt Conveyor	300	750,000	N
3600.352-BC04	1998	S2 Belt Conveyor	500	750,000	N
3600.352-BC05	1998	S5 Belt Conveyor	400	750,000	N
3600.352-BC06	1998	S6 Belt Conveyor	200	750,000	N

Equipment ID No.	Date of Manufacture	Description	Maximum Capacity		Control Equipment <sup>1</sup>
			TPH	TPY	
3600.352-SY01	1998	Sand Screw	400	750,000	Wet
3600.352-BC07	1998	S7 Belt Conveyor	400	750,000	N
3600.341-BC01	1998	S3 Belt Conveyor	400	750,000	N
3600.341-BC02	1998	S4 Belt Conveyor	400	750,000	N
<b>Storage</b>					
3600.311-HP01	---	Dump Box	---	6,000,000	PE
3600.331-HP05	---	Hopper Feed Bin 5	---	2,500,000	PE
3600.331-HP09	---	Hopper Feed Bin 9	---	1,750,000	PE
SP1	---	CR6 Material	---	2,000,000	N
SP2	---	Gabion Stone	---	---	N
SP3	---	Surge Pile	---	6,000,000	N
SP5	---	Washed #8/#9/Sand	---	750,000	N
SP5A	---	Washed #8	---		N
SP6	---	Various Materials	---	5,000,000	N
SP7	---	Dry Ballast	---	250,000	N
SP8	---	Various Materials	---	20,000	N
SP9	---	Washed #8/#7	---	1,500,000	N
SP10	---	Various Materials	---	300,000	N
SP11	---	Various Materials	---	20,000	N
SP12	---	Various Materials	---	200,000	N
SP13	---	67 / 57	---	3,500,000	N
SP14	---	Dry #10	---		N
SP15	---	Various Materials	---	60,000	N
SP16	---	Various Materials	---	30,000	N
SP17	---	Various Materials	---	30,000	N
SP18	---	Various Materials	---	30,000	N

<sup>1</sup> FE - Full Enclosure; PE - Partial Enclosure; MC - Moisture Content; WS - Water Spray; N - No Controls; (---) - Not Applicable  
<sup>2</sup> After-the-Fact Equipment Replacement  
<sup>3</sup> Proposed Equipment Replacement

**Control Devices (Not Applicable)**

Control Device ID	Source ID No.	Emission Unit Description	Month/Year Constructed, Reconstructed, or Modified

**Reciprocating Internal Combustion Engines (*Not Applicable*)**

Emission Unit ID	Emission Unit Description (Make, Model, Serial No.)	Year Installed	Design Capacity (Bhp/rpm)

**Reciprocating Internal Combustion Engines (R.I.C.E.) Information (*Not Applicable*)**

Emission Unit ID	Subject to 40CFR60 Subpart III?	Subject to 40CFR60 Subpart JJJ?	Subject to Sections 8.1.4/8.2.1 (Catalytic Reduction Device)

**Emission Limitations**

Emission Source	Maximum Controlled Hourly Emissions (lb/hr)	Maximum Controlled Annual Emissions (tons/year)
<b>FUGITIVE EMISSIONS</b>		
Stockpiles	2.89	12.66
Unpaved Haulroads	144.74	226.45
Paved Haulroads	0.00	0.00
<b>Total Fugitive Emissions</b>	<b>147.63</b>	<b>239.11</b>
<b>POINT SOURCE EMISSIONS</b>		
Equipment Emissions	23.37	51.57
Transfer Point Emissions	87.82	107.55
<b>Total Point Source Emissions</b>	<b>111.19</b>	<b>159.12</b>
<b>TOTAL FACILITY EMISSIONS</b>		
<b>Total Facility Emissions</b>	<b>258.82</b>	<b>398.23</b>

**Engines (Not Applicable)**

Source ID	Emission Source	Pollutant	Maximum Hourly Emissions (lb/hr)	Maximum Annual Emissions (tpy)