West Virginia Department of Environmental Protection

Harold D. Ward
Cabinet Secretary

Class II General Permit
G20-C Registration to Construct

for the
Prevention and Control of Air Pollution in regard to the
Construction, Modification, Relocation, Administrative Update and
Operation of Hot Mix Asphalt Plants

The permittee identified at the facility listed below is authorized to construct and operate the stationary sources of air pollutants identified herein in accordance with all terms and conditions of General Permit G20-C.

G20-C041

Issued to:
W – L Construction & Paving, Inc.
Millville HMA Plant
037-00013

Laura M. Crowder
_____

Laura M. Crowder
Director, Division of Air Quality

Laura M. Crowder
Digitally signed by: Laura M. Crowder
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Date: 2023.11.17 10:22:40 -05'00'

Issued: November 17, 2023

This Class II General Permit Registration will supercede and replace R13-1121A.

Facility Location:	Bradstone Lane, Millville, Jefferson County, West Virginia 25432
Mailing Address:	175 John J. Thomas Way, Charles Town, West Virginia 25144
Facility Description:	Hot Mix Asphalt Plant
NAICS Code:	324121
SIC Code:	2951
Lat/Long Coordinates:	39.29680 / -77.79510
Directions to Facility:	From Charles Town, take US-340 N towards Harpers Ferry. Go 1.7 mile and turn right onto Blair Road. Go 0.8 mile and turn left onto Bradstone Lane. Facility will be on your right.
Registration Type:	Construction
Description of Change:	Construction and operation of a newer hot mix asphalt plant. The plant capacity will be 350 tons/hour and 250,000 tons/year. The existing plant is to be removed and the two plants will not operate simultaneously.

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.

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

Permit Section Applicability for the Registrant

All registered facilities under General Permit G20-C are subject to Sections 1.0, 2.0, 3.0, and 4.0 of General Permit G20-C.

The following additional sections of General Permit G20-C apply to the registrant:

GENERAL PERMIT G20-C APPLICABLE SECTIONS	
☑ Section 5.0	Hot Mix Asphalt Plants
☐ Section 6.0	Reciprocating Internal Combustion Engines and Generator Engines (excluding non-road engines)
☐ Section 7.0	Non-Road Engines
☑ Section 8.0	Small Heaters and Boilers not subject to 40CFR60 Subpart Dc

HOT MIX ASPHALT BATCH PLANT

General HMA Plant Information	Source Identification Number	DBDM1
	Manufacturer & Model Number	Astec Model RDB-8437
	Date of Manufacture	2005
	Plant Type	Double Barrel Drum Mixer
	Max Production Rate (ton/hour)	350
	Max Yearly Production (tons/year)	250,000
	Annual Operation (hours/year)	2,800
Batch Plant Information	Tons per Batch	-
	Batches per Hour	-
Drum Mixer Information	Drum Length (ft)	37
	Drum Diameter (ft)	7
Burner, Fuel & Combustion Data	Burner Manufacturer & Model Number	Hauk Starjet SJ-580
	Design Heat Input (mmBTU/hour)	120
	Excess Air (%)	20-30
	Fuel Type	No. 2 fuel oil (No.2FO), Used oil (UO)
	Maximum Fuel Usage	870 gal/hr No.2FO, 863 gal/hr UO
	Fuel Heating Value	138,000 Btu/gal No.2FO, 139,000 Btu/gal UO
	Maximum Sulfur Content (%)	0.5
	Maximum Ash Content (%)	0.01

HMA Plant subject to 40CFR60 Subpart I? ☒Yes ☐ No

HMA Plant subject to 40CFR60 Subpart OOO? ☐ Yes ☒No

APCD

HMA PLANT AIR POLLUTION CONTROL DEVICE DATA SHEET	PRIMARY COLLECTION (INERTIAL SEPARATOR)	SECONDARY COLLECTION (BAGHOUSE)
APCD Identification Number	APCD1	APCD2
Manufacturer & Model Number		Astec Model RBH-64:DB
Number of Cylinders		
Number of Compartments		Two – Inert. Sep. and Baghouse
Cylinder Diameter (ft)		
Cylinder Length (ft)		
Cone Length (ft)		
Gas Inlet Area (ft)		--
Gas Outlet Area (ft)		--
Bag Cleaning Mechanism		Pulse Jet
Total Cloth (fabric) Area (ft^2)		11,616
Draft Fan HP		Unknown
Outlet Stack Area (ft^2)		11.35
Minimum Design ΔP (in H20)		2
Maximum Design ΔP (in H20)		6
Inlet Gas Flow Rate (ACFM)		64,000
Inlet Gas Temperature (°F)		240 °F
Inlet Gas Pressure (PSIA)		--
Inlet Gas Velocity (ft/sec)		--
PM Inlet Rate (grains/ACF)		100
PM Outlet Rate (grains/ACF)		0.04
Operating Air/Cloth Ratio (ft/min)		5.5

STORAGE AND HANDLING

Source Identification Number	OS1-OS8	OS9	B1-B6	B7, B8	BS1-BS3
Material Stored	Aggregate & Sand	RAP	Cold Feed Bins	RAP Feed Bins	Asphalt Silos
Maximum Yearly Throughput (tons/year)	250,000	100,000	250,000	100,000	250,000
Typical Moisture Content (%)	3	3	3	3	--
Average % of Material Passing Through 200 Mesh Sieve	1	1	1	1	--
Maximum Stockpile Base Area (ft^2)	130,700	87,120	--	--	--
Maximum Stockpile Height (ft)	15	15	--	--	--
Maximum Storage Capacity (tons)	820,000	550,000	120	40	600
Dust Control Method Applied to Storage	WS	WS	PE	PE	FE
Method of Material Load-in to Bin or Stockpile	TD	TD	FE	FE	SS
Dust Control Method Applied During Load-in	MD	MD	MD	MD	PE
Method of Material Load-out from Bin or Stockpile	FE	FE	SS	SS	Chute
Dust Control Method Applied During Load-out	MD	MD	PE	PE	PE

WS – Water Spray; PE – Partial Enclosure; FE – Front Endloader; SS – Stationary Conveyor; MD – Minimum Drop Height; "—" – Not Applicable; N - None

STORAGE VESSELS

Source ID #	Content (Lube Oil, Diesel, etc.)	Volume (gal)
T1	Asphaltic Cement	20,000
T2	Asphaltic Cement	35,000
T3	No. 2 Fuel Oil	10,000
T4	Recycled Used Oil	10,000

HMA PLANT ASPHALT HEATER DATA SHEET				
Emission Unit ID#	**Emission Point ID#**	**Description**	**MDHI (MMBTU/hr)**	**Year Installed/ Modified**
AH1	2E	Asphalt Heater - CEI-1500 Jacketed Firebox Hot Oil Heater – 5,760 hrs/yr	2.115	2023

RECIPROCATING INTERNAL COMBUSTION ENGINES ***(NOT APPLICABLE)***									
Emission Unit ID#	**Emission Point ID#**	**Make/Model/HP**	**Control Device ID#**	**Year Installed/ Modified**	**Engine Manufacture Date**	**Subject to 6.1.4/ 6.2**	**Engine Type**	**Applicable Rules**	**40CFR63 Subpart ZZZZ New or Existing?**
						☐ Yes ☐ No	☐ 2SLB ☐ 4SLB ☐ 4SRB	☐ 40CFR60 Subpart JJJJ ☐ Certified? ☐ 40CFR60 Subpart IIII ☐ Certified? ☐ 40CFR63 Subpart ZZZZ ☐ NESHAP ZZZZ/ NSPS JJJJ Window	☐ New ☐ Existing
						☐ Yes ☐ No	☐ 2SLB ☐ 4SLB ☐ 4SRB	☐ 40CFR60 Subpart JJJJ ☐ Certified? ☐ 40CFR60 Subpart IIII ☐ Certified? ☐ 40CFR63 Subpart ZZZZ ☐ NESHAP ZZZZ/ NSPS JJJJ Window	☐ New ☐ Existing
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						☐ Yes ☐ No	☐ 2SLB ☐ 4SLB ☐ 4SRB	☐ 40CFR60 Subpart JJJJ ☐ Certified? ☐ 40CFR60 Subpart IIII ☐ Certified? ☐ 40CFR63 Subpart ZZZZ ☐ NESHAP ZZZZ/ NSPS JJJJ Window	☐ New ☐ Existing

New or reconstructed sources in accordance with 63.76590(c) must only meet the requirements of 40CFR60 Subparts IIII or JJJJ.

RECIPROCATING INTERNAL COMBUSTION ENGINES TESTING REQUIREMENTS ***(NOT APPLICABLE)***						
Emission Unit ID#	**Emission Point ID#**	**Make/Model/HP**	**Control Device ID#**	**Year Installed/ Modified**	**Engine Manufacture Date**	**Testing Requirements**
						☐ Initial Performance Test ☐ Every 8,760 hours of operation or 3 years (whichever comes first)
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NON-ROAD ENGINES *(Not Applicable)*

Engine Manufacturer:	
Engine Model:	
Engine Serial No.:	
Engine Date of Mfg:	

HEATERS/DRYER/ENGINES CONTROLLED EMISSIONS SUMMARY SHEET														
Emission Point ID#	NO_x		CO		VOC		SO_2		PM		PM_{10}		GHG (CO_2e)	
	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy
1E	19.25	6.88	45.5	16.25	11.20	4.00	20.30	7.25	11.21	15.69	2.58	3.61		
2E	0.37	1.06	0.08	0.22	0.02	0.04	1.13	3.24	0.64	1.84	0.51	1.46		
TOTAL	19.62	7.94	45.58	16.47	11.22	4.04	21.43	10.49	11.85	17.53	3.09	5.07		

HEATERS/DRYER/ENGINES CONTROLLED HAP EMISSIONS SUMMARY SHEET														
Emission Point ID#	Formaldehyde		Benzene		Toluene		Ethylbenzene		Xylenes		Hexane		Total HAPs	
	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy
1E	1.085	0.388	0.137	0.049	1.015	0.363	0.084	0.030	0.070	0.025	0.322	0.115	2.713	0.97
2E	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0	0	0.005	0.005
TOTAL	1.086	0.389	0.138	0.05	1.016	0.364	0.085	0.031	0.071	0.026	0.322	0.115	2.718	0.975