

REVISED DRAFT/PROPOSED
Data Base Summary (Statement of Basis)
NEW TV

PSD	Size	Portable
N	NEW TV	N

Permit Writer: Cille Pritchard-Hoback
Notice of Intent No. 2537
Operating Permit No. (TV) P260
IDEA ID No. 1409 - PRT20120001
AIRS ID No. 35 045 0423
SIC CODE: 1222: Bituminous coal underground mining
Facility Type: MINING-Coal Mine
Company: BHP Coal New Mexico - San Juan Coal Company
Facility: San Juan Mine
Type of Permit Action: New Title V
Application Date: June 29, 2012
Receive Date: July 2, 2012
Timeliness of TV Application: Yes, the application was submitted on time
Ruled Incomplete: NA
Ruled Complete: August 23, 2012
APP. sent to Field Office: not required
PSD APP. Sent to EPA: not required
Public Notice Date & Newspaper: Farmington Daily Times, date 12-5-2013
Comments Due: 1-1-2014
NSR Analysis Review Begins: not required
NSR Analysis Review Ends: not required
Public Hearing:
Proposed Permit to EPA Acknowledged: November 27, 2013
Permit Due: February 22, 2014
Permit Issued:
PSD Permit to EPA: NA

Facility Location: This facility is located approximately 16 miles West of Farmington in San Juan County, New Mexico.
UTM ZONE: 12
UTM Easting: 729,112 meters
UTM Northing: 4,074,924 meters
Elevation: 5,200 feet
County: San Juan
In a Sensitive Area: No

Contact Name: Dennis Vaughn
Phone/Fax: 505-598-3279

Email: dennis.r.vaughn@bhpbilliton.com

Contact Address: PO Box 561
Waterflow, NM 87421

Consultant Name: None listed in Application

Title V AFFECTED PROGRAM* NOTIFICATION:

Affected Program	Distance	Units	Date Letter Sent
Navajo Nation	2.4	km	11-27-13
Ute Mountain Ute	5.2	km	11-27-13
State of Colorado	22	km	11-27-13
State of Arizona	55	km	11-27-13
State of Utah	59	km	11-27-13
Southern Ute	27	km	11-27-13

*As defined by 20.2.70.7.B: All States, local air pollution control programs, and Indian Tribes and Pueblos, that are within 50 miles (80.5 km) of the source.

PART II - FACILITY SPECIFICATIONS

Total Requested Allowable Pollutant Emissions from Entire Facility (for information only, not an enforceable condition):

Pollutant	Emissions (tons per year)	Emission Type
Nitrogen Oxides (NOx)	7.6	potential
Carbon Monoxide (CO)	2.2	potential
Volatile Organic Compounds (VOC)	1.3	potential
Sulfur Dioxide (SO2)	0.1	potential
Particulate Matter (total suspended)	493.1	potential
Particulate Matter (10 microns or less)	160.3	potential
Particulate Matter (2.5 microns or less)	44.9	potential
Greenhouse Gas (GHG)	573,225.4	potential

Total HAPS* and NM TAPS that exceed 1.0 ton per year (for information only, not an enforceable condition): The permittee reported zero hazardous air pollutants (HAPs) from the facility.

AIR POLLUTION CONTROL DEVICES:

Subject Item Unit #	SI Description	Primary Control	Control Equipment Mfg. & Model (or equivalent)	Efficiency (% Control by Weight)
S1	Underground Mine Conveyor to Transfer Tower 1	¾ Enclosure	NA	70%
S2	Mine Trans Tower 1 to Trans Tower 2	¾ Enclosure	NA	70%
S3	Mine Stack Conveyor	¾ Enclosure	NA	70%
S6 – S9	Hoppers 1 - 4	Full Enclosure	NA	85%
S10 – S13	Feeders 1 - 4	Full Enclosure	NA	85%
S17	Conveyor to Feed Bin	Full Enclosure	NA	85%
S14	Chute 1 to Conveyor 1	Water/Chemical Sprays at Transfer Points	NA	96%
S15	Chute 2 to Conveyor 1	Water/Chemical Sprays at Transfer Points	NA	96%
S16	Conveyor to Conveyor Transfer Point	Enclosure of Transfer Point	NA	96%
S22	Conveyor to Sample Tower Transfer Point	Enclosure of Transfer Point	NA	96%
S18 – S21	Crushers 1 - 4	Water/Chemical Sprays and Enclosures	NA	96%
S23	Paved Road	Paved and Swept	NA	NA
S24	Coal Haul Traffic/Unpaved Roads	Water Sprays	Water Trucks	94.7%
S25	Ash Haul Traffic/Unpaved Roads	Water Sprays	Water Trucks	94.7%
S26	Gypsum Haul Traffic/Unpaved Roads	Water Sprays	Water Trucks	94.7%
S27	Light Vehicle Traffic/Unpaved Roads	Water Sprays	Water Trucks	79.9%

Note: Units S5-S22 are the Coal Preparation Plant which is subject to NSPS Subpart Y, 20.2.42 NMAC, and 20.2.72 NMAC permitting. S24 is also subject to 20.2.42 NMAC.

Note: Table 2-C “Emissions Control Equipment” of the application indicates that water is applied to paved and unpaved roads, however, the calculations show in Section 6 that water is applied only to the unpaved roads.

EQUIPMENT SPECIFICATIONS (Active/Alternative):

Unit No.	Unit Type	Manufacturer	Model No.	Serial No.	Yr of Construction	Yr of Manufacture	Operating Rate Max/Site	Operating Capacity Max/Site	Subject Item Status	Subject Item Description
S1	Mine Conveyor UG to Transfer Tower 1	not reported	not reported	not reported	not reported	not reported	13,000,000 tpy	13,000,000 tpy	Active	Mine Conveyor UG to Transfer Twr1
S2	Mine Transfer Tower 1 to Transfer Tower 2	not reported	not reported	not reported	not reported	not reported	13,000,000 tpy	13,000,000 tpy	Active	Mine Transfer Tower 1 to Transfer Tower 2

Unit No.	Unit Type	Manufacturer	Model No.	Serial No.	Yr of Construction	Yr of Manufacture	Operating Rate Max/Site	Operating Capacity Max/Site	Subject Item Status	Subject Item Description
S3	Mine Stacker Conveyor	not reported	not reported	not reported	not reported	not reported	13,000,000 tpy	13,000,000 tpy	Active	Mine Stacker Conveyor
S4	Truck Loading at Mine Storage Pile	not reported	not reported	not reported	not reported	not reported	13,000,000 tpy	13,000,000 tpy	Active	Truck Loading at Mine Storage Pile
S5	Coal Truck/Dozer Unloading to Hopper	not reported	not reported	not reported	not reported	not reported	13,000,000 tpy	13,000,000 tpy	Active	Coal Truck/Dozer Unloading to Hopper
S6	Hopper 1	not reported	not reported	not reported	01/01/1979	not reported	3.25 mm / 3.25 mm	3.25 mm / 3.25 mm	Active	Conveyor to Sample Tower Transfer Point
S7	Hopper 2	not reported	not reported	not reported	01/01/1979	not reported	3.25 mm / 3.25 mm	3.25 mm / 3.25 mm	Active	Hopper 2
S8	Hopper 3	not reported	not reported	not reported	01/01/1979	not reported	3.25 mm / 3.25 mm	3.25 mm / 3.25 mm	Active	Hopper 3
S9	Hopper 4	not reported	not reported	not reported	01/01/1979	not reported	3.25 mm / 3.25 mm	3.25 mm / 3.25 mm	Active	Hopper 4
S10	Feeder 1	not reported	not reported	not reported	01/01/1979	not reported	3.25 mm / 3.25 mm	3.25 mm / 3.25 mm	Active	Feeder 1
S11	Feeder 2	not reported	not reported	not reported	01/01/1979	not reported	3.25 mm / 3.25 mm	3.25 mm / 3.25 mm	Active	Feeder 2
S12	Feeder 3	not reported	not reported	not reported	01/01/1979	not reported	3.25 mm / 3.25 mm	3.25 mm / 3.25 mm	Active	Feeder 3
S13	Feeder 4	not reported	not reported	not reported	01/01/1979	not reported	3.25 mm / 3.25 mm	3.25 mm / 3.25 mm	Active	Feeder 4
S14	Chute 1 to Conveyor 1	not reported	not reported	not reported	01/01/1979	not reported	6.5 mm / 6.5 mm	6.5 mm / 6.5 mm	Active	Chute 1 to Conveyor 1
S15	Chute 2 to Conveyor 1	not reported	not reported	not reported	01/01/1979	not reported	6.5 mm / 6.5 mm	6.5 mm / 6.5 mm	Active	Chute 2 to Conveyor 1

Unit No.	Unit Type	Manufacturer	Model No.	Serial No.	Yr of Construction	Yr of Manufacture	Operating Rate Max/Site	Operating Capacity Max/Site	Subject Item Status	Subject Item Description
S16	Conveyor to Conveyor Transfer Point	not reported	not reported	not reported	01/01/1979	not reported	13 mm / 13 mm	13 mm / 13 mm	Active	Conveyor to Conveyor Transfer Point
S17	Conveyor to Feed Bin	not reported	not reported	not reported	01/01/1979	not reported	13 mm / 13 mm	13 mm / 13 mm	Active	Conveyor to Feed Bin
S18	Crusher 1	Pennsylvania Crusher Corporation	TK 20-54 CD Granulators	4403	01/01/1979	not reported	3.25 mm / 3.25 mm	3.25 mm / 3.25 mm	Active	Crusher 1
S19	Crusher 2	Pennsylvania Crusher Corporation	TK 20-54 CD Granulators	4404	01/01/1979	not reported	3.25 mm / 3.25 mm	3.25 mm / 3.25 mm	Active	Crusher 2
S20	Crusher 3	Pennsylvania Crusher Corporation	TK 20-54 CD Granulators	4405	01/01/1979	not reported	3.25 mm / 3.25 mm	3.25 mm / 3.25 mm	Active	Crusher 3
S21	Crusher 4	Pennsylvania Crusher Corporation	TK 20-54 CD Granulators	4406	01/01/1979	not reported	3.25 mm / 3.25 mm	3.25 mm / 3.25 mm	Active	Crusher 4
S22	Conveyor to Sample Tower Transfer Point	not reported	not reported	not reported	01/01/1979	not reported	13 mm / 13 mm	13 mm / 13 mm	Active	Conveyor to Conveyor Transfer Point
S23	Light Vehicle Traffic – Paved Road	NA	NA	NA	NA	NA	8507 mile / 8507 mile	8507 mile / 8507 mile	Active	Light Vehicle Traffic - Paved Road
S24	Coal Haul Traffic	NA	NA	NA	NA	NA	374534 mile / 374534 mile	374534 mile / 374534 mile	Active	Coal Haul Traffic
S25	Ash Haul Traffic	NA	NA	NA	NA	NA	374534 mile / 374534 mile	374534 mile / 374534 mile	Active	Ash Haul Traffic
S26	Gypsum Haul Traffic	NA	NA	NA	NA	NA	374534 mile / 374534 mile	374534 mile / 374534 mile	Active	Gypsum Haul Traffic

Unit No.	Unit Type	Manufacturer	Model No.	Serial No.	Yr of Construction	Yr of Manufacture	Operating Rate Max/Site	Operating Capacity Max/Site	Subject Item Status	Subject Item Description
S27	Light Vehicle Traffic – Unpaved Road	NA	NA	NA	NA	NA	496000 mile / 496000 mile	496000 mile / 496000 mile	Active	Light Vehicle Traffic - Unpaved Road
S28	Grader – Road Maintenance	NA	NA	NA	NA	NA	30000 mile / 30000 mile	30000 mile / 30000 mile	Active	Grader - Road Maintenance
S29	Dozer- Coal Push – Coal Plant	NA	NA	NA	NA	NA	4044 h/y / 4044 h/y	4044 h/y / 4044 h/y	Active	Dozer - Coal Push-Coal Plant
S30	Dozer- Coal Push – Juniper	NA	NA	NA	NA	NA	4044 h/y / 4044 h/y	4044 h/y / 4044 h/y	Active	Dozer - Coal Push-Juniper
S31	Dozer- Ash Push – Ash Dump	NA	NA	NA	NA	NA	4044 h/y / 4044 h/y	4044 h/y / 4044 h/y	Active	Dozer - Ash Push Ash Dump
S32	Dozer – Coal Push – Stack-out Pile	NA	NA	NA	NA	NA	4044 h/y / 4044 h/y	4044 h/y / 4044 h/y	Active	Dozer - Coal Push Stack-out
S33	Dozer- Ash Push – Ash Dump	NA	NA	NA	NA	NA	4044 h/y / 4044 h/y	4044 h/y / 4044 h/y	Active	Dozer - Ash Push-Ash Dump
S34	Dozer – Reclaim Push	NA	NA	NA	NA	NA	4044 h/y / 4044 h/y	4044 h/y / 4044 h/y	Active	Dozer - Reclaim Push
S35	Dozer – Coal Push	NA	NA	NA	NA	NA	4044 h/y / 4044 h/y	4044 h/y / 4044 h/y	Active	Dozer - Coal Push
S36	Dozer – Reclaim Push	NA	NA	NA	NA	NA	4044 h/y / 4044 h/y	4044 h/y / 4044 h/y	Active	Dozer - Reclaim Push
S37	Dozer – GVB Area Push	NA	NA	NA	NA	NA	4044 h/y / 4044 h/y	4044 h/y / 4044 h/y	Active	Dozer - GVB Area Push
S38	ULE Shaft	NA	NA	NA	NA	NA	8760 h/y / 8760 h/y	8760 h/y / 8760 h/y	Active	ULE Shaft

Unit No.	Unit Type	Manufacturer	Model No.	Serial No.	Yr of Construction	Yr of Manufacture	Operating Rate Max/Site	Operating Capacity Max/Site	Subject Item Status	Subject Item Description
S39	KFC Shaft	NA	NA	NA	NA	NA	8760 h/y / 8760 h/y	8760 h/y / 8760 h/y	Active	KFC Shaft
S40	Stack-out Pile Wind Erosion	NA	NA	NA	NA	NA	12645 m ² / 12645 m ²	12645 m ² / 12645 m ²	Active	Stack-out Pile Wind Erosion
S41	Storage Pile Near Coal Plant – Wind Erosion	NA	NA	NA	NA	NA	95463 m ² / 95463 m ²	95463 m ² / 95463 m ²	Active	Storage Pile Near Coal Plant Wind Erosion
S42	Juniper Pile – Wind Erosion	NA	NA	NA	NA	NA	111750 m ² / 111750 m ²	111750 m ² / 111750 m ²	Active	Juniper Pile Wind Erosion
S43	North Reclaim – Wind Erosion	NA	NA	NA	NA	NA	45488 m ² / 45488 m ²	45488 m ² / 45488 m ²	Active	North Reclaim Wind Erosion
S44	South Reclaim – Wind Erosion	NA	NA	NA	NA	NA	71050 m ² / 71050 m ²	71050 m ² / 71050 m ²	Active	South Reclaim Wind Erosion
S45	GVB Area – Wind Erosion	NA	NA	NA	NA	NA	18375 m ² / 18375 m ²	18375 m ² / 18375 m ²	Active	GVB Area Wind Erosion
SJ-7*	Gas Dispensing Facility	NA	NA	NA	NA	NA	6500 gallons	6500 gallons	Active	Gasoline Dispensing Tank
EG-1	Underground Control Room Standby Generator	Caterpillar	C4.4	E3N00054	2-18-2010	2010	82.5-99.9 bhp	82.5-99.9 bhp	Active	Emergency Power if Line Power is Lost
EG-2	Standby Generator for Tube Bundle Analyzer	John Deere	CD4039T42 9773	439TF008	5-22-2002	2001	73 Kw/99 hp	73 Kw/99 hp	Active	Emergency Power if Line Power is Lost

Unit No.	Unit Type	Manufacturer	Model No.	Serial No.	Yr of Construction	Yr of Manufacture	Operating Rate Max/Site	Operating Capacity Max/Site	Subject Item Status	Subject Item Description
EG-3	Emergency Generator for ULE Escape Hoist	Ford Power Products	LSG-8751-6006-C	15789-1-04-98	1-4-1998	1998	1628 hp	1628 hp	Active	Backup power for escape hoist at the ULE main ventilation shaft
EG-4	Standby Generator	Briggs & Stratton	30347-0494-01	94111111	2004	Unknown	16 hp	16 hp	Active	Backup power for 2-way radio repeater at Coal Plant Secondary Building
EG-5	Emergency Generator for KFC Ventilation Shaft Escape Hoist	Cummins, Inc.	4BT3.9-G3	46401271	6-6-2004	2004	58Kw/78 hp	58Kw/78 hp	Alternative Operating Plan	KFC Shaft has been Abandoned
EG-6	Standby Generator	Caterpillar	3412C	6EA10707	1985	4-4-1995	604 Kw/810 hp	604 Kw/810 hp	Alternative Operating Plan	Never installed but is warehoused at Mine

* This unit is subject to 40 CFR 63 Subpart CCCCCC.

EQUIPMENT SPECIFICATIONS (Inactive/Retired/Removed): None

EMISSIONS: Pollutant **Potential** Emissions without allowable emission limits in the permit are: NO_x, CO, VOC, SO_x, TSP, PM_{2.5}, H₂S, and Lead. Allowable emission limits are PM₁₀ lb/hr and tpy.

Table 2-E: Requested Allowable Emissions (As submitted by the Applicant)

Unit No.	NO _x		CO		VOC		SO _x		TSP ²		PM10 ²		PM2.5 ²		H ₂ S		Lead	
	lb/hr	ton/y	lb/hr	ton/y	lb/hr	ton/y	lb/hr	ton/y	lb/hr	ton/y	lb/hr	ton/y	lb/hr	ton/y	lb/h	ton/y	lb/hr	ton/y
S1									0.42	1.5	0.20	0.72	0.030	0.11				
S2									0.42	1.5	0.20	0.72	0.030	0.11				

S3									0.42	1.5	0.20	0.72	0.030	0.11				
S4									1.4	5.1	0.67	2.4	0.100	0.36				
S5									1.4	5.1	0.67	2.4	0.100	0.36				
S6									0.053	0.19	0.03	0.09	0.004	0.014				
S7									0.053	0.19	0.03	0.09	0.004	0.014				
S8									0.053	0.19	0.03	0.09	0.004	0.014				
S9									0.053	0.19	0.03	0.09	0.004	0.014				
S10									0.053	0.19	0.03	0.09	0.004	0.014				
S11									0.053	0.19	0.03	0.09	0.004	0.014				
S12									0.053	0.19	0.03	0.09	0.004	0.014				
S13									0.053	0.19	0.03	0.09	0.004	0.014				
S14									0.028	0.048	0.01	0.048	0.002	0.007 3				
S15									0.028	0.048	0.01	0.048	0.002	0.007 3				
S16									0.056	0.2	0.03	0.1	0.004	0.015				
S17									0.21	0.76	0.10	0.36	0.015	0.055				
S18									0.08	0.35	0.04	0.16	0.005	0.024				
S19									0.08	0.35	0.04	0.16	0.005	0.024				
S20									0.08	0.35	0.04	0.16	0.005	0.024				
S21									0.08	0.35	0.04	0.16	0.005	0.024				
S22									0.056	0.2	0.03	0.1	0.004	0.015				
S23									0.61	2.6	0.12	0.51	0.030	0.13				
S24									21	75	5.90	21.3	0.590	2.1				
S25									29	103	8.10	29	0.810	2.9				
S26									2.3	8.2	0.65	2.3	0.065	0.23				
S27									45	161	12.00	42	1.200	4.2				
S28									11	34	3.80	11	0.350	1				
S29									3.4	6.9	0.63	1.3	0.360	0.72				

S30									3.4	3.4	0.63	0.64	0.360	0.36				
S31									3.9	4	0.75	0.76	0.410	0.42				
S32									3.4	3.4	0.63	0.64	0.360	0.36				
S33									3.9	4	0.75	0.76	0.410	0.42				
S34									3.9	6.8	0.75	1.3	0.410	0.71				
S35									3.9	4	0.75	0.76	0.410	0.42				
S36									3.9	6.8	0.75	1.3	0.410	0.71				
S37									3.9	3.2	0.75	0.61	0.410	0.33				
S38									6.1	27	6.10	27	6.100	27				
S39																		
S40									1.3	5.6	0.64	2.8	0.096	0.42				
S41									0.59	2.6	0.30	1.3	0.046	0.2				
S42									0.71	3.1	0.34	1.5	0.053	0.23				
S43									0.68	3	0.34	1.5	0.053	0.23				
S44									1.1	4.8	0.55	2.4	0.082	0.36				
S45									0.27	1.2	0.14	0.61	0.021	0.092				
SJ-7 ¹					0.35	1.5												
EG-1 ¹	0.77	0.19	0.82	0.21	0.08	0.02	0.04	0.01	0.07	0.02								
EG-2 ¹	1.506	0.377	0.661	0.165	0.240	0.060	0.036	0.009	0.218	0.054								
EG-3 ¹	1.77	0.44	1.12	0.28	2.42	0.60	0.06	0.01	0.12	0.03								
EG-4 ¹	0.176	0.044	0.111	0.028	0.240	0.060	0.006	0.001	0.012	0.003								
EG-5 ^{1*}	1.19	0.30	0.52	0.13	0.19	0.05	0.03	0.01	0.17	0.04								
EG-6 ^{1*}	25.11 0	6.278	5.411	1.353	1.960	0.490	0.292	0.073	1.782	0.446								

ALLOWABLE HAPS EMISSIONS FROM TEMPO, Table has the most common HAPS – it is not inclusive of all HAPS that might be entered in TEMPO. NA

POTENTIAL HAPS EMISSIONS FROM TEMPO, Table has the most common HAPS – it is not inclusive of all HAPS that might be entered in TEMPO. NA

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