Cover Sheet: Application for Coal Mining and Reclamation Operations

Applicant: Peabody Coulterville Mining, LLC
Name of Company, Corporation, Partnership or Individual. **[1777.11]**

AVS ID: *(Optional)* 250184

Applicant is a: [X] Corporation [ ] Partnership [ ] Sole Proprietor

[ ] Association or other Business Entity **[1778.13(a)]**

Mine Name: Gateway Mine, Central Prep
Address/PO P.O. Box 369, 12968 State Route 13
City: Coulterville
State: IL
Zip Code: 62237
Email Address:
Phone Number:
Fax Number:
Tax ID/FEIN:

Application Type: [ ] New [ ] MUF
[X] Existing Permit No(s). 426, 160, 225, 53
[X] Sig. Rev No. _____ [ ] Renewal [ ] Transfer No. ___
[ ] IBR [ ] SIBR
[ ] IPR

Type of Operation: [X] Surface [X] Underground [ ] Carbon Recovery

Mine Safety Health Administration Information:

MSHA ID Number 11-02546 **[1778.13(d)(1)]**
Date of Issuance _____

List the Mine Safety and Health Administration (MSHA) number(s) for all mine associated structures that require MSHA approval. **[1778.13(g)]**

Structure Type	Structure Name	MSHA No.
Coal Fine Refuse Impoundment	Gateway Mine Prep Cell 5, Phase II	1211-IL08-02546-08

Illinois Environmental Protection Agency Information:

Is application to be used as an application for an NPDES and/or Subtitle D?

☒ YES ☐ NO

NOTE: If this is an application for an NPDES permit, the Consolidated Permits Program, Application Form 2C (renewal), Form 2D (new), or Form 2E (sanitary) must be completed.

If YES, check the appropriate box below:

☒ IEPA Subtitle D State Permit
☐ NPDES *(New)*
☐ NPDES *(Renewal)*
☐ NPDES *(Modification)*

☒ I waive my right of the 90-day permit issuance deadline as required by Section 39(a)(4) of the Illinois Environmental Protection Act and 35 Ill. Adm. Code 309.225(c) of the Illinois Pollution Control Board Rules and Regulations.

Affidavits, Certifications, Insurance Certificates, Newspaper Notice, Financial Assurance. The applicant shall attach the appropriate affidavits required for the type of operations proposed, a draft public notice, and a valid certificate of insurance.

Check and attach the completed documents for the proposed operations, if applicable:

	Underground Mining Affidavit
	Planned Subsidence Mitigation Right of Entry Affidavit
	Underground Slurry Disposal Affidavit
	Public Land Survey Monuments Certification
X	Engineering Certification
	Technical Data Information Sheet
	Occupied Dwelling Buffer Zone Waiver

Complete below and attach the draft public notice for review. **[1778.21].**

X	

Proof of general liability insurance from an authorized provider (licensed to write from the Illinois Department of Insurance), Performance bond

X	Certificate of Insurance **[1778.18, 1817.121(c)(3)]**
	Evidence of required bond **(Renewals only) 1774.15**

☒ I waive the time limits for the Department to make its final permit decision pursuant to 62 Ill. Adm. Code 1773.19(a)(2)

I, James Boswell ,Authorized Representative , under penalties
(Signature, Title)

of perjury, declare that I have examined this application, including the accompanying statements and documents, and that, to the best of my knowledge, it is true and correct. I also certify that all printed copies of this application provided to the Department and County Clerk(s) are identical. **(Signer must be at least a Vice-President or duly authorized representative)**

Dated: 4/23/21

Description of Proposed Permitting Action:

Describe in sufficient detail the proposed activities. The information should summarize the requested permitting action to assist the Department in determining the scope and magnitude of the proposal.

Peabody Coulterville Mining, Gateway Mine, is proposing Phase 2 of Construction for Refuse Cell 5. The construction plan and impoundment designs completed by NPN Environmental Engineers are presently under review by MSHA District 8 and ILDNR Office of Water Resources. The application provided here will incorporate the Phase 2 Construction Plan with ILDNR OMM Permit #426 and adjacent Permits #160, #53 and #225. Proposed is a vertical raise in embankment elevation of Cell 5 to 585 ft amsl. The final embankment will extend east and abut with Cell 3 on the north end and Cell 1 on the south. Final pool of Cell 5 will cover Cell 4 entirely. The construction project is located entirely within the currently permitted area.

Application Part Inventory:

Application Part	Application Part Title	Indicate with an "X" all Parts modified with this submittal
1.0	**Administrative Information**	
1.1	General Information	X
1.2	Acreage and Timetable	X
1.3	Ownership and Control Information	X
1.4	Violation History	X
1.5	Property Ownership	X
2.0	**Pre-Mining information**	
2.1	Pre-Mining Land Use Information	
2.2	Pre-Mining Soils Information	
2.3	Areas Where Mining is Limited or Prohibited	
2.4	Public Parks, Historic Properties	
2.5	Valid Existing Rights (VER) - Good Faith/All Permits Standard	
2.6	Valid Existing Rights (VER) - Needed for and Adjacent Standard	
2.7	Valid Existing Rights (VER) - Standards for Mine Roads	
3.0	**Mining Operations Plan**	
3.1	General Description of Operations	X
3.2	Description of Mine Facilities	X
3.3	Signs and Markers	
3.4	Soil and Overburden Handling and Protection	X
3.5	Lateral Support	
3.6	Surface Mining Near Underground Mining	
3.7	Existing Structures	
3.8	Transportation Facilities	
3.9	Non-Coal Mine Waste Material	
3.10	Coal Preparation	X
3.11	Coal Processing Waste and Underground Development Waste	
3.12	Coal Refuse Disposal Area	X
3.13	Air Pollution Control Plan	
3.14	Fire Control Plan	
4.0	**Hydrologic and Geologic Information**	
4.1	Regional Characteristics	X
4.2	Hydrogeologic Information	X
4.3	Area Specific Characteristics	X
4.4	Ground Water Information	X

4.5	Ground Water Monitoring Program	X
4.6	Surface Water Information	X
4.7	NPDES Monitoring Program	X
4.8	Protection of Hydrologic Balance	X
4.9	Preventative and Remedial Measures Plan	X
4.10	Liners	X
4.11	Coal Combustion Materials	
5.0	**Drainage Control**	
5.1	Pre-Mining Drainage Patterns Mapping	
5.2	General Drainage Control Description	
5.3	Conveyance Ditch Design	
5.4	Impoundments	
6.0	**Streams**	
6.1	Disturbance Information	
6.2	Stream Information	
6.3	Stream Buffer Variance	
6.4	Streams Outside Permit Boundary	
6.5	Existing Stream Locations	
6.6	Temporary Stream Diversions	
6.7	Permanent Stream Diversions	
6.8	Culverts and Crossing of Non-Diverted, Temporary, and/or Permanent Stream Channels	
6.9	Stream Buffer Zone	
7.0	**Fish and Wildlife**	
7.1	Pre-Mining Fish and Wildlife Resources	
7.2	Threatened and Endangered Species	
7.3	General Fish and Wildlife Protection and Enhancement Measures	
8.0	**Cropland Capability Soils**	
8.1	High Capability Post-Mining Land Use	
8.2	Pre-Mining Prime Farmland Soils	
8.3	Prime Farmland Soil Handling	
8.4	Prime Farmland Reclamation Plan and Map	
9.0	**Reclamation Plan**	
9.1	Post-mining Land Uses	X
9.2	Backfilling and Grading	X
9.3	Shaft, Slope, and Borehole Sealing	
9.4	Abandonment and Closure of Refuse Disposal Areas	X
9.5	Bond Estimation	X
10.0	**Revegetation and Reclamation**	
10.1	Revegetation of Drainage Control Ditches	
10.2	Revegetation of Faces of Embankments	
10.3	Revegetation of Soil Stockpiles	
10.4	Revegetation of Refuse Disposal Facilities	X
10.5	Pasture Reclamation Plan	
10.6	Fish and Wildlife Herbaceous Reclamation Plan	
10.7	Fish and Wildlife Woody Reclamation Plan	
10.8	Fish and Wildlife Wetland Reclamation Plan	
10.9	Fish and Wildlife Water and/or Developed Water Resources Reclamation Plan	
10.10	Forest Reclamation Plan	
10.11	Industrial/Commercial Reclamation Plan	
10.12	Recreation Reclamation Plan	
10.13	Habitat Diversification in Cropland	

11.0	**Blasting**	
11.1	Proposed Blasting	
11.2	Surface Mine Blasting	
11.3	Underground Mine Blasting	
12.0	**Shaft, Slope, and Miscellaneous Borehole Construction**	
12.1	Shafts and/or Slopes	
12.2	Miscellaneous Boreholes	
13.0	**Underground Extraction**	
13.1	General Shadow Area Information	
13.2	Unplanned Subsidence Control Plan	
13.3	Planned Subsidence Control Plan	
13.4	Subsidence Damage Mitigation	
13.5	Water Supplies	
13.6	Auger Mining	
14.0	**Disposal of Coal Waste in Underground Workings**	
14.1	MSHA Approval	
14.2	Waste Material Description	
14.3	Pneumatic Injection	
14.4	Surface Disturbance Operations	
14.5	Underground Workings Disposal Area	
14.6	Circuitry of the Disposal Operation	
14.7	Subsidence Control	
14.8	Hydrologic Balance Protection	
15.0	**Coal Combustion Materials**	
15.1	Coal Combustion By-Products (CCB)	
15.2	Coal Combustions Waste (CCW)	

POWER OF ATTORNEY

PEABODY COULTERVILLE MINING, LLC an Illinois limited liability company, hereby appoints **James Boswell**, as attorney-in-fact to represent the above named company before any office of the Illinois Environmental Protection Agency; the Illinois Department of Natural Resources; U. S. Department of Interior, Office of Surface Mining; Mine Safety and Health Administration; U.S. Army Corp of Engineers, in any proceeding, application or permit pending before such state or government agency or department related or incidental to coal mining activity or reclamation of mined property owned or operated by Peabody Coulterville Mining, LLC.

The attorney-in-fact shall, subject to revocation, have full authority to receive confidential information and full power to perform, on behalf of the company and with respect to the above matters, including any of the following acts: (1) the ability to sign applications, oaths, verifications, permits or any related or incidental documents or instruments thereto on behalf of the company with such agencies and departments; (2) the ability to accept or decline the payment of any monetary amounts due to said company under any governmental program; (3) the ability to sign forms under oath verifying the contents of any application or permit; (4) the ability to make binding representations and warranties on behalf of the company as to the accuracy and truthfulness of the contents of any application(s), permit(s) or in any proceedings related to same; and (5) the ability to execute any other documents or instruments necessary to effectuate same. Such agency or department shall be entitled to rely upon the signature of such attorney-in-fact as being the duly authorized agent or representative of the company for such permit, application, document or instrument being signed, and any copy of this power of attorney shall have the same binding effect as if the executed original.

PEABODY COULTERVILLE MINING, LLC

By: _____

Marc E. Hathhorn

Its: President

Date: 2-Apr-2019

ENGINEERING CERTIFICATION (Form A)

Permit No(s): 53, 160, 225, 426 *(Leave blank if number has not been issued)*

Submittal Name: Gateway Mine Refuse Cell 5 Phase 2 Submittal Date: 4/23/21

1. _____ I hereby certify under penalty of law that **all technical submissions provided within this application** were done by me or under my direct supervision; that to the best of my knowledge and belief, that such technical submissions have been completed in accordance with 62 Ill. Adm. Codes 1700 through 1850 and generally accepted standards and practices of my profession; and the information is accurate and complete. I further certify that all applicable maps and/or drawings have been sealed in accordance with the Professional Engineering Act 225 ILCS 325/15.

2. X I hereby certify under penalty of law that the **specific technical submissions itemized below and provided within this application** were done by me or under my direct supervision; that to the best of my knowledge and belief, that such technical submissions have been completed in accordance with 62 Ill. Adm. Codes 1700 through 1850 and generally accepted standards and practices of my profession; and the information is accurate and complete. I further certify that all applicable maps and/or drawings have been sealed in accordance with the Professional Engineering Act 225 ILCS 325/15.

INDIVIDUAL P.E. CERTIFICATION

Ann M. Nelson
Name

062-060721
Illinois Registration Number

Peabody Energy
Firm

566 Dickeyville Rd.
Lynnville, IN 47613
Address

(812) 922-1046
Phone Number

LICENSED PROFESSIONAL ENGINEER
ANN. M. NELSON
062-060721
STATE OF ILLINOIS
(SEAL)

11-30-21
Lic. Exp. Date

Ann Nelson
Signature

4-23-21
Date

PROFESSIONAL DESIGN FIRM CERTIFICATION

Complete if applicable. If not, respond N/A.

_____ As an employee of a Professional Design Firm as defined by the Illinois Department of Financial and Professional Regulation, I certify that the professional design firm is registered and in good standing with the Illinois Department of Financial and Professional Regulation.

Professional Design Firm Name

Professional Design Firm Number

Lic. Exp. Date

Itemized Technical Submissions

(Complete if Option 2 was selected on Page 1)

DOCUMENT/DRAWING NAME	DOCUMENT/DRAWING IDENTIFICATION NO./LOCATION
Hydrogeologic Information	Map 4SF
Operations Plan	Map 6SF
Refuse Cell 5 Phase 2 Cross-sections	
Approved Post-Mining Land Uses Refuse Cell 5 Phase 2	Map 7SF
Proposed Post-Mining Land Uses Refuse Cell 5 Phase 2	Map 7SF

PUBLIC NOTICE
Intent To Mine

Peabody Coulterville Mining, LLC, 701 Market St. St. Louis, MO 63101, has filed an application with the Department of Natural Resources, Office of Mines and Minerals for Revision No.1 to Mining Permits No. 53, No.160, No. 225 and No. 426 to be issued for the Gateway Mine Refuse Cell No.5 Phase 2. The application addresses a design modification of existing Refuse Cell No. 5. Gateway Mine Refuse Cell No.5 site is located approximately 2 1/2 miles southwest of Coulterville, Illinois. The proposed permit revision boundary is located within the existing boundaries of Permits #426, #225, #160 and #53 approximately described as follows: Ziegler Mine Road defines the west permit boundary, Sarah Road the south permit boundary and Jean Road the north permit boundary. The east permit boundary is contiguous with existing Gateway Mine permitted facilities. The property legal description is: the SE ¼ of the SE ¼ of Section 16, portions of the W ½ of the SW ¼ of Section 15, portions of the NE ¼ of the NE 1/4 and SE ¼ of the NE ¼ of Section 21, portions of the W ½ of the NW ¼ and SE ¼ of the NW ¼ of Section 22, T4S, R5W of Coulterville Township, Randolph County. Copies of the application are available for public inspection at the office of the Randolph County Clerk, at the County Courthouse in Chester, Illinois. Written comments, objections or requests for informal conferences or public hearings may be submitted to the Illinois Department of Natural Resources, Office of Mines and Minerals, 1 Natural Resource Way, Springfield, IL 62702-1271.

PART 1: Administrative Information

1.1 General Information.

1.1.1 Applicant: Peabody Coulterville Mining LLC

Applicant is a: [X] Corporation [ ] Partnership [ ] Sole Proprietor
[ ] Association or other Business Entity **[1778.13(a)]**

Individual Contact: **[1778.13(b)]** Andrew Nelson, Permit Manager
(Name and Title)

Address/PO Box:	566 Dickeyville Rd.
City:	Lynnville
State:	IN
Zip Code:	47619
Email Address:	anelson@peabodyenergy.com
Phone Number:	812-922-1045
Fax Number:	
Tax ID/FEIN No.	20-0217834

1.1.2 Resident Agent who will accept service of process for the applicant: **[1778.13(b)]**

Company: Illinois Corporation Service Company
Individual Contact:
(Name and Title)

Address/PO Box:	801 Adlai Stevenson Dr.
City:	Springfield
State:	IL
Zip Code:	62703
Email Address:	
Phone Number:	
Fax Number:	
Tax ID/FEIN No.	

1.1.3 Who will be the operator at the permit site? **[1778.13(b)]**

[ ] Applicant [X] Other/Contract operator

If the operator is not the applicant, then complete Table 1.3.1 for the company/entity.

1.1.4 Who will pay Abandoned Mine Land Reclamation fees? **[1778.13(b)]**

[ ] Applicant [X] Other/Contract operator

1.2 Acreage and Timetable.

Pit or Portal No./Name	County	Sec(s)	Twp	Range	Total Acres
Gateway Mine	Randolph	15	T4S	R5W	230.55
Refuse Cell No. 5		16			
Phase 2		21			
		22			
				TOTAL:	230.55

Shadow Area	County	Sec(s)	Twp	Range	Total Acres
				TOTAL:	

1.2.1 Indicate type of disturbance from mining and acreage associated with each type. **[1780.11/1784.11]**

Type of Disturbance:	**Acres**
Surface Mined Area	
Processing Areas & Support Facilities	230.55
Undisturbed Areas (optional)	
TOTAL ***(must equal total acres being permitted)***	
Shadow Area	

1.2.2 Indicate on the Pre-Mining Land Use Map where future permits for coal refuse piles, coal waste impoundments, or other surface facilities would be located. Provide a general statement that future facilities will be located X number of miles from the current permit. **[1778.17(a); 1779.24(c)]**

Unknown, Any future refuse impoundment would be permitted contiguous to the existing refuse disposal facilities.

1.3 Ownership and Control Information.

1.3.1 Complete Table 1.3.1 to identify all owners/controllers of the applicant. Separate sheet/table shall be provided for each entity or individual deemed to be an owner/controller of the applicant.

Ownership or control is evidenced by:

- Being a permittee of a surface coal mining operation; or
- Based on instruments of ownership or voting securities, owning of record in excess of fifty (50) percent of an entity; or
- Having any other relationship which gives one person authority directly or indirectly to determine the manner in which an applicant, an operator, or other entity conducts surface coal mining operations

The following relationships are presumed to constitute ownership or control unless a person can demonstrate that the person subject to the presumption does not in fact have the authority directly or indirectly to determine the manner in which the relevant surface coal mining operation is conducted.

- Being an officer or director of an entity; or
- Being the operator of a surface coal mining operation; or
- Having the ability to commit the financial or real property assets or working resources of an entity;
- Being a general partner in a partnership; or
- Based on the instruments of ownership or the voting securities of a corporate entity, owning of record ten (10) through fifty (50) percent of the entity; or
- Owning or controlling coal to be mined by another person under a lease, sublease or other contract and having the right to receive such coal after mining or having authority to determine the manner in which that person or another person conducts a surface coal mining operation. **[1773.5, 1778.13(c)(1) to (c)(3)]**

1.3.2 Complete Table 1.3.2 for surface coal mining and reclamation operations, within the five (5) years preceding the date of the application for associated with: **[1778.13(c)(4)/1778.13(c)(5)]**

- Each Owner/Controller identified in Table 1.3.1
- The applicant.

1.4 Violation History.

1.4.1 Has the applicant, any subsidiary, affiliate, or persons controlled by or under common control with the applicant, had Federal, State, or Tribal coal mining permit suspended or revoked in the last five (5) years preceding the date of submission of the application? **[1778.14(a)(1)]**

☐ Yes ☒ No

1.4.2 Has the applicant, any subsidiary, affiliate, or persons controlled by or under common control with the applicant, had forfeited a performance bond or similar security deposited in lieu of bond? **[1778.14(a)(2)]**

☐ Yes ☒ No

If YES to either Questions 1.4.1 or 1.4.2, the applicant shall complete Table 1.4 for any permit/company associated with permit suspension, revocation or bond forfeiture. **[1778.14(a) and (b)]**

1.4.3 The applicant shall complete Table 1.4.3 for all violations received by the applicant or any one owning/controlling the applicant as provided in Table 1.3.1 during the three (3) year period preceding the application date. **[1778.14(c)]**

For any outstanding violation or violation under appeal listed in Table 1.4.3, the applicant shall provide supporting documentation showing good faith efforts for the violation from the issuing agency, or in the case of appeals provide documentation of current proceedings. **[1773.15(b), 1778.14(c)]**

NOTE: Provide as an Attachment to Part 1.4.3.

1.5 Property Ownership.

1.5.1 Complete Table 1.5.1 for (1) each legal or equitable owner of record, (2) each holder of leasehold interest, and (3) any purchaser of record under a real estate contract for the surface and mineral property within the proposed permit boundary. **[1778.13(e), 1778.15(a)]**

If the proposed permit is for a surface mine where the private mineral estate has been severed from the private surface estate, applicant must also provide the Department with:

- A copy of the written consent of the surface owner to the extraction of coal by surface mining methods; or
- A copy of the conveyance that expressly grants or reserves the right to extract the coal by surface mining methods; or
- If the conveyance does not expressly grant the right to extract the coal by surface mining methods, provide the Department with documentation that, under the applicable State law, the applicant has the legal authority to extract the coal by surface mining methods. **[1778.15(b)]**
- See Part 1.5.3, below, for additional requirements to uncontrolled properties.

NOTE: Provide as an Attachment to Part 1.5.1.

1.5.2 Complete Table 1.5.2 for any owner of record for property (surface and subsurface) contiguous to any part of the proposed permit boundary. **[1778.13(f)]**

Does the applicant have an interest in any lands, options or pending bids on interest for lands which are contiguous to the proposed permit area?

☐ Yes ☒ No

If YES, the applicant shall indicate in Table 1.5.2 all lands, interest in lands, options, or pending bids on interests held or made by the applicant for lands contiguous to the area described in the permit application. **[1778.13(h)]**

Upon request by the applicant, this information may be held in confidence by the Department, if not on public file. Does the applicant wish any of the above information to be held confidential?

☐ Yes ☒ No

If YES, the applicant shall identify which information is to be held confidential in its statement. **[1778.13(h)]**

1.5.3 Complete Table 1.5.3 for any owner of record for property (surface and subsurface) identified in Table 1.5.1 and shown on the Pre-Mining Land Use Map identified in 1.5.4, not owned by the applicant, identifying the documents and legal rights claimed to enter and mine.

All properties identified in Table 1.5.1 that the applicant does not have a legal right to enter and begin mining operations shall require submission of a Property Ownership Waiver form for each property identified for the application to be considered administratively complete [see Operator Memorandum No. 2011-01]

NOTE: Provide as an Attachment to Part 1.5.3.

1.5.4 Delineate all boundaries of lands and names of present owners of record of those lands, both surface and subsurface, included in or contiguous to the permit area on the Pre-Mining Land Use Map. The map shall also show lands within the permit area that are controlled properties (i.e. applicant is claiming legal right to enter and begin surface coal mining and reclamation operations) versus uncontrolled properties (i.e. applicant does not yet have the legal right of entry). **[1779.24(a) and (b)]**

Table 1.3.1 Ownership and Control

[Complete a separate Table for each entities own/controlling company]

Peabody Midwest Mining LLC

Company/Individual	Tax ID/SSN (Optional)	Position/Title, Ownership Type	Extended Desc.	% Ownership	Begin Date	End Date
Peabody Midwest Operations LLC	20-3405619	Owner Peabody Midwest Mining LLC		100%	04/03/17	
Bruer, Robert F.		Vice President			10/05/15	
Kimery, Drew W.		President			02/03/20	
Jarboe, Scott T.		Assistant Secretary			02/03/20	
Lutkewitte, Joseph		Assistant Treasurer			09/11/17	
Tichenor, James A.		Vice President and Treasurer			09/10/12	
Waller, Eric R.		Secretary			02/03/20	
West, Bryce G.		Vice President			04/30/20	

Table 1.3.1 Ownership and Control

[Complete a separate Table for each entities own/controlling company]

Peabody Midwest Mining LLC

Company/Individual	Tax ID/SSN (Optional)	Position/Title, Ownership Type	Extended Desc.	% Ownership	Begin Date	End Date

Table 1.3.1 Ownership and Control

[Complete a separate Table for each entities own/controlling company]

Peabody Coulterville Mining LLC

Company/Individual	Tax ID/SSN (Optional)	Position/Title, Ownership Type	Extended Desc.	% Ownership	Begin Date	End Date
Peabody Coulterville Mining LLC	31-1566354	Applicant				
Peabody Midwest Operations LLC	20-3405619	Owner Peabody Coulterville Mining LLC		100%	04/03/17	
Bruer, Robert F.		Vice President			10/13/15	
Jarboe, Scott T.		Assistant Secretary			02/03/20	
Lutkewitte, Joseph		Assistant Treasurer			09/11/17	
Tichenor, James A.		Vice President and Treasurer			09/10/12	
Waller, Eric R.		Secretary			02/03/20	

Table 1.3.1 Ownership and Control

[Complete a separate Table for each entities own/controlling company]

Peabody Coulterville Mining LLC

Company/Individual	Tax ID/SSN (Optional)	Position/Title, Ownership Type	Extended Desc.	% Ownership	Begin Date	End Date

Table 1.3.1 Ownership and Control

[Complete a separate Table for each entities own/controlling company]

Peabody Midwest Operations LLC

Company/Individual	Tax ID/SSN (Optional)	Position/Title, Ownership Type	Extended Desc.	% Ownership	Begin Date	End Date
Peabody Midwest Operations LLC	20-3405619					
Peabody Operations Holding LLC	26-3723890	Owner Peabody Midwest Operations LLC		100%	11/03/09	
Bruer, Robert F.		Vice President			10/13/15	
Kimery, Drew W.		President			02/03/20	
Jarboe, Scott T.		Assistant Secretary			02/03/20	
Lutkewitte, Joseph		Assistant Treasurer			09/11/17	
Tichenor, James A.		Vice President and Treasurer			09/10/12	

Table 1.3.1 Ownership and Control

[Complete a separate Table for each entities own/controlling company]

Peabody Midwest Operations LLC

Company/Individual	Tax ID/SSN (Optional)	Position/Title, Ownership Type	Extended Desc.	% Ownership	Begin Date	End Date

Table 1.3.1 Ownership and Control

[Complete a separate Table for each entities own/controlling company]

Peabody Operations Holding LLC

Company/Individual	Tax ID/SSN (Optional)	Position/Title, Ownership Type	Extended Desc.	% Ownership	Begin Date	End Date
Peabody Operations Holding LLC	26-3723890					
Peabody Investments Corp.	20-0480084	Owner Peabody Operations Holding LLC		100%	11/14/08	
Bruer, Robert F.		Vice President			10/13/15	
Kimery, Drew W.		President			02/03/20	
Jarboe, Scott T.		Assistant Secretary			02/03/20	
Lutkewitte, Joseph		Assistant Treasurer			09/11/17	
Tichenor, James A.		Vice President and Treasurer			09/10/12	

Table 1.3.1 Ownership and Control

[Complete a separate Table for each entities own/controlling company]

Peabody Operations Holding LLC

Company/Individual	Tax ID/SSN (Optional)	Position/Title, Ownership Type	Extended Desc.	% Ownership	Begin Date	End Date

Table 1.3.1 Ownership and Control

[Complete a separate Table for each entities own/controlling company]

Peabody Investments Corp.

Company/Individual	Tax ID/SSN (Optional)	Position/Title, Ownership Type	Extended Desc.	% Ownership	Begin Date	End Date
Peabody Investments Corp.	20-0480084					
Peabody Energy Corp.	13-4004153	Owner Peabody Investments Corp.		100%	12/16/04	
Baltz, Eric J.	Vice President - Financial and Capital Planning				05/15/15	
Bettis, Brent A.	Vice President CISO & Technology Architecture				03/01/19	
Bruer, Robert F.		Vice President, Tax Planning & Compliance			03/01/19	
Capdeboscq, Allen T.	Senior Vice President - Contract Management & Marketing Support				03/01/19	
Constantine, Michelle E.		Vice President Corporate Communications			03/01/19	
Flannigan, Michael J.	Senior Vice President, Global Government Affairs				05/15/15	
Forkin, Patrick J.	Senior Vice President Corporate Development				03/01/19	
Hall, William R.	Senior Vice President- Western Surface Operations				09/01/19	
Hathhorn, Marc E.		President-Australia			08/07/19	
Heaton, Darral G.		Vice President - Human Resources			03/01/19	
Jarboe, Scott	Senior Vice President & General Counsel - Corporate and Assistant Secretary				03/01/19	
Kacich, Gary T.		Vice President Internal Audit			12/01/16	
Kellow, Glenn L.		President & Chief Executive Officer			05/15/15	
Kim, Chino		Vice President Peabody Business Services			08/18/15	
Lutkewitte, Joseph F.	Senior Manager Treasury Operations & Assistant Treasurer				03/01/19	
Meintjes, Charles F.	Executive Vice President - Corporate Services and Chief Commercial Officer				04/03/17	
Nadolny, Julie A.		Director			01/14/15	
Nadolny, Julie A.		Vice President - Total Rewards			05/15/15	
Pedersen-Howard, Matthew J.	Vice President Global and Americas Safety & Health				03/01/19	
Richard, Paul V.	Senior Vice President & Chief Human Resources Officer				03/01/19	
Risner, Brandon K.		Vice President Technical Services			09/15/19	
Schulte, Daniel		Assistant Treasurer Capital Markets			03/01/19	
Siebers, Michael	Vice President Sales & Marketing Americas West				08/18/15	
Spurbeck, Mark A.		Director			03/01/19	

Table 1.3.1 Ownership and Control

[Complete a separate Table for each entities own/controlling company]

Peabody Investments Corp.

Company/Individual	Tax ID/SSN (Optional)	Position/Title, Ownership Type	Extended Desc.	% Ownership	Begin Date	End Date
Spurbeck, Mark A.	Senior Vice President & Chief Accounting Officer				03/01/19	
Tharenos, Alice		Vice President Commercial Strategies			03/01/19	
Tichenor, James A.		Vice President and Treasurer			09/10/12	
Wagner, Paul M.	Vice President Supply Chain Management Americas				08/18/15	
Walker, Christopher S.	Vice President Contract Management & Marketing Support				08/18/15	
West, Bryce G.	Vice President Environmental Services - Americas				08/18/15	
Williamson, Kemal		President - Americas			11/15/12	
Wittenauer, Chirstopher W.	Vice President & General Counsel Americas and State Government Relations				03/01/19	
Young, Lina		Senior Vice President & CIO/Peabody Business Services			08/18/15	

Table 1.3.1 Ownership and Control

[Complete a separate Table for each entities own/controlling company]

Peabody Energy Corp.

Company/Individual	Tax ID/SSN (Optional)	Position/Title, Ownership Type	Extended Desc.	% Ownership	Begin Date	End Date
Peabody Energy Corp.	13-4004153					
Algaze, Samantha		Director			2/20/2020	
Bertone, Andrea		Director			02/21/2019	
Bruer, Robert F.		Vice President, Tax Planning and Compliance			07/01/2015	
Champion, William H.		Director			7/15/2020	
Chirekos, Nicholas J.		Director			04/03/2017	
Flannigan, Michael J.		Senior Vice President, Global Government Affairs			05/05/2015	
Forkin III, Patrick J.		Senior Vice President, Corporate Development			05/10/2018	
Gorman, Stephen E.		Director			04/03/2017	
Jarboe, Scott T.		Chief Legal Officer &Corporate Secretary			03/06/2020	
Kellow, Glenn L.		Director			01/22/2015	
Kellow, Glenn L.		President & Chief Executive Officer			05/04/2015	
Laymon, Joe W.		Director			04/03/2017	
Malone, Robert A.		Director			07/23/2009	
Malone, Robert A.		Chairman			01/01/2016	
Meintjes, Charles F.	Executive Vice President & Chief Operating Officer				07/09/2019	
Miller, David J.		Director			02/02/2020	
Hathhorn, Marc E.		President- Australia Operations			08/07/2019	
Richard, Paul V.	Senior Vice President & Chief Human Resource Officer				11/27/2017	
Schulte, Daniel L.		Assistant Treasurer Capital Markets			05/09/2019	
Siebers, Michael L.	Senior Vice President, Sales and Marketing- Americas				05/10/2018	
Spurbeck, Mark A.	or Vice President, Interim Chief Financial Officer, Principal Financial Officer and Principal Accounting Officer				01/06/2020	
Sutherlin, Michael W.		Director			01/22/2014	
Waller, Eric R.		Vice President, Deputy General Counsel-Governance, Securities, Corporate & Finance and Assistant Corporate Secretary			05/07/2020	
Williamson, Kemal		President - U.S. Operations			11/15/2012	

Table 1.3.1 Ownership and Control						
[Complete a separate Table for each entities own/controlling company]						
Peabody Energy Corp.						
Company/Individual	**Tax ID/SSN (Optional)**	**Position/Title, Ownership Type**	**Extended Desc.**	**% Ownership**	**Begin Date**	**End Date**
Yeates, Darren		Director			02/20/2020	
Young, Lina A.	Senior Vice President & Chief Information Officer/ Peabody Business Services				5/10/2018	

TABLE 1.4.3 Violations for
Applicant and Owners/Controllers of the Applicant Rev. 4/22/2021

Issuing Agency	State and Permit No. or MSHA Number	State Violation No. or MSHA Violation No.	Issue Date	Name of Company or Person to Whom Violation Issued	Description of the Violation	Date, Location and Type of Administrative or Judicial Proceeding	Violation Status	Abatement Actions
U.S. Office of Surface Mining	AZ-0001E	N19-020-532-001	8/22/19	Peabody Western Coal Co.	A shot occurred on 8/6/2019	none	Abated	Blaster self reported
					which exceeded the allowable			the exceedance to
					charge weight of explosives			OSMRE on 8/21/2019,
					detonated in one 8-millisecond			no corrective action
					period based on the appropriate			can be taken other
					scale distance equation for the			than reporting.
					blast. Applies to J21 pit ramp 38			
					area.			

Issuing Agency	State and Permit No. or MSHA Number	State Violation No. or MSHA Violation No.	Issue Date	Name of Company or Person to Whom Violation Issued	Description of the Violation	Date, Location and Type of Administrative or Judicial Proceeding	Violation Status	Abatement Actions
Indiana Department of Natural Resources	S-00335	N80914-S-335	9/14/18	Peabody Midwest Mining, LLC	Failure to monitor surface water stream point 1SW-10 according to the approved compliance water monitoring plan.	none	Terminated	Establish ongoing monitoring for stream site location 1SW-10 as described in Part VI.2.a of the S-335-3 Permit

Issuing Agency	State and Permit No. or MSHA Number	State Violation No. or MSHA Violation No.	Issue Date	Name of Company or Person to Whom Violation Issued	Description of the Violation	Date, Location and Type of Administrative or Judicial Proceeding	Violation Status	Abatement Actions
Indiana Department of Natural Resources	S-00335	N1022-S-335	10/22/18	Peabody Midwest Mining, LLC	Failure to conduct blasting operations so that the maximum airblast limit of 133dB I snot exceeded at a dwelling, public building, school, church or community or institutional building	none	Terminated	Conduct blasting operations in accordnance with the regulations and the approved permit. Conduct blasting operations so that the maximum airblast limit of 133dB is not exceeded at a dwelling.

Issuing Agency	State and Permit No. or MSHA Number	State Violation No. or MSHA Violation No.	Issue Date	Name of Company or Person to Whom Violation Issued	Description of the Violation	Date, Location and Type of Administrative or Judicial Proceeding	Violation Status	Abatement Actions
Indiana Department of Natural Resources	S-374	N00327-S-374	3/27/20	United Minerals Company LLC	Failure to conduct active surface coal mining and those activities necessary to facilitate minin only on those lands specifically permitted/bonded.	none	Terminated	Submit and have approved an incidental Boundary Revision and bond the areas where the surface has been disturbed by equipment outside the permitted and/or bonded areas.

Issuing Agency	State and Permit No. or MSHA Number	State Violation No. or MSHA Violation No.	Issue Date	Name of Company or Person to Whom Violation Issued	Description of the Violation	Date, Location and Type of Administrative or Judicial Proceeding	Violation Status	Abatement Actions
Indiana Department of Natural Resources	S-00361	N00312-S-361	3/12/20	United Minerals Company LLC	Failure to stabilize and protect exposed topsoil from wind and water erosion	none	Terminated	Repair erosion Seed and mulch the area

Issuing Agency	State and Permit No. or MSHA Number	State Violation No. or MSHA Violation No.	Issue Date	Name of Company or Person to Whom Violation Issued	Description of the Violation	Date, Location and Type of Administrative or Judicial Proceeding	Violation Status	Abatement Actions
Indiana Department of Natural Resources	U-00023	N80124-U-023	1/24/18	Peabody Midwest Mining, LLC	Failure to mine according to plan as outlined in the permit finding General Permit Requirement #4 and #5. Failed to install monitoring Piezometer in adjacent old works Prior to advance of mining unit.	none	Terminated	Install monitoring Piezometer. Monitor and report Water elevation. Notify MSHA Dist. 8 of Minng in proximity to inundated works.

Issuing Agency	State and Permit No. or MSHA Number	State Violation No. or MSHA Violation No.	Issue Date	Name of Company or Person to Whom Violation Issued	Description of the Violation	Date, Location and Type of Administrative or Judicial Proceeding	Violation Status	Abatement Actions
Indiana Department of Natural Resources	S-00256	N90213-S-256	2/13/19	Peabody Midwest Mining, LLC	Failure to prevent discharge from all NPDES discharge locations in excess of 70mg/liter for the parameter of total suspended solids (TSS).	none	Terminated	Cease discharge of water that exceeds the maximum daily allowance for TSS.

Issuing Agency	State and Permit No. or MSHA Number	State Violation No. or MSHA Violation No.	Issue Date	Name of Company or Person to Whom Violation Issued	Description of the Violation	Date, Location and Type of Administrative or Judicial Proceeding	Violation Status	Abatement Actions
Indiana Department of Natural Resources	S-00335	N90625-S-335	6/25/19	Peabody Midwest Mining, LLC	Failure to submit as-built certifications for the designed Impoundment SB072	none	Terminated 7/23/2019	Recontruct pond so as to prevent short circuit and overtopping. Submit as-built

Issuing Agency	State and Permit No. or MSHA Number	State Violation No. or MSHA Violation No.	Issue Date	Name of Company or Person to Whom Violation Issued	Description of the Violation	Date, Location and Type of Administrative or Judicial Proceeding	Violation Status	Abatement Actions
Indiana Department of Natural Resources	S-00335-3	N00402-S-335	4/2/20	Peabody Midwest Mining, LLC	Failure to remove topsoil before any drilling, blasting, mining or other disturbance.	none	Terminated	Immediately cease the pumping of pit water using this method. Remove sediment deposited on the unremoved topsoil Remove the topsoil and replace it on final graded spoil or stockpile the topsoil, or disk, seed and mulch the area disturbed by the clean-up operations.

Issuing Agency	State and Permit No. or MSHA Number	State Violation No. or MSHA Violation No.	Issue Date	Name of Company or Person to Whom Violation Issued	Description of the Violation	Date, Location and Type of Administrative or Judicial Proceeding	Violation Status	Abatement Actions
Indiana Department of Natural Resources	S-00335-3	N00730-S-335	7/30/20	Peabody Midwest Mining, LLC	Failure to pass surface drainage from the disturbed area through an approved siltation structure before leaving the permit area.	none	Terminated	Immediately stop the water from the disturbed area from flowing into OFD066. Reconstruct the berm that is supposed to separate OFD066 and the active pit area, therefore preventing any future unapproved discharges.

Issuing Agency	State and Permit No. or MSHA Number	State Violation No. or MSHA Violation No.	Issue Date	Name of Company or Person to Whom Violation Issued	Description of the Violation	Date, Location and Type of Administrative or Judicial Proceeding	Violation Status	Abatement Actions
Indiana Department of Natural Resources	S-00360	N01201-S-360	12/1/20	Peabody Midwest Mining, LLC	Failure to conduct blasting operations so that the maximum airblast limit of 133dB is not exceeded at a dwelling, public building, school, church or community or institutional building.	none	Terminated 12/2/2020	Conduct blasting operations so that the maximum airblast limit of 133dB is not exceeded at a dwelling, public building, school, church or community or institutional building.

Issuing Agency	State and Permit No. or MSHA Number	State Violation No. or MSHA Violation No.	Issue Date	Name of Company or Person to Whom Violation Issued	Description of the Violation	Date, Location and Type of Administrative or Judicial Proceeding	Violation Status	Abatement Actions
Indiana Department of Natural Resources	S-00360	N10413-S-360	4/13/21	Peabody Midwest Mining, LLC	Failure to pass all surface drainage from the disturbed area through a siltation structure before leaving the bonded area.	none	Terminated 4/16/2021	Control all surface drainage from the disturbed area.

Issuing Agency	State and Permit No. or MSHA Number	State Violation No. or MSHA Violation No.	Issue Date	Name of Company or Person to Whom Violation Issued	Description of the Violation	Date, Location and Type of Administrative or Judicial Proceeding	Violation Status	Abatement Actions
Wyoming DEQ	569-T8	5881-18	10/31/18	Peabody	On October 1, 2018	none	Terminated	1. Submit a plan
Land Quality				Powder River	NARM initiated a cast		3/7/2019	that will be used in
Division				Mining LLC	blast that resulted in a		Plan to prevent	the future to
					citizen's complaint to		fugitive emissions	prevent fugitive
					the Administrator of the		submitted and approved	emissions(NOx)
					Wyoming DEQ LQD.		By Wyoming DEQ	from blasts
					The citizen's complaint			impacting
					stems from blasting			workforce and the
					emissions observed in			public both on and
					the vicinity of the Town		Permit revisions	off permit by Nov
					of Wright, WY. As a		to implement controls	20, 2018. 2. Submit
					result of citizen		to prevent fugitive	a permit revision
					complaints, the		emissions has been	that incoporates the
					Wyoming DEQ LQD		approved.	operational controls
					issued a violation.			used for preventing
								fugitive emissions
								(NOx fumes) from
								blasts impacting
								workforce and the
								public into the
								permit blasting plan
								by Dec 6, 2018.
								LQD will need to
								review and approve
								the operational
								control plans before
								they are submitted
								as a permit
								revision.

Issuing Agency	State and Permit No. or MSHA Number	State Violation No. or MSHA Violation No.	Issue Date	Name of Company or Person to Whom Violation Issued	Description of the Violation	Date, Location and Type of Administrative or Judicial Proceeding	Violation Status	Abatement Actions
Wyoming DEQ	569	5909-19	3/13/19	Peabody	On February 12, 2019 during a	none	Abatement actions	The native topsoils
Land Quality				Powder River	mine inspection, coal flyrock was		completed and fee	that were contaminated
Division				Mining LLC	discovered by LQD personnel		paid	were handpicked and
					on unstripped native topsoil.		Terminated 2/4/20	cleaned up after the
					The impacted area was surveyed			area was surveyed. LQD
					and encompassed an area of			reinspected the area
					unstripped topsoil 1,600 feet in			and determined the site
					length and 225 feet in width.			had been cleaned of
					LQD reviewed shot records for			coal flyrock and the
					six coal shots in the immediate			violation abated. LQD
					area. The investigation was			requests a Flyrock
					inconclusive as to the specific			Prevention Training
					cause of coal flyrock onto native			program be
					topsoil. The investigation did			implemented: 1) the
					conclude that the coal flyrock was			content approved by
					deposited by a coal shot or shots			LQD, 2) the length a
					and not by any other means.			minimum of two hours,
								3) all minesite blasters
								required to attend, and
								4) training documents
								and attendance lists
								be notarized and
								forwarded to LQD.
								Abatement to be
								completed by 6/3/19.

Issuing Agency	State and Permit No. or MSHA Number	State Violation No. or MSHA Violation No.	Issue Date	Name of Company or Person to Whom Violation Issued	Description of the Violation	Date, Location and Type of Administrative or Judicial Proceeding	Violation Status	Abatement Actions
Wyoming DEQ	240	5960-19	8/1/19	Peabody	On May 3, 2019, Rawhide Mine	none	Terminated	1) Provide LQD with a
Land Quality				Caballo	detonated a cast shot (Shot		12/10/2019	causation report for
Division				Mining LLC	CT519). LQD received two			the sympathetic
					vibration complaints after the			detonation. 2) Video
					shot. This cast was designed to			all sensitized emulsion
					have a maximum of 6,049 pounds			cast blasting operations.
					of explosives firing in any 8ms			Videos shall be made
					delay period. Legally Rawhide			available upon request.
					Mine could have had 7,741			3) Submit an
					pounds firing in any 8 ms delay			operational control plan
					period. The LQD seismograph			to LQD explaining
					located adjacent to the			how the mine will
					complaintant's homes had a			prevent incidents of
					peak particle velocity of 0.54			sympathetic detonation
					inches per second and was			in the future.
					approximately 11,000 ft from the			
					shot. Using the expected vibration			Abatement actions
					equation and the scaled distance			completed on 7/24/19,
					equation, the scaled distance			10/23/19 (verified), and
					factor calculated at 34.8 and a			9/4/19 respectively.
					maximum pounds of explosives of			
					100,000 pounds per 8 ms delay.			
					This is 12.9 times greater than the			
					legally allowed maximum of			
					explosives. The mine provided			
					a video of the shot and LQD			
					corroborated findings noted			
					above. The video confirms the			
					cast shot sympathetically			
					detonated.			

1.5.1 Property Ownership
Within Permit Area

Name	Address	Type of Holder: Legal/Equitable/Leaseholder/Purchaser	Surface or Mineral Property	Surface Acreage	Parcel ID	Map ID Reference
American Land Holdings of Illinoi, LLC	701 Market St. St. Louis, MO 63101	Lease	Surface	-----	1098	1098
					1099	1099
					1100	1100

Name	Address	Type of Holder: Legal/Equitable/Leaseholder/Purchaser	Surface or Mineral Property	Surface Acreage	Parcel ID	Map ID Reference
Central States Coal Reserves of Illinois LLC	701 Market St. St. Louis, MO 63101	Lease	Surface	-----	25	25

1.5.2 Property Ownership
Contiguous to the Permit Area

Name	Address	Options/Interests on Property	Surface or Mineral Property	Parcel ID	Map ID Reference
Norman L. & Marcella J. Prest Trust	10221 Jean Rd Coulterville, IL 622377-1423	NA	Surface	1091	1091
Moore & Dorothy Wilson Trust	7340 State Route 4 Sparta, IL 62286	NA	Surface	1092	1092
				1093	1093
Loren Prest	402 Shady Ln Sparta, IL 62286	NA	Surface	1097	1097
James & Sarah Boyd	12807 State Route 13	NA	Surface	1101	1101
American Land Holdings of Illinois LLC	701 Market St. St. Louis, MO 63101	Lease	Surface	1103	1103