

Electronic Submission Format Guide

Large Noncoal (Industrial Minerals) Mine Permit Application (5600-PM-BMP0315)

Module 1: Application

Include the following as PDF files with appropriate titles:

- Section A through Section I, the Application Checklist, and all narrative responses
- Act 67 / 68 Notifications
- Notice-of-Intent to Publish

Module 2: NPDES Information

Include the following as PDF files with appropriate titles:

- The module and the narrative responses
- Note: this is only the information module, not the NPDES application.

Module 3: Ownership & Compliance Information

Include the following as PDF files with appropriate titles:

- Sections 3.1 and 3.2, and all narrative responses

Module 4: Areas Where Mining is Prohibited or Limited

Include the following as PDF files with appropriate titles:

- Sections 4.1 through 4.3, and all narrative responses
- Cultural Resource Notice Form (0120-PM-PY0003)
- All correspondence with the Pennsylvania Historical and Museum

Module 5: Property Interests / Right-of-Entry

Include the following as PDF files with appropriate titles:

- Sections 5.1 through 5.3, and all narrative responses
- Contractual Consent of Landowner (Noncoal / Industrial Minerals) "Supplemental C" Form (5600-FM-BMP0050)
- Required copies of lease agreements or other right-of-access documents

Module 6: Environmental Resources Map

Include the following as PDF files with appropriate titles:

- Section 6.1 and Section 6.2, and their narrative responses
- 7½-minute U.S.G.S topographic map (latest edition) delineating the proposed permit area identified as Exhibit 6.1 Map
- Module 6.2 Environmental Resources Map

AutoCAD Option: See the Additional Notes for all AutoCAD and Georeferencing requirements.

Module 7: Geology Information

Include the following as PDF files with appropriate titles:

- Sections 7.1 through 7.4, and all narrative responses
- Module 7.1B Geologic Log Drill Holes / Overburden Analysis Data
Note: If the geologic logs were prepared using an electronic format, then also submit the electronic version of the logs.
- All geologic cross sections or fence diagram as required by Module 7.1(b)
- Overburden analysis report as required by Module 7.4(b)
- Overburden analysis data illustrating the applicant's calculations
- Any additional drawings and / or cross-sections (e.g. zone-of-influence maps)

Include the following as an Excel (or equivalent) Spreadsheet
Overburden analysis data.

AutoCAD Option: See the Additional Notes for all AutoCAD and Georeferencing requirements.

Module 8: Hydrology

Include the following as PDF files with appropriate titles:

- Sections 8.1 through 8.6, and all narrative responses
- Background or Monitoring Report (Module 8.1(A))
Note: Sample points may be represented by separate sheets within one PDF file or by separate PDF files. However, whatever approach is chosen must be followed in subsequent revisions.
- All supplemental data and information provided on private water supplies. (e.g. pump test data, replacement cost calculations and an expanded narrative regarding the replacement of the supply)
- Each water supply replacement agreement or abandonment waiver

Include the following as an Excel (or equivalent) Spreadsheet:

The Background or Monitoring Report (Module 8.1(A))

Module 9: Operations Map

Include the following as PDF files with appropriate titles:

- Module 9 and all narrative responses
- Module 9 Operations Map.

AutoCAD Option: See the Additional Notes for all AutoCAD and Georeferencing requirements.

Module 10: Operational Information

Include the following as PDF files with appropriate titles:

- Sections 10.1 through 10.14, and all narrative responses
- If required, Form 5600-PM-MR0026 (MSHA Co-ordination)

AutoCAD Option: See the Additional Notes for all AutoCAD and Georeferencing requirements.

Module 11: Incidental Coal Extraction

Include the following as PDF files with appropriate titles:

- Sections 11.1 through 11.3, and all narrative responses

Module 12: Erosion and Sedimentation Controls

Include the following as PDF files with appropriate titles:

- Sections 12.1 through 12.3, and all narrative responses.
- Module 12.1 Diversion / Collection Ditch Data Sheet
- Each cross-section required by Section 12.3b

Include the following as an Excel (or equivalent) Spreadsheet:

- Module 12.1

AutoCAD Option: See the Additional Notes for all AutoCAD and Georeferencing requirements.

Module 13: Impoundments / Treatment Facilities

Include the following as PDF files with appropriate titles:

- Sections 13.1 through 13.6, and all narrative responses
- All Pond Certification Sheets, pond drawings, and cross sections

AutoCAD Option: See the Additional Notes for all AutoCAD and Georeferencing requirements.

Module 14: Streams / Wetlands

Include the following as PDF files with appropriate titles:

- Sections 14.1 through 14.6, and all narrative responses.
- Supplemental drawings, plans, and cross sections.
- If required, Form 14A (Request for Federal Clean Water Act (CWA) Section 401 Certification for Mining / Coal Refuse Disposal Activities)
- All additional supporting correspondence (e.g. the Army Corps or PA Fish and Boat Commission)

AutoCAD Option: See the Additional Notes for all AutoCAD and Georeferencing requirements.

Module 15: Noncoal Underground Mines

Include the following as PDF files with appropriate titles:

- Sections 15.1 through 15.12, and all narrative responses
- Mine Development Map (Module 15.2)
- Operational Mine Maps (Module 15.3)
- Openings / Mine Seals Form (Module 15.9)

AutoCAD Option: See the Additional Notes for all AutoCAD and Georeferencing requirements.

Module 16: Large Noncoal Blasting Plan

Include the following as PDF files with appropriate titles:

- Module 16 Checklist.
- Section 16.1 through Section 16.17 and all narrative responses

AutoCAD Option: See the Additional Notes for all AutoCAD and Georeferencing requirements.

Module 17: Air Pollution and Noise Control Plan

Include the following as PDF files with appropriate titles:

- Section 17.1 through Section 17.3 and all narrative responses

Module 18: Land Use and Reclamation Map

Include the following as PDF files with appropriate titles:

- Module 18 checklist
- Module 18 / Land Use and Reclamation Map

AutoCAD Option: See the Additional Notes for all AutoCAD and Georeferencing requirements.

Module 19: Land Use / Vegetation

Include the following as PDF files with appropriate titles:

- Sections 19.1 and 19.2, and their narrative responses

Module 20: Post-mining Land Use and Reclamation

Include the following as PDF files with appropriate titles:

- Sections 20.1 through 20.4, and all narrative responses
- If a land use change is proposed, the landowner request letter and the written comments of the government agency or planning commission with statutory responsibility for land use policies and plans

Module 21: Topsoil / Subsoil

Include the following as PDF files with appropriate titles:

- Sections 21.1 through 21.3, and all narrative responses
- Module 21.1 USDA Soils Map

AutoCAD Option: See the Additional Notes for all AutoCAD and Georeferencing requirements.

Module 22: Reserved

Module 23: Revegetation

Include the following as PDF files with appropriate titles:

- Sections 23.1 through 23.5, and all narrative responses

Module 24: Special Protection Waters

Include the following as PDF files with appropriate titles:

- If mining is proposed on a Special Protection Watershed, Form 5600-PM-MR0007 "Anti-Degradation Supplement for Mining Permits" must be completed and submitted.
- If a Social or Economic Justification (SEJ) is being requested, Form 5600-PM-MR0028 "Social or Economic Justification (SEJ) and Water Use Demonstration (for projects in high quality [HQ] waters only)" must be completed and submitted.
- If the SEJ includes mineral analyses that are considered confidential, the mineral analyses must be submitted.

Additional Notes:

Bonding - Application for Authorization to Conduct Large Noncoal Mining Activities

- The completed application form
- Bond calculations
- If the application is a modification to an existing permit, each Supplemental C's, dwelling barrier waivers, and / or variance / distance limitation documents, which were not approved as part of the original permit application
- If the application is a modification to an existing permit, a revised Module 9 / Operations Map, showing the updated bonding information

NPDES: Application for Individual NPDES Permit Associated With Mining Activities

- The entire NPDES application should be submitted as an individual PDF file.
- Any water quality data submitted to support the effluent characterization requirements should be submitted in two formats:
 - A PDF file, and
 - An Excel spreadsheet that allows the Department work with the raw data

AutoCAD Option

- Submitting the required material as AutoCAD files may expedite the Department's review and analyzing the applicant's application.

Georeferencing Map Standards

- A digital image copy of the certified map should be submitted in an uncompressed Tagged Image File Format (TIFF) (.tif).
 - The resolution of the image should be a minimum of 400 dots per inch (dpi). A higher dpi should be used if 400 dpi does not clearly reproduce a legible image.
 - The color depth of the image should be 24-bit 3-band RGB color.
- The map should be drawn in a well-known acceptable coordinate system that is indicated in the map legend.
 - The geographic horizontal datum should be the North American Datum of 1983 (NAD83).
 - The projected coordinate system can be one of the following:
 - State Plane Pennsylvania North (U.S. Feet), NAD83 (EPSG WKID: 2271)
 - State Plane Pennsylvania South (U.S. Feet), NAD83 (EPSG WKID: 2272)
 - UTM Zone 17 North, NAD83 (EPSG WKID:26917)
 - UTM Zone 18 North, NAD83 (EPSG WKID:26918)

- The map should have at least four coordinate pair points drawn and identified in the indicated coordinate system.
 - The coordinate points drawn on the map should be within an accuracy tolerance of 3 feet to the mine workings drawn on the map.
- The digital mine map image file should be georeferenced in a Geographic Information System (GIS) software in the indicated coordinate system.
 - The digital mine map image file should be accompanied by an ESRI TIFF auxiliary xml file (.tif.aux.xml) *and / or* a TIFF world file (.tfw).
 - The xml file should contain the four projected coordinate points matched to their respective digital image file's x / y points, with a georeferencing Transformation setting of "1st Order Polynomial (Affine)" (accomplished through ESRI's ArcMap software).
 - The world file should position the map in a GIS software where the drawn coordinate points on the digital map image are within 3 feet of their respective projected coordinate points.

Miscellaneous

- Depending upon the type of data or supplemental documents being submitted, the information should be submitted in a PDF or Excel spreadsheet format. (e.g. the cover letter sent with the application; the proof-of-publication, when it is received; other notifications and correspondence that would normally be part of the file record).
- When submitting revisions, resubmit the entire Module with revisions and the supporting data, if the Module was not revised, do not resubmit the Module.