

# Electronic Submission Format Guide

## Bituminous Coal Surface Mine Permit Application (5600-PM-BMP0311)

### Module 1: Application

Include the following as PDF files with appropriate titles:

- Section A through Section J, 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

Include the following as PDF files with appropriate titles:

- Section 3.1 through Section 3.5 and all narrative responses

### Module 4: Areas Where Mining Is Prohibited or Limited

Include the following as PDF files with appropriate titles:

- Section 4.1 and Section 4.2, and all narrative responses
- The Cultural Resource Notice Form (0120-PM-PY0003)
- Any correspondence with the Pennsylvania Historical and Museum

### Module 5: Property Interests / Right-of-Entry

Include the following as PDF files with appropriate titles:

- Section 5.1 through Section 5.4 and all narrative responses
- Consent of Landowners Form "Supplemental C" Form (5600-FM-BMP0010)
- Module 5.4: Dwelling barrier waivers
- 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 all narrative responses

- The 7½-minute U.S.G.S topographic map (latest edition) delineating the proposed permit area identified as Exhibit 6.1 Map
- The 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:

- Section 7.1 through Section 7.6 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)
- The overburden analysis report as required by Module 7.4(b) should be submitted as an individual PDF file
- The overburden analysis data illustrating the applicant's calculations should be submitted as an individual PDF file
- 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:

- Section 8.1 and Section 8.7 and all narrative
- The narrative responses in Sections 8.3 through 8.7 of Module should be submitted as an individual PDF files
- The 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.
- The Private Water Supply Information (Module 8.2(A) (5))
- The Specific Capacity Data (Module 8.6(A))

- 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

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

### Module 9: Operations Map

Include the following as PDF files with appropriate titles:

- Module 9 and all narrative responses
- The 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:

- Section 10.1 through Section 10.19 and all narrative responses
- When applicable, cross sections and/or maps required with Section's 10.8, 10.9, and 10.19
- All correspondence and agreements needed to fulfill specific parts of Module 10. (e.g. Modules 10.10, 10.11 and 10.14)
- If required, Form 5600-PM-MR0026 (MSHA Co-ordination)
- If required, Form 5600-PM-MR0449 (Mining Tank Inventory)

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

### Module 11: Coal Refuse Disposal

Include the following as PDF files with appropriate titles:

- Section 11.1 through Section 11.5 and all narrative responses
- Cross-section required by Module 11.4 / Cross-Sections

AutoCAD option:

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

## Module 12: Erosion and Sedimentation Controls

Include the following as PDF files with appropriate titles:

- Section 12.1 through Section 12.3 and all narrative responses
- The Module 12.1 Diversion / Collection Ditch Data Sheet
- Cross-sections required by Section 12.3b

Include the following as an Excel (or equivalent) Spreadsheet  
Module 12.1 Diversion / Collection Ditch Data Sheet

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

## Module 13: Treatment Facilities / Sedimentation Ponds

Include the following as PDF files with appropriate titles:

- Section 13.1 through Section 13.5 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:

- Section 14.1 through Section 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: Excess Spoil

Include the following as PDF files with appropriate titles:

- Section 15.1 through Section 15.6 and all narrative responses
- Supplemental plans and cross sections required by Module 15.6

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

### Module 16: Bituminous Coal Blast Plan

Include the following as PDF files with appropriate titles:

- The Bituminous Coal Blast Plan Module 16 Checklist
- Section 16.1 through Section 16.15 and all narrative responses
- Each map required by Module 16.15 Map

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:

- The application module checklist should be submitted
- The Module 18 / Land Use and Reclamation Map

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

### Module 19: Land Use / Vegetation / Fish and Wildlife / Prime Farmland

Include the following as PDF files with appropriate titles:

- Section 19.1 through Section 19.4 and all narrative responses
- Section 19.4 narrative answers should be submitted as an individual PDF file
- Module 19.3 / Fish and Wildlife (Protection / Enhancement Plan)
- The Pennsylvania Natural Diversity Inventory (PNDI) search
- All correspondence between the applicant and resource agencies

- If required, the Indiana Bat Protection and Enhancement Plan
- The USDA Soil Survey Map required by Section 19.4 / Prime Farmland Soils

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

#### Module 20: Post-mining Land Use

Include the following as PDF files with appropriate titles:

- Sections 20.1 through 20.3 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 22: Prime Farmland Reconstruction

Include the following as PDF files with appropriate titles:

- Sections 22.1 through 22.5 and narrative responses

#### Module 23: Revegetation

Include the following as PDF files with appropriate titles:

- Sections 23.1 through 23.7 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.
- 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.
- If the SEJ includes mineral analyses that are considered confidential, the mineral analyses must be included

## Module 25: Coal Ash Beneficial Use

Include the following as PDF files with appropriate titles:

- Sections 25.1 through 25.7 and all narrative responses
- Monitoring well construction data and well logs required by Module 25.5c / Water Monitoring
- Coal ash monitoring data required by Module 25.5d must be submitted on Form 5600-PM-MR0014 / Coal Ash Water Quality Monitoring Report
- The Landowner Consent for the beneficial use of ash
- All maps and plans required by Module 25.6 / Maps and Plans

Include the following as an Excel (or equivalent) Spreadsheet  
Water Monitoring / Module 25.5d (Coal ash monitoring data)

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

## Module 26: Remining of Areas with Pre-existing Pollutational Discharges

Include the following as PDF files with appropriate titles:

- Sections 26.1 through 26.10 and all narrative responses
- The Module 26.4 / Remining Map
- Module 26.5(B) / Baseline Pollution Load
- Module 26.5(C) / Baseline Pollution Load Summary

Include the following as an Excel (or equivalent) Spreadsheet:  
Module 26.5(B) / Baseline Pollution Load (Subchapter F calculations)  
Module 26.5(C) / Baseline Pollution Load Summary (Subchapter F calculations)

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

## Module 27: Beneficial Use as a Soil Additive / Substitute

Include the following as PDF files with appropriate titles:

- Sections 27.1 through 27.7 and narrative responses

## **Additional Notes:**

### **Bonding - Application for Authorization to Conduct Bituminous Surface Coal 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 "1<sup>st</sup> 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.