

Import Digital Spatial Data (Shapefiles) into OneStop

» **Intended User:** Pipeline Licence Applicants

Overview

To apply for a pipeline or pipeline installation licence, applicants **must upload the proposed pipeline location as shapefiles**.


Important:

All spatial data (shapefiles) must be submitted as ESRI™ polyline, or point features, and must conform to the shapefile standards outlined in the ESRI white paper, [ESRI Shapefile Technical Description](https://www.esri.com/library/whitepapers/pdfs/shapefile.pdf). (<https://www.esri.com/library/whitepapers/pdfs/shapefile.pdf>)

1. Digital pipeline line spatial data is to represent the location of the line within the sketched or surveyed right-of-way.
2. The pipeline start and end points are not just from lease to lease, but are the exact start and end points of the pipeline application.
3. The pipeline line data should be digitized in the direction of flow of material in the pipeline.
4. The pipeline line spatial data should tie in to the proper pipeline lines that have also been submitted as digital spatial data.
5. Digital pipeline point spatial data is to represent the location of the installation as a point.

Digital Spatial Data Files

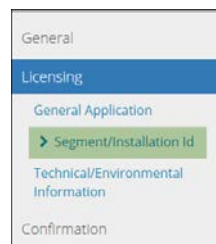
Digital spatial data is uploaded as a shapefile. This file contains pipeline location data and often consists of several files loaded as a zip file.

1. Log into OneStop.
2. From the dashboard, use the search criteria to find the required application.
3. Click .

4. From the left menu bar, select **Licensing**.

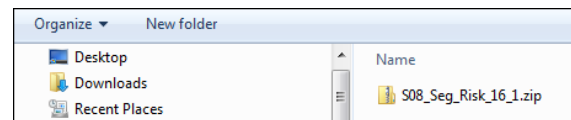


5. Select Segment/Installation Id.



6. Select .

Important: Shapefiles must be loaded *first*, before loading any other files.



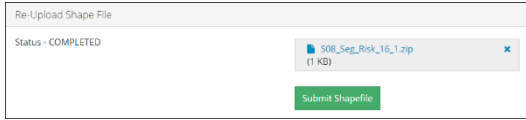
7. Navigate to the location of the required file.

8. Select the required file. 

Name	Type
Pipeline_Segment.dbf	DBF File
Pipeline_Segment.prj	PRJ File
Pipeline_Segment.sbn	SBN File
Pipeline_Segment.sbx	SBX File
Pipeline_Segment.shp	SHP File
Pipeline_Segment.shx	SHX File

9. Double-click to select and insert the file.

10. The shapefile displays in OneStop.



11. Click **Submit Shapefile**

12. OneStop processes the file. This takes 10-30 seconds depending on the file size.



13. While the file is processed, you can continue with the application.

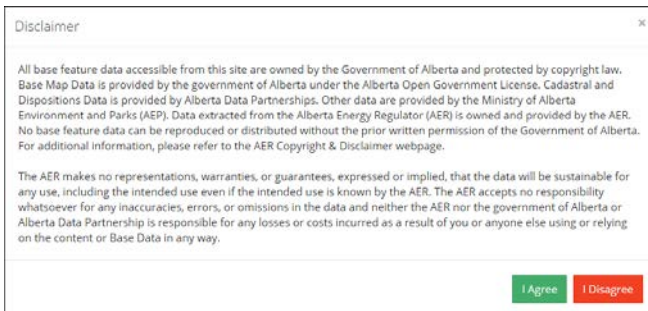
14. Once the file is loaded into Map Viewer, the information displays on the Pipe Location and Status row at the bottom of this window.



15. Move to the top of the window again.

16. Click **View on Map**

17. The Base Map Data Disclaimer displays.



18. Click **I Agree**

When you click **I Disagree**, the file is not loaded into Map Viewer, and the application is not

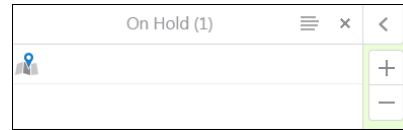
complete.

19. The AER logo displays as Map Viewer is opened.

20. Once loaded, the shapefile area displays.



21. Use the Map Viewer tools to zoom in or out as required.

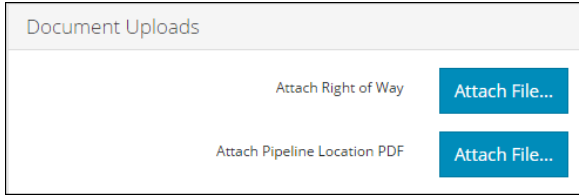


Important: When you need to change a shapefile that is currently attached to a licence, upload the **new** file required.

OneStop overwrites the old file and enters the new file into Map Viewer.

Attach Files

- Two additional files must also be attached to the Licensing - Line/Installation Detail page and submitted as a portable document format (PDF).



- Attach right-of-way

Attach a PDF right-of-way (ROW) plan as described in section 6.9.14.4 of *Directive 056*.

- Pipeline Location

In addition to uploading the shapefile for the pipeline location, a map of the pipeline location for the shapefile must also be submitted.

This is required to allow the public to have view access of the proposed location during the Public Notification of Application period.

PDF of pipeline line location

A map representing the spatial information included in the pipeline line shapefiles that are submitted as a part of the application. It should include the appropriate Dominion Land Survey grids and labels to allow the reader to understand the proposed location of the assets.

PDF of pipeline installation location

A map representing the spatial information included in the pipeline installation point shapefiles that are submitted as a part of the application. It should include the appropriate Dominion Land Survey grids and labels to allow the reader to understand the proposed location of the assets.

The map should include this supporting information:

- Map title, including a reference to the asset types, (pipeline or installation)
- BA name
- Date
- Appropriate Dominion Land Survey grid and

labels that provide appropriate context to the location of the assets

- North arrow
- Legend describing the symbols included on the map

The AER requires all spatial data submissions to be referenced to the NAD83 datum and projected to the following:

Pipeline Spatial Data

NAD 1983 10TM AEP Forest	NAD 1983 CSRS 10TM AEP Forest
NAD_1983_10TM_AEP_Forest	NAD_1983_CSRS_10TM_AEP_Forest
WKID: 3400 Authority: EPSG	WKID: 3402 Authority: EPSG
Projection: Transverse Mercator	Projection: Transverse Mercator
False Easting: 500000.0	False Easting: 500000.0
False Northing: 0.0	False Northing: 0.0
Central Meridian: -115.0	Central Meridian: -115.0
Scale Factor: 0.9992	Scale Factor: 0.9992
Latitude Of Origin: 0.0	Latitude Of Origin: 0.0
Linear Unit: Meter (1.0)	Linear Unit: Meter (1.0)
Geographic Coordinate System: GCS_North_American_1983	Geographic Coordinate System: GCS_North_American_1983_CSRS
Angular Unit: Degree (0.0174532925199433)	Angular Unit: Degree (0.0174532925199433)
Prime Meridian: Greenwich (0.0)	Prime Meridian: Greenwich (0.0)
Datum: D_North_American_1983	Datum: D_North_American_1983_CSRS
Spheroid: GRS_1980	Spheroid: GRS_1980
Semi-major Axis: 6378137.0	Semi-major Axis: 6378137.0
Semi-minor Axis: 6356752.314140356	Semi-minor Axis: 6356752.314140356
Inverse Flattening: 298.257222101	Inverse Flattening: 298.257222101

Pipeline Line Data

Feature Name: Pipeline Segment

Description: Information describing the pipeline line (pipeline centre line, not right-of-way centre) location.

Geometry: polyline

Pipeline Segment Attributes:

Field name	Type	Allowable values	Value description	Mandatory or optional	Definition
FID	Object ID	System defined		Mandatory	Unique identifier
Shape	Geometry	System defined		Mandatory	The spatial feature
UniqueID	Long integer			Mandatory	A unique number to represent the pipeline segment
PrevLineNo	Long integer			Optional	Previous pipeline segment line number; this is for application amendments. This column will be empty for new construction.
Geom_Src	Text	as-planned, construction, as-built, ROW centre line, mapping		Mandatory	Indicates the source drawing of the data, or how the data was generated. "Mapping" refers to the legacy AER mapping standards.

Pipeline line topology and business rules

1. Must not self-intersect
2. Must not self-overlap
3. Must not overlap another pipe centre-line
4. All pipelines must be digitized in the direction of the substance flow through the pipeline

Packaging

Pipeline line data (aka pipeline segments) shapefiles must be provided and named as described below:

Pipeline_Segment.shp (required)

Pipeline_Segment.shx (required)

Pipeline_Segment.dbf (required)

Pipeline_Segment.prj (required and the spatial reference must be NAD 1983 10TM AEP Forest or NAD 1983 CSRS 10TM AEP Forest)

Pipeline_Segment.sbn (optional)

Pipeline_Segment.sbx (optional)

Important: All files must be included in a zip file.

Please submit **separate** zip files for pipeline segments and pipeline installations.

Pipeline Installation Data

Feature Name: Pipeline Installation

Description: Information describing the pipeline installation location.

Geometry: point

Pipeline Installation Attributes:

Field Name	Type	Allowable Values	Value Description	Mandatory or Optional	Definition
FID	Object ID	System Defined		Mandatory	Unique identifier
Shape	Geometry	System Defined		Mandatory	The spatial feature
UniqueID	Long Integer			Mandatory	A unique number to represent the pipeline installation
PrevInstID	Long Integer			Optional	Previous pipeline installation ID; This is for application amendments. This column will be empty for new construction.
Geom_Src	Text	as-planned, construction, as-built, ROW centre-line, mapping		Mandatory	Indicates the source drawing of the data, or how the data was generated. 'Mapping' refers to the legacy AER mapping standards.

Pipeline Installation topology and business rules

1. Must not be multi-part point geometry

Packaging

Pipeline installation point shapefiles must be provided and named as described below:

Pipeline_Installation.shp (required)

Pipeline_Installation.shx (required)

Pipeline_Installation.dbf (required)

Pipeline_Installation.prj (required and the spatial reference must be NAD 1983 10TM AEP Forest or NAD 1983 CSRS 10TM AEP Forest)

Pipeline_Installation.sbn (optional)

Pipeline_Installation.sbx (optional)

Pipeline_Installation.shp.xml (optional)

Important: All files must be included in a zip file.

Please submit *separate* zip files for pipeline segments and pipeline installations.