

**APPENDIX J**  
**MINOR ROUTE VARIATION SUMMARY AND MAPS**

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| Appendix J-1 | Minor Route Variations and Adjustments Incorporated into the Proposed Midcontinent Express Pipeline Project          |
| Appendix J-2 | Maps for Minor Route Variations and Adjustments Incorporated into the Proposed Midcontinent Express Pipeline Project |

**APPENDIX J-1**  
**Minor Route Variations and Adjustments Incorporated into the Proposed**  
**Midcontinent Express Pipeline Project**

## APPENDIX J1

**TABLE J-1  
Minor Route Variations and Adjustments Incorporated into the  
Proposed Midcontinent Express Pipeline Project<sup>a</sup>**

County/Parish	Milepost Begin	Milepost End	Reason for Incorporation
Bryan, OK	OK 0.0	OK 0.5	Better tie-in position with Enogex facilities.
Bryan, OK	OK 2.9	OK 3.1	Avoid a stock pond.
Bryan, OK	OK 4.9	OK 5.8	Increase collocation.
Bryan, OK	OK 7.4	OK 7.6	Increase distance from residence.
Bryan, OK/ Fannin, TX/Lamar, TX <sup>b</sup>	OK 8.2	TX 11.9	Increase collocation; minimize stream and erodible soil impacts.
Lamar, TX	TX 4.6	TX 4.7	Increase collocation, minimize forest fragmentation.
Lamar, TX <sup>b</sup>	TX 9.8	TX 10.0	Avoid a cemetery.
Lamar, TX <sup>b</sup>	TX 10.7	TX 10.9	Avoid buildings.
Lamar, TX	TX 14.8	TX 15.1	Avoid a pond and residential structures.
Lamar, TX	TX 15.1	TX 15.9	Eliminate a highway HDD.
Lamar, TX <sup>b</sup>	TX 15.7	TX 15.8	Avoid Doss Creek and a pond.
Lamar, TX	TX 16.6	TX 17.3	Minimize stream impacts.
Lamar, TX	TX 24.0	TX 24.3	Avoid Mallory Creek and a pond.
Lamar, TX <sup>b</sup>	TX 25.8	TX 26.0	Move pipeline within existing compressor station.
Lamar, TX	TX 25.9	TX 26.1	Change in interconnect location.
Lamar, TX	TX 34.7	TX 34.9	Minimize stream impacts.
Lamar, TX	TX 38.4	TX 38.8	Avoid a residence.
Lamar, TX	TX 39.1	TX 39.4	Minimize a stream impact.
Lamar/Red River, TX	TX 46.0	TX 47.2	Avoid Wetland Reserve Program property.
Red River, TX	TX 50.5	TX 52.2	Provide a better HDD alignment.
Red River, TX	TX 54.3	TX 54.5	Avoid an electric tower.
Red River, TX	TX 56.6	TX 57.2	Avoid stream crossings.
Titus, TX	TX 66.2	TX 66.6	Avoid a pond.
Titus, TX	TX 66.8	TX 67.4	Avoid a stream and improve a stream crossing.
Titus, TX	TX 68.2	TX 68.7	Avoid a road and existing powerline.
Titus, TX	TX 69.8	TX 70.1	Increase collocation and avoid pond.
Titus, TX <sup>b</sup>	TX 73.0	TX 74.5	Improve constructability and avoid waterway and cattle facilities.
Titus, TX	TX 73.0	TX 74.5	Avoid a pond, residential structures, and a creek.
Titus, TX	TX 75.2	TX 75.4	Increase collocation and minimize waterway and wetland impacts.
Titus, TX <sup>b</sup>	TX 75.3	TX 81.7	Avoid residences and other structures.
Titus, TX	TX 75.8	TX 76.6	Avoid cultural site.
Titus, TX <sup>b</sup>	TX 76.0	TX 76.2	Minimize a stream impact.
Titus, TX	TX 78.4	TX 79.2	Increase collocation.
Titus, TX	TX 81.7	TX 82.3	Better align a highway crossing and avoid wetland impacts.
Morris, TX <sup>b</sup>	TX 83.9	TX 86.2	Avoid residences, ponds, and a powerline structure.
Morris, TX	TX 85.0	TX 86.8	Reduce stream crossings and increase collocation.
Morris, TX <sup>b</sup>	TX 86.2	TX 87.3	Avoid residences and a foreign pipeline crossing.
Cass, TX	TX 91.0	TX 91.5	Avoid a pond and lake.
Cass, TX	TX 92.8	TX 93.3	Avoid a pond.
Cass, TX	TX 97.8	TX 98.3	Avoid residences.
Cass, TX	TX 98.3	TX 99.2	Avoid proposed Gulf Crossing pipeline.

## APPENDIX J1

**TABLE J-1 (continued)**  
**Minor Route Variations and Adjustments Incorporated into the**  
**Proposed Midcontinent Express Pipeline Project<sup>a</sup>**

County/Parish	Milepost Begin	Milepost End	Reason for Incorporation
Cass, TX	TX 104.9	TX 105.2	Avoid a residence.
Cass, TX <sup>b</sup>	TX 111.6	TX 113.3	Avoid an existing meter station.
Cass, TX	TX 113.2	TX 113.4	Improve roadway crossing.
Cass, TX	TX 114.5	TX 114.6	Avoid ponds.
Cass, TX	TX 120.7	TX 120.9	Avoid driveway and fence and increase constructability.
Cass, TX	TX 121.0	TX 122.3	Improve constructability
Caddo, LA	LA 1.5	LA 1.9	Avoid a wetland and railroad track.
Caddo, LA	LA 6.6	LA 8.0	Avoid a pond.
Caddo, LA <sup>b</sup>	LA 6.9	LA 7.7	Avoid a pond.
Caddo, LA	LA 8.5	LA 8.9	Enhance alignment of a highway crossing.
Caddo, LA <sup>b</sup>	LA 8.6	LA 8.8	Enhance alignment of a highway crossing.
Caddo, LA	LA 11.4	LA 11.8	Avoid a water well.
Caddo, LA	LA 12.0	LA 12.1	Improve roadway crossing.
Bossier, LA	LA 15.2	LA 18.1	Avoid a WRP.
Bossier, LA <sup>b</sup>	LA 15.7	LA 15.9	Avoid a drainage adjacent to a creek.
Bossier, LA	LA 20.7	LA 21.6	Avoid a pond and parallel property line.
Bossier, LA <sup>b</sup>	LA 20.8	LA 21.1	Avoid a residence and pond.
Bossier, LA	LA 28.0	LA 28.8	Improve constructability.
Bossier, LA	LA 29.6	LA 30.8	Avoid red-cockaded woodpecker habitat.
Webster, LA	LA 33.0	LA 34.5	Avoid gas plant and a well pad.
Webster, LA <sup>b</sup>	LA 34.5	LA 34.6	Avoid a well pad.
Webster, LA	LA 35.8	LA 36.9	Avoid weeps and forested lands within the Bodcau WMA.
Webster, LA <sup>b</sup>	LA 41.3	LA 42.5	Avoid valve manifolds.
Webster, LA	LA 42.4	LA 43.1	Avoid a new well pad.
Webster, LA	LA 45.9	LA 46.6	Avoid a road.
Webster, LA	LA 46.9	LA 47.2	Avoid residences.
Claiborne, LA	LA 50.5	LA 50.9	Avoid a communications tower.
Claiborne, LA	LA 58.6	LA 59.9	Avoid a commercial area.
Claiborne, LA	LA 61.7	LA 61.9	Avoid a residence.
Claiborne, LA	LA 62.5	LA 64.0	Improve roadway crossing.
Claiborne, LA	LA 65.8	LA 65.9	Avoid a large specimen tree.
Claiborne, LA	LA 70.6	LA 70.8	Avoid a residence.
Claiborne, LA	LA 72.8	LA 73.8	Avoid residences.
Claiborne, LA	LA 74.5	LA 74.6	Avoid a residence.
Lincoln, LA <sup>b</sup>	LA 79.1	LA 80.5	Avoid a residence and farm structures.
Union, LA	LA 79.1	LA 79.9	Minimize residential and commercial chicken farm impacts.
Union, LA <sup>b</sup>	LA 85.3	LA 86.0	Avoid multiple residences.
Union, LA	LA 85.3	LA 86.0	Minimize residential impacts.
Union, LA	LA 88.5	LA 92.5	Increase collocation and have a better alignment for HDD.
Union, LA	LA 93.4	LA 93.7	Avoid a residence.
Union, LA	LA 94.6	LA 94.8	Avoid a ditch.
Union, LA	LA 97.8	LA 98.2	Avoid a residence.

## APPENDIX J1

**TABLE J-1 (continued)**  
**Minor Route Variations and Adjustments Incorporated into the**  
**Proposed Midcontinent Express Pipeline Project<sup>a</sup>**

County/Parish	Milepost Begin	Milepost End	Reason for Incorporation
Union, LA	LA 99.2	LA 99.7	Avoid a kennel, future pond, and the proposed Gulf Crossing pipeline.
Union, LA	LA 100.1	LA 100.6	Avoid a residence, barn, and pond.
Union, LA <sup>b</sup>	LA 100.7	LA 101.1	Avoid a residence and septic system.
Union, LA	LA 100.7	LA 100.9	Minimize a stream impact.
Union, LA	LA 101.4	LA 101.7	Avoid a residence and commercial shop.
Union, LA	LA 101.9	LA 102.1	Avoid two barns.
Union, LA	LA 102.6	LA 103.2	Avoid residences, a barn, and outbuilding; minimize number of road crossings.
Union, LA <sup>b</sup>	LA 102.6	LA 103.1	Avoid residences, a barn, and outbuilding; minimize number of road crossings.
Union, LA <sup>b</sup>	LA 111.7	LA 112.4	Improve a road bore.
Union, LA	LA 112.0	LA 112.8	Increase collocation.
Union, LA/Ouachita, LA	LA 119.1	LA 123.0	Avoid a residential development and enhance alignment of Ouachita River crossing.
Ouachita, LA	LA 124.4	LA 126.7	Avoid a well pad, residence, and driveway.
Morehouse, LA	LA 130.1	LA 131.5	Avoid a cultural resource site.
Morehouse, LA <sup>b</sup>	LA 130.8	LA 131.2	Avoid turtle farm ponds.
Morehouse, LA	LA 132.0	LA 132.2	Avoid farm buildings.
Morehouse, LA	LA 138.7	LA 139.6	Avoid substation and increase collocation.
Morehouse, LA/ Richland, LA	LA 140.8	LA 141.6	Improve Bayou crossing.
Richland, LA <sup>b</sup>	LA 141.5	LA 141.6	Avoid a new residence and water well.
Richland, LA	LA 144.3	LA 151.3	Avoid "Mega-site" and improve a bayou crossing.
Richland, LA <sup>b</sup>	LA 149.6	LA 149.8	Avoid a residence and building.
Richland, LA	LA 153.3	LA 154.0	Avoid a pond, slough, and associated cypress trees.
Richland, LA	LA 158.2	LA 158.4	Avoid future industrial park site.
Richland, LA <sup>b</sup>	LA 158.4	LA 163.8	Increase collocation and shorten CenterPoint Lateral length.
Richland, LA	LA 158.5	LA 158.7	Landowner request.
Richland, LA <sup>b</sup>	LA 164.9	LA 165.1	Improve waterway crossing.
Richland, LA	LA 164.9	LA 165.1	Improve waterway crossing.
Richland, LA	LA 165.5	LA 167.9	Improve Constructability.
Richland, LA	LA 169.3	LA 170.4	Improve roadway crossing.
Richland, LA	LA 171.8	LA 171.9	Improve interstate crossing.
Richland, LA	LA 173.2	LA 173.8	Improve a bayou crossing.
Richland, LA	LA 177.2	LA 177.6	Avoid a proposed compressor station and meter station site.
Richland, LA	LA 180.6	LA 182.0	Avoid a residence and barn; improve a road crossing.
Richland, LA	LA 184.4	LA 185.1	Avoid a residence and improve a road crossing.
Richland, LA	LA 188.0	LA 188.3	Improve bayou crossing.
Richland, LA/Warren, MS	LA 190.5	MS 1.8	Increase collocation.
Richland, LA	CL 3.7	CL 4.3	Shifted the tie-in to the mainline.
Warren, MS	MS 1.9	MS 3.0	Minimize side slope construction and associated grading.
Warren, MS	MS 3.9	MS 4.3	Avoid a residence and a pond.
Warren, MS	MS 6.6	MS 6.8	Enhance alignment of road crossing.

## APPENDIX J1

**TABLE J-1 (continued)**  
**Minor Route Variations and Adjustments Incorporated into the**  
**Proposed Midcontinent Express Pipeline Project<sup>a</sup>**

County/Parish	Milepost Begin	Milepost End	Reason for Incorporation
Warren, MS	MS 7.6	MS 8.0	Enhance alignment of road crossing.
Warren, MS	MS 8.7	MS 9.5	Avoid ponds.
Warren, MS <sup>b</sup>	MS 9.1	MS 9.5	Avoid ponds.
Warren, MS	MS 10.3	MS 10.6	Improve a stream crossing.
Hinds, MS <sup>b</sup>	MS 13.6	MS 14.8	Avoid multiple creek crossings and the proposed East Texas to Mississippi Expansion pipeline.
Hinds, MS	MS 14.3	MS 17.8	Improve multiple road crossings.
Hinds, MS	MS 19.3	MS 19.4	Remove a point-of-intersection (PI).
Hinds, MS	MS 19.4	MS 21.6	Improve a stream crossing and avoid a side slope.
Hinds, MS <sup>b</sup>	MS 20.4	MS 20.8	Avoid a creek crossing.
Hinds, MS	MS 23.9	MS 24.3	Avoid livestock enclosures.
Hinds, MS	MS 25.0	MS 25.5	Improve HDD alignment.
Hinds, MS	MS 27.2	MS 27.8	Avoid a residence.
Hinds, MS	MS 29.5	MS 30.2	Improve a road crossing and avoid a stream.
Hinds, MS	MS 32.5	MS 33.3	Improve a road crossing.
Hinds, MS <sup>b</sup>	MS 32.8	MS 32.9	Avoid a cemetery.
Hinds, MS	MS 34.4	MS 34.9	Minimize impacts to planned residential development.
Hinds, MS	MS 35.0	MS 37.2	Avoid residential lands and associated lakes.
Hinds, MS	MS 37.0	MS 39.5	Reduce landowner impacts.
Hinds, MS <sup>b</sup>	MS 37.2	MS 38.6	Avoid a subdivision.
Hinds, MS <sup>b</sup>	MS 40.0	MS 41.7	Avoid ponds and improve multiple road crossings.
Hinds, MS	MS 40.6	MS 42.0	Avoid creek and wetlands.
Hinds/Rankin, MS	MS 42.5	MS 45.6	Improve HDD, road, and railroad crossings.
Rankin, MS	MS 49.0	MS 49.7	Avoid multiple creeks and improve a road crossing.
Rankin, MS <sup>b</sup>	MS 50.8	MS 53.0	Minimize landowner impacts.
Rankin, MS	MS 52.0	MS 52.3	Minimize landowner impacts.
Rankin, MS	MS 55.2	MS 55.6	Avoid residential lands.
Rankin, MS	MS 60.9	MS 61.0	Minimize impact to creek.
Rankin, MS	MS 61.1	MS 61.4	Avoid a compressor station.
Rankin, MS	MS 61.7	MS 62.0	Shift the PI.
Rankin, MS	MS 63.8	MS 64.7	Avoid multiple creek crossings.
Rankin, MS	MS 67.0	MS 67.2	Avoid a creek crossing.
Simpson, MS <sup>b</sup>	MS 77.0	MS 78.0	Avoid multiple ponds and a barn.
Simpson, MS	MS 77.0	MS 79.0	Increase collocation.
Simpson/Smith, MS	MS 79.1	MS 81.9	Avoid a creek and minimize wetland impacts.
Smith, MS	MS 81.9	MS 83.0	Avoid a residence and minimize number of cross overs.
Smith, MS	MS 86.7	MS 88.3	Improve a creek crossing.
Smith, MS <sup>b</sup>	MS 87.5	MS 91.3	Avoid residences and a cemetery.
Smith, MS	MS 90.7	MS 91.3	Avoid a pond and minimize wetland impacts.
Smith, MS	MS 91.3	MS 92.0	Increase collocation.
Smith, MS	MS 97.7	MS 102.1	Avoid proposed Gulf Crossing pipeline and interconnect.
Smith, MS/Jasper, MS	MS 102.1	MS 102.4	Avoid proposed Gulf Crossing pipeline.

## APPENDIX J1

**TABLE J-1 (continued)**  
**Minor Route Variations and Adjustments Incorporated into the**  
**Proposed Midcontinent Express Pipeline Project<sup>a</sup>**

County/Parish	Milepost Begin	Milepost End	Reason for Incorporation
Jasper, MS	MS 103.3	MS 103.6	Minimize stream impacts.
Jasper, MS	MS 103.9	MS 104.4	Avoid proposed Gulf Crossing pipeline.
Jasper, MS	MS 105.9	MS 107.3	Avoid ponds.
Jasper, MS	MS 108.0	MS 110.3	Avoid a wetland and a residence.
Jasper, MS	MS 110.8	MS 111.2	Avoid a residence.
Jasper, MS	MS 111.7	MS 111.9	Residence avoidance.
Jasper, MS	MS 114.3	MS 118.3	Avoid ponds.
Jasper, MS	MS 122.8	MS 123.3	Reduce the number of bends.
Jasper, MS	MS 125.3	MS 126.0	Improve roadway crossing and avoid a residence.
Clarke, MS	MS 127.6	MS 128.2	Improve road and railroad crossings.
Clarke, MS	MS 130.5	MS 132.5	Avoid wetland impacts.
Clarke, MS	MS 133.6	MS 133.9	Avoid a residence.
Clarke, MS	MS 136.4	MS 137.2	Reduce the number of bends.
Clarke, MS	MS 138.7	MS 139.7	Reduce the number of bends.
Clarke, MS	MS 140.7	MS 142.1	Improve road crossings.
Clarke, MS	MS 142.3	MS 143.0	Avoid a roadway.
Clarke, MS	MS 148.0	MS 148.3	Reduce the number of bends.
Clarke, MS	MS 148.8	MS 150.0	Avoid a pond and reduce the number of bends.
Choctaw, AL	AL 4.0	AL 4.4	Reduce the number of bends.
Choctaw, AL	AL 4.6	AL 4.7	Improve a road crossing.
Choctaw, AL	AL 5.0	AL 5.5	Improve stream crossings and avoid side slopes.

Note:

<sup>a</sup> Due to the number of changes made to this table since the issuance of the Draft EIS, margin lines indicating changes are not present.

<sup>b</sup> A route variation adopted more recently may supersede this route variation.