



Burlington Substation to Big Sandy Substation

Category Ranks	Alternative - Segments		
	53 - G1, G2, G4, G6	54 - G1, G2, G5	55 - G1, G3, G6
Engineering	2	3	1
Geology and Soils	1	2	3
Water Resources	1	3	2
Vegetation	1	1	1
Wildlife	1	2	3
Land Use	1	2	3
Cultural Resources	1	1	1
Category Rank Total	8	14	14
Alternative Rank	1	2	2

Proposed, alternative, and other routes are subject to change.

Description & Results

The Burlington Substation to Big Sandy Substation transmission line would be approximately 163 miles in length. The transmission line would begin at the existing Burlington Substation near Burlington, Colorado, run parallel to Interstate 70, and end at the existing Big Sandy Substation near Limon, Colorado.

Route refinement altered segment G3 to avoid homes. Segment G4 was re-routed to follow Tri-State’s existing 230-kV transmission line. Segment G5 was added in response to a scoping comment recommending a route south of Interstate 70. Former route variations near segment G6 were removed to avoid effects to homes.

Alternative 53 was identified as the proposed route. It would parallel an existing transmission line to minimize new disturbance. It also ranked first among the natural resource categories and would affect fewer miles of prime farmland and fewer homes than the alternative routes.

Siting Considerations

The proposed and alternative routes respond to scoping comments and additional ground and aerial surveillance. Several of the routes between substations were re-labeled for the sake of organization and consistency. The segments between Burlington Substation and Big Sandy Substation were re-labeled from “I” to “G”.

Route-specific comments from scoping included the following:

- Avoid I1 (snow loads, ice, and noxious weeds)
- Prefer I5
- Prefer I1 and I2
- Route line to the south of I-70 along existing line of H-frame structures on road 2W (much fewer homes)
- Avoid I5
- Move I1 to the south (follow existing line)
- Prefer routing along existing 230-kV line
- Route project to the south of I-70 to avoid residences, and gain less expensive and more accessible land, grassland, and less ice and snow



Base Map

Burlington to Big Sandy

Legend

Substations

- Existing Substation

Analysis Area

- Energy Center to Boone

Transportation

- Interstate Highway
- State Highway
- U.S. Highway
- Minor Road
- Major Road
- Railroad

Existing Transmission Lines

- 115-kV Transmission Line
- 230-kV Transmission Line
- 345-kV Transmission Line
- 69-kV Transmission Line

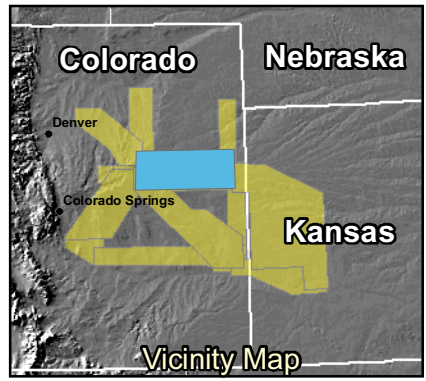
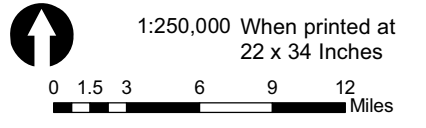
Routes

- Proposed (500-kV)
- Alternative (500-kV)
- Previous (500-kV)

Structures (Digitized from aerial photography)

- Residence
- Other Structure

Source Data:
 ESRI (Cities), BTS (Highways, Airports),
 National Atlas (States),
 CDOT (CO Roads, Rail, City/County Boundaries),
 NED (Hillshade),
 Western and Xcel (Existing Transmission)



Last Revised:
12/12/06

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