

Leavenworth Substation – Site Considerations

Site 3 (Gravel Pit)

Electrical Considerations:

- Single source supply is less reliable, but less visual impact
- Double source supply is more reliable, but more costly and greater visual impact
- Transmission supply is a greater distance away, requiring additional transmission to be built
- Tie-in to delivery distribution infrastructure is favorable

Site Access and Earthwork:

- Site topography is favorable, but would require two access points and entrance earthwork

Aesthetics:

- Site would be visible to town entrance
- Significant shielding via plantings and solid perimeter walls would be required
- Transmission would be required near the town commercial district and/or residential areas

Site 8a (Rattlesnake Hill)

Electrical Considerations:

- Double source supply is available nearby, which would enhance reliability
- Some transmission construction would be required, but rather minimal
- Tie-in to delivery distribution infrastructure is available, but distribution runs would be longer

Site Access and Earthwork:

- Site topography is challenging and costly, but likely achievable due to large lot size
- Site access is challenging and might require additional property to the north

Aesthetics:

- Shielding of this site looks favorable due to topography and existing trees
- Transmission would be coming from industrial/commercial areas
- Additional delivery distribution lines would be required

Site 9 (PUD Site)

Electrical Considerations:

- Double source supply is at the site, which enhances reliability
- The site is adjacent to existing substations, which increases risk consequences
- Tie-in to delivery distribution infrastructure is a challenge
- Distribution new construction and rerouting of existing distribution would be required

Site Access and Earthwork:

- Site topography is favorable, as is site access

Aesthetics:

- Less shielding would be required because the site is next to existing substations
- Transmission aesthetics would remain about the same
- Additional delivery distribution lines would be required