

# Preliminary Comparison of Alternatives

	Alternative A No Action	Alternative B Rebuild & Upgrade	Alternative C Reroute & Upgrade
<b>ENGINEERING SPECIFICATION</b>			
Pole structure type	Wood H-Frame 2 poles set 8 ft apart, 1.5 ft diameter	Steel Monopole 1 pole, 3 ft diameter	Steel Monopole 1 pole, 3 ft diameter
Voltage	69-kV single circuit	138-kV double circuit	138-kV double circuit
New alignment	No	No	Yes
New construction	No	Yes	Yes
Number & location of new taps	None	1 new, 0 removed	2 new, 1 removed
Substations	4 existing, 0 new	4 existing, 1 new	4 existing, 1 new
Length of transmission line	13.6 miles	11.8 miles	12.2 miles
Approx. acreage of new ROW acquired <sup>1</sup>	None	55 acres	125 acres
Approx. length of existing or parallel ROW <sup>1</sup>	All	All	5 miles
Total number of structures (approximate)	144	104	107
ROW width	30 - 100 ft	100 ft max	100 ft max
Average span (distance between poles)	500 ft	600 ft	600 ft
Maximum span	800 ft	800 ft	800 ft
Average height range of poles	55 - 65 ft	75 - 105 ft	75 - 105 ft
Min. ground clearance beneath lowest wire	21 ft	25 ft	25 ft
Max. height of machinery that can be operated under the line safely	15 ft	15 ft	15 ft
<b>LAND USE</b>			
Ownership, miles crossed (approx.) <sup>2</sup>	BLM 1.1 USFS 3.2 NCWCD 0.7 Private 8.3	BLM 1.1 USFS 2.3 NCWCD 0.7 Private 7.5	BLM 2.2 USFS 1.3 NCWCD 3.3 Private 5.0
ANRA, miles crossed	3.2	2.4	1.3
Properties crossed <sup>1</sup>	80	80	20
<b>VISUAL</b>			
Residences within foreground (0.5-mile) <sup>1</sup>	325	325	255

<sup>1</sup> Preliminary estimates only; final figures will be shown in the EIS.

<sup>2</sup> Remainder of mileage includes road crossings, existing utility ROW crossings, etc.