

Viewshed Analysis of PSE&G Proposed Route B Corridor

Performed by the New York-New Jersey Trail Conference, 2008

Land area within a 10 mile buffer of the proposed route from which a tower would be visible

	At least 1 Tower		At least 10 Towers		At least 25 Towers		At least 50 Towers		Total Acres
	Acres	%	Acres	%	Acres	%	Acres	%	
Existing Towers	388558	49	190314	24	83262	10	23789	3	792976
Proposed Towers	459926	58	301331	38	174455	22	87227	11	792976
Change	+ 71368	+ 9	+111017	+ 14	+ 91193	+ 11	+ 63438	+ 8	

*Acres represents the number of acres within 10 miles of the proposed route from which a tower would be visible

*% represents the percentage of the area within 10 miles of the proposed route from which a tower would be visible

~~~Using 'At least 10 Towers' as an example, at least 10 existing towers are currently visible in 24% of the 10-mile buffer zone, while at least 10 proposed towers would be visible in 38% of the zone. This would represent a 14% increase in the area from which at least 10 towers would be visible.

Existing Tower height used was 25 meters (~82 feet)

Proposed Tower height used was 55 meters (~180 feet)

Existing and Proposed Tower locations come from GIS data provided by the Highlands Council

Viewshed Analysis performed by ArcView 9.3 3D Analyst with USGS National Elevation Dataset DEM

This analysis does not take vegetation and most man-made structures into account, but rather is based on the land itself

### Proposed

~~At least one tower visible from 58% of land within 10 miles of line (459926 of 792976 total acres)

~~10 or more towers visible from 38% of land within 10 miles of line (301331 of 792976 total acres)

~~25 or more towers visible from 22% of land within 10 miles of line (174455 of 792976 total acres)

~~50 or more towers visible from 11% of land within 10 miles of line (87227 of 792976 total acres)

### Existing

~~At least one tower visible from 49% of land within 10 miles of line (388558 of 792976 total acres)

~~10 or more towers visible from 24% of land within 10 miles of line (190314 of 792976 total acres)

~~25 or more towers visible from 10.5% of land within 10 miles of line (83262 of 792976 total acres)

~~50 or more towers visible from 3% of land within 10 miles of line (23789 of 792976 total acres)