

### ***Deployment Parameters***

The experimental trial proposes operation from the three sites, which are identified on the application. Throughout the test Midcontinent Communications will use various 20 megahertz channels with the signal oriented at specific azimuths. The chart below provides information requested in the Directional Antenna section of the form.

<b>Location 1- Bismark, ND</b>	
Coordinates	46-48-18.0N / 100-48-04.0W
Width of beam in degrees at the half power point	65° ± 2
Orientation in horizontal plane (degrees from True North)	0°, 90°, 180° and 270°
Orientation in vertical plane (degrees from horizontal)	6°

<b>Location 2 – Mitchell, SD</b>	
Coordinates	43-41-49N / 98-00-46W
Width of beam in degrees at the half power point	65° ± 2
Orientation in horizontal plane (degrees from True North)	0°, 90°, 180° and 270°
Orientation in vertical plane (degrees from horizontal)	6°

<b>Location 3 – Breckinridge, MN</b>	
Coordinates	46-16-19.0 / 96-33-51.0W
Width of beam in degrees at the half power point	65 ° ± 2
Orientation in horizontal plane (degrees from True North)	0°, 90°, 180° and 270°
Orientation in vertical plane (degrees from horizontal)	6°