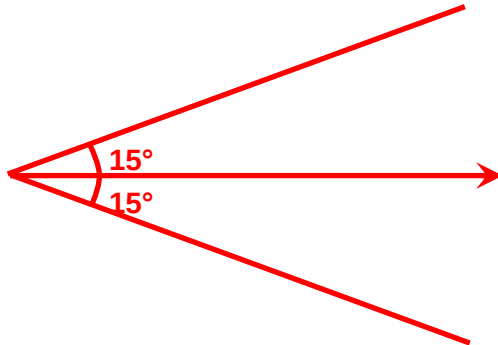


Antenna Orientation Exhibit

STA File Number 1157-EX-ST-2013

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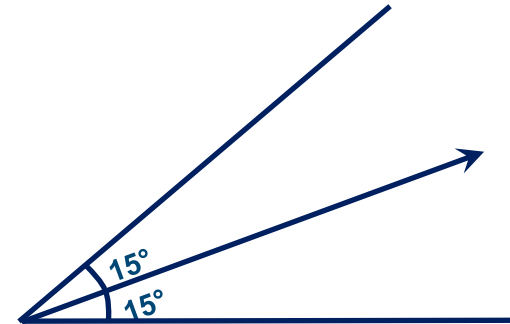
Antenna and Orientation



Azimuth Pointing

Will be determined by actual flight locations

- Nominally 90° True, *but will vary*
- Fixed pointing during any given collection



Elevation Pointing

15° above horizontal for all collections

Antenna Characteristics

Standard Gain Horn

American Technical Materials model 90-441-6

- Azimuth beamwidth 29°
- Elevation beamwidth 29°

The antenna is directional, but since azimuth pointing for the experiment is dependent upon actual flight locations, we are requesting the ability to radiate along any azimuth

–If there are constraints to avoid, we can work that into the test plan