

ASF Richardson “Rich” Site Location

1625 Richardson Hwy
North Pole, AK 99705
64°47’37.0N 147°32’10.0W (64.794, -147.536)
143.8 m elevation

Transmission License

University of Alaska granted 2042.000-2052.000 H,V,L,R
File Number: SES-LIC-20150323-00176
Call Sign: E140023
expires 9/02/2030



UAF1 Reception Capabilities

UAF1 8000-8400 MHz L or R (selectable)
UAF1 8000-8400 MHz R
UAF1 2200-2300 MHz L
UAF1 2200-2300 MHz R
7.3m diameter of parabolic reflector
1.2 degree Beamwidth
Sband G/T 19 dB (worst case horizon)
Xband G/T 32 dB (worst case horizon)

UAF1 Transmission Capabilities

2025.000-2120.000 MHz L,R Transmission Capable
SSPA 100 Watts at 2.00-2.15 GHz
Max EIRP / Carrier (dBW): 53.90
Max EIRP Density / Carrier (dBW/4kHz): 40.00
Max EIRP Density toward Horizon (dBW/4kHz): 6

UAF2 Reception Capabilities

UAF2 8000-8500 MHz R
UAF2 8000-8500 MHz R (listed twice to indicate dual channel reception)
9.1m diameter of parabolic reflector
1.1 degree Beamwidth

UAF2 Transmission Capabilities

2025.000-2110.000 MHz R Transmission Capable
SSPA 50 Watts
Max EIRP / Carrier (dBW): 24.90
Max EIRP Density / Carrier (dBW/4kHz): 11.00
Max EIRP Density toward Horizon (dBW/4kHz): -24.6