

CUSTOMER PROFILE:

- National Park Service
- Retains ARE as the Sole Source Provider of Portable Pole Foundations Solutions in the US

CUSTOMER CHALLENGES:

- Needed a cost effective solution.
- Needed an above grade foundation solution that did not require significant equipment resources.
- Equipment needed to be air lifted by helicopter.
- Short installation period.
- Logistics of installation in remote location.

RESULTS:

ARE designed, manufactured and delivered a foundation/tower system that met all challenging project criteria and was installed as planned, on schedule and with ease.



CASE STUDY – AFS 550 INSTALLATION

National Park Service

OVERVIEW

ARE was contracted to supply a custom engineered tower and foundation solution that was cost effective, portable and repositionable, and could be installed on site with limited resources in one day. Additionally, the equipment had to be designed so that it could easily be assembled with hand tools and moveable hand carts.

SOLUTION

Our solution for this remote site installation was our AFS 500 series foundation and 33 ft. monopole. The system was designed and engineered in such a way that assembly could be done by a crew of 3-4 non-skilled laborers and that minimal experience would be required. Keys to our successful solution were to:

- Utilize flexible, repositionable and re-usable equipment
- Provide equipment that could be installed above or below grade
- Allow flexibility of ballast options per site conditions
- Exceed the wind requirements for tower stability

"Your tower system is a great design and we enjoyed putting it together. Install was straight forward, perfect for our setting (on a mountain accessible only by helicopter - so no heavy digging was required to put in a concrete footing)."

M.W. - General Contractor

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AFS 550 packed in the crate and ready for shipment.



Tower pieces were picked and placed using a portable tripod rigging system.



Tower with Kingspan 6kW turbine is ready to be raised with our 25 ton tower raising system.



Tower System with turbine attached raised into position.