NORTH SLOPE TELECOM, INC.

Remote Communications: Engineered for Alaska and Beyond

Remote Site Telecommunications Support for Oil Exploration

NSTI has provided remote site telecommunications support for the Alaskan petroleum industry for over 30 years. NSTI has received industry-wide recognition for its ability to respond quickly to unique communication challenges in the exploration environment, and to provide reliable service under a variety of extreme weather conditions. NSTI has completed approximately 95 exploration communication support projects in the Alaskan on-shore and offshore environment.

On a typical exploration project, NSTI will provide corporate telephone and computer network connectivity to a remote site via microwave radio or satellite link. Equipment is housed in small portable communication shelters that are wired and tested prior to field deployment, then shipped by truck, vessel, or C-130 to the project site, ready to deploy. The shelters also contain AC and DC power systems, PABX or VoIP equipment, routers, radios, and alarm reporting equipment. NSTI then wires the remote site with local phone and computer network distribution, and interfaces the site to the communications shelter.

Remote site projects also often require installation of local two-way radio networks for logistics support and contingency oil-spill response. Wide area two-way radio safety channels are also required when rig deployment is made via rollagon or ice-roads. Remote sites frequently require radio support for local airport operations and the installation of aircraft navigation aids such as DME, NDB, radar beacon, and GPS based approach equipment. Offshore drilling projects often require additional HF and VHF marine logistics support communication systems.

A few of the unique systems installed by NSTI include:

- Satellite earth station at the geographic center of an extensive exploration project using multiple microwave links to provide simultaneous support for three drilling and two testing rigs.
- Air-traffic-control radar system on a semi-submersible offshore drilling rig. NSTI supplied a FAA trained air-traffic-control radar operator
- Wide area radio network consisting of several linked repeaters servicing an ice road over 70 miles long.

NSTI is capable of planning and deploying these systems in inclement weather conditions and on short notice because we maintain a stable, experienced work force of technicians and installers as well as an extensive inventory of equipment and shelters. An aggressive ongoing cross training program is used to ensure that all of our field personnel are broadly qualified to handle such diverse activities as tower erection, satellite earth station turn up, outside and inside plant copper and fiber installation and testing, circuit and equipment troubleshooting, and safety management.

Location:

State of Alaska (on- and off-shore), 13 U.S. and international locations

NSTI's Role:

- Supply temporary phone and data communications
- Logistics
- Installation
- Maintenance
- Demobilization
- Airport navigation aids
- Two-way radio systems
- Satellite and microwave links

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