



## The Prudhoe Bay Integrated Radio Network

In 2007, the operator of the Prudhoe Bay Oil Field chose Motorola's "Harmony" Integrated Digital Enhanced Network radio system to replace the multiple disparate and aging radio communications systems in use throughout its operating area.

NSTI the prime installation subcontractor for the 23 fixed sites required to provide seamless coverage throughout the operating area. NSTI also installed and distributed thousands of mobile and handheld radios.

In addition to installation labor, NSTI also provided project management, user training, design and drafting support. Over 10,000 man-hours of combined effort to date have resulted in a system successfully servicing over 4000 users.

As part of the deployment of the new system, NSTI removed or relocated large quantities of older legacy equipment in order to create installation space for the new system. This required careful coordination and planning to prevent significant service outages. No operational interruptions of critical circuits were experienced.

NSTI designed and installed a custom console system for one of the main control centers. Five operator positions are supported with touch screens and sophisticated audio and radio controls that allow the operators to talk anywhere in the system. Due to space constraints, small size and flexible placement of components was critical.

### Location:

Prudhoe Bay Oil Field

### NSTI's Role:

- Equipment Installation
- Design and Implementation of a custom operator console system
- Power Upgrades
- User Training
- Planning and Coordination
- System Testing
- System Documentation

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