



Data Radios Communicate to Duquesne Systems

Radius provide wireless PDR 121 data radios to Duquesne Light to improve service to remote communities.

Duquesne Light has for more than 125 years been a leader in the transmission and distribution of electric energy, offering superior customer service and reliability to more than half a million customers in Southwestern Pennsylvania

LARGE SCALE DISTRIBUTION

As part of their continued program of improvements Duquesne Light has started rolling out a large scale distribution automation project, to allow them to bring remote control to a large number of high voltage pole mounted electrical equipment. To ensure the reliability of this project Duquesne Light has ordered Radius PDR 121 VHF data radios for their remote communications.

RADIUS COMMUNICATION OPTION

In all major cities many communications methods are available, as is the case in Pittsburgh, PA, the home of Duquesne Light. But when you run into the challenging and beautiful topography

of Southwestern Pennsylvania and try to automate devices in rural areas like Hookstown, PA, (a community with only 74 homes), your communications options become very limited. Hookstown is located approximately 40 miles NW of Pittsburgh.

CLUSTERED COMMUNICATION LINKS

However, by using the Shippingport tower as a master site, Duquesne Light utilizes the Radius PDR 121 data radio transceivers installed in clusters to provide communication links from the remote devices back to their central SCADA control.

“Radius was able to provide excellent SCADA monitoring to all devices in the Hookstown community”

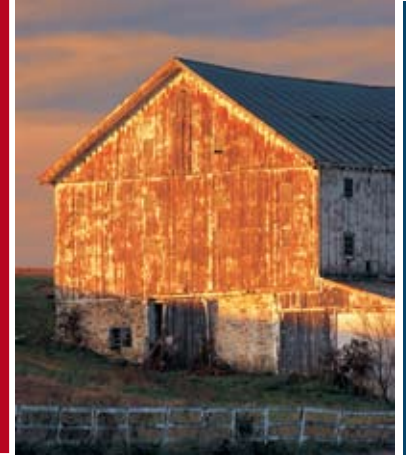


CONTROL THROUGH AUTOMATION

The PDR 121 data radio is able to cover large and difficult terrain, since each device is able to retransmit data messages on to sites where communication was previously impossible. Via the PDR 121 data radio, Duquesne is able to directly control sectionalizers, reclosers and load break switches via a DNP3.0 protocol to Schweitzer, SEL and Cooper controls.

ADVANTAGES OF DATA RADIOS

Radius was able to provide communications where



no other public network was available and no other available radio frequency could reach. With Radius PDR data radio transceivers, Duquesne light will not be subject to monthly recurring or usage charges and will enjoy the added benefit of a reliable private radio network that is not depended on third party maintenance. In addition Duquesne Light is now capable of offering a higher grade of service to communities like Hookstown where communications with these devices was impossible in the past.

BENEFITS OF THE PDR 121

- Wide Area Coverage
- Protocol Decoding
- 19.2 kbps
- Proven reliability
- Collision Avoidance Technology
- Built-in Network Management Tools

NEW FEATURES:

- More protocols
- User configured protocols
- East to install
- Encryption

PROTOCOLS:

DNP3, IEC870, RP570, COMLI, Modbus, Cooper/PG&E 2179, Telegyr 8979, DCSI, Hunt, Exoline, Cactus, PEIP, Aquacom

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