



Telex Radio Dispatch Products Success Story

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Nuclear Plant Emergency Backup Communication Network

Situation

The nuclear power generation division of a large utility in the Southeast wanted a back-up 2-way radio communication system to connect their 3 nuclear power plants and their headquarters. This system is necessary to comply with Section 10 of the Code of Federal Regulations, which requires nuclear power facilities to maintain independent primary and secondary emergency communication systems.

Goals

- Comply with legislation
- Connect stand-alone plant communication systems
- Maintain communications and control from any location during storms or emergencies
- Provide system monitoring and management supervision over emergency communications
- Provide transparent interface to radio users
- Provide increased communication coverage in or near the reactor containment area where cell phones are not allowed
- Reduce infrastructure cost

Telex Provided

- Common interface for all existing radio systems, connecting all plants with no radio replacement and no radio user re-training
- Multiple redundant dispatch locations, maintaining 24/7 network availability and on-demand management supervision of communications
- Utilized existing Wide Area data Network (WAN), eliminating need for costly dedicated connections to radio towers – lower cost and -fewer potential failure points
- 2-way radio platform increased communication coverage area in reactor containment area

Results

- Uninterrupted communication and control in/among all plants and headquarters
- Improved emergency response process with increased monitoring capabilities during drills
- Decreased required upgrade investment by 40-50% by using existing WAN
- Eliminated failure points and reduced maintenance costs by eliminating dedicated lines

Utility Back-up Communication Network

