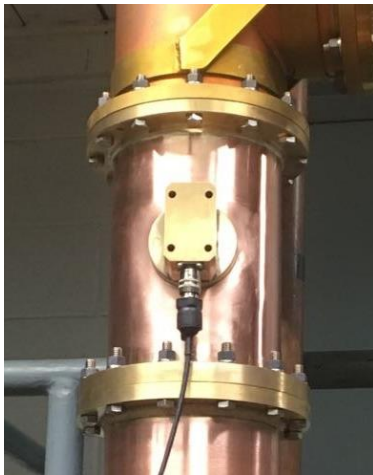


## DAC System installs first 500m high Antenna Top Monitoring in the US

**DAC System, specialised in broadcasting monitoring systems, in partnership with Dielectric announces its first installation in the US. Together they installed the system at the WGME tower in Raymond, Maine.**

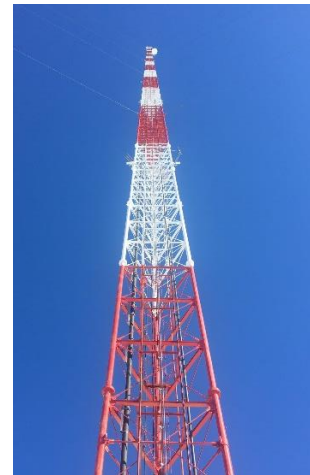
Early April [DAC System SA](#) and [Dielectric](#) installed the first antenna top monitoring in the US. The DAC monitoring device is mounted at a 500 m tower elevation on the outer conductor of the 6-1/8" rigid line. The DAC Monitoring system is measuring the power and VSWR at the bottom and the top of the antenna. This permanent in-line monitoring gives the operator picture complete snapshot of the RF-System. The monitoring system detects any degradation of the system performance and prevents complete system failures or damage through overheating of the rigid line. Prevention is possible because of permanent recording of the measured data; the operators are informed by email, SMS or push APP if barrier threshold indicate system degradation. The unique DAC System enables the operator to monitor RF-Systems with up to 250 Monitoring points per site. The system can monitor the temperature, VSWR/RL and power in indoor and outdoor applications. With its robust outdoor design and fibre communication, it is the only system able to monitor high power broadcast systems on tall towers.



Indoor Sensor installed at the transmitter output



Outdoor Sensor installed at the top of the tower



WGME Tower

***Adding RF-System Monitoring for a US Station subject to Repack is a unique opportunity for all operators adding IoT functionality in the passive RF-System for the next generation network, allowing:***

- Real Time control of all antennas, power splitters/dividers and combiners in an RF-system
- Instant detection of performance degradation (power and quality)
- Immediate failure detection and localization

- Knowledge of the distribution/radiation of transmission power in the combiner and tower
- Actual vs. theoretical performance monitoring
- Logbook and history data for trend analyzes
- Email, SMS, APP alarms notification, triggered by threshold barriers
- Automatic and remote control of amplifiers

***The operator has great benefits, with the following added value:***

- Prevent downtime to broadcast services
- Reduce costs and Mean Time To Repair by an estimated 50%
- Reduce fixed and maintenance costs
- Increased security of broadcast towers (prevention from fire and successive failure damage)
- Offer Monitoring as a Service (MaaS) to third parties
- Prove SLA compliance
- Manage out-sourced operation and maintenance

With the SW DACS Analytics the operator is ready to manage, protect and optimize his network in the forthcoming years.



**ABOUT Dielectric LLC**

Based in Raymond, Maine, Dielectric LLC is a wholly owned subsidiary of Sinclair. Dielectric is a leading provider of innovative broadcast products. From remote stations to major markets, Dielectric has been delivering solutions for every need since 1942. Dielectric is an innovative, customer-centric organization with a long history of engineering excellence in designing and manufacturing high-quality broadcast solutions. The Company is a trusted partner of broadcasters worldwide. More information can be accessed at [www.dielectric.com](http://www.dielectric.com)

**About DAC System SA**

DAC System is a supplier of innovative and unique IoT/monitoring systems. The self-developed products are based on patented technologies and are manufactured in Switzerland acc. to the highest quality standards.

DAC System continuously improves and enhances functions and features of its products. The products and total system solutions are delivered world wide to broadcast and LMR

network operators. The development engineers are able to customize products and solutions for our customers in a very short time.

DAC System is incorporated in Lugano, Switzerland



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