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of Remote Station Infrastructure Monitoring Tools

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General Dynamics Mission Systems' (GDMS) concept of operations for US International Monitoring System (IMS) stations focuses on robust state of health and remote-control capabilities of the particulate and noble gas systems, paired with local operators to monitor the station infrastructure. However, with COVID-19 limiting travel for engineers to IMS stations, GDMS is improving our remote monitoring capabilities for the station infrastructure to assist our local operators. This monitoring includes automated alerting for station environmental and power issues, remote-control of station equipment (HVAC units, generators, etc.), and stationary and portable cameras to monitor key equipment. Through this effort GDMS looks to provide early warning alerts on infrastructure issues, preventing future station outages. Furthermore, by increasing these remote monitoring capabilities, GDMS can reduce the time needed to diagnose station issues, shortening outage durations. Finally, with video cameras onsite, GDMS looks to augment the capabilities of local operators by providing real-time remote support during repair efforts.

Promotional text

The development of remote station infrastructure monitoring highlights the ways GDMS is adapting to and overcoming the challenges posed by the COVID-19 pandemic. This effort aligns with Theme 4.5 "Resilience of the CTBT Monitoring Regime, Including Lessons Learned from the COVID-

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