

To: Public Water and Wastewater Officials (TANS list)

Title: Threat Advisory Notification System [TANS] Notice # 40

Purpose: To Forward Water ISAC cyber vulnerability documents

Distribution: FOUO

Attached are two documents regarding a cyber vulnerability, Boreas, which the U. S. Department of Homeland Security (DHS) has identified. DHS notified the Water Sector Coordinating Council (WSCC) about this vulnerability and asked WaterISAC, as the operational arm of WSCC, to distribute the attached documents to subscribers.

DHS has identified and verified Boreas within the firmware upgrade process used in control systems deployed in various critical infrastructures and key resources, including drinking water and wastewater utilities. Successfully exploiting this vulnerability could cause components within the control system to malfunction or shut down, potentially damaging the equipment or process.

Please review the attached information, Control Systems Vulnerability in Multiple Sectors and Boreas Vulnerability Checklist and Mitigation Steps, to identify if a component is susceptible. Please contact DHS National Cyber Security Division at [cssp@dhs.gov](mailto:cssp@dhs.gov) for additional technical information and assistance.

Following your assessment, please contact the WaterISAC's Aaron Levy at [levy@WaterISAC.org](mailto:levy@WaterISAC.org) with information addressing these two questions: Did you find the vulnerability in your system? What did you do to mitigate the vulnerability? Your responses will be kept confidential and reported only in aggregate

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