



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

August 17, 2021

SECURITY ADVISORY FOR POWER REACTORS, INCLUDING THOSE UNDER CONSTRUCTION; NONPOWER PRODUCTION AND UTILIZATION FACILITIES; DECOMMISSIONING REACTORS, INCLUDING THOSE THAT ARE PERMANENTLY DEFUELED BUT HAVE NOT TRANSITIONED TO DECOMMISSIONING; FUEL FABRICATION, ENRICHMENT, AND CONVERSION/DECONVERSION FACILITIES; INDEPENDENT SPENT FUEL STORAGE INSTALLATIONS; LICENSEES POSSESSING SPECIAL NUCLEAR MATERIAL UNDER TITLE 10 OF THE CODE OF FEDERAL REGULATIONS PART 70; LICENSEES REGULATED UNDER TITLE 10 OF THE CODE OF FEDERAL REGULATIONS PART 37; AND ALL RADIATION CONTROL PROGRAM DIRECTORS AND STATE LIAISON OFFICERS

SA 2021-10

SUBJECT: SITUATIONAL AWARENESS—BLACKBERRY QNX VULNERABILITY

On August 17, 2021, the U.S. Department of Homeland Security Cybersecurity and Infrastructure Security Agency (DHS/CISA) published Alert AA21-229A, "BadAlloc Vulnerability Affecting BlackBerry QNX RTOS" (<https://us-cert.cisa.gov/ncas/alerts/aa21-229a>). This alert describes an exploitable vulnerability in the BlackBerry QNX real-time operating system (RTOS). The QNX RTOS is used in a variety of applications, including industrial control systems. An RTOS with exploitable vulnerabilities may enable actors to deny system availability, exfiltrate data, and move laterally within the systems in which they are installed. The U.S. Nuclear Regulatory Commission (NRC) is issuing this security advisory to provide situational awareness to its licensees and Agreement States.

The NRC recommends that all licensees review the CISA alert and associated releases and take appropriate mitigative actions in accordance with licensee procedures and, where applicable, cyber security plans.

Reporting suspicious activity is important to the U.S. Government's security mission. The NRC encourages its licensees to remain vigilant and report cyber-related suspicious activity to CISA. Licensees subject to Title 10 of the *Code of Federal Regulations* (10 CFR) 73.54, "Protection of digital computer and communication systems and networks," are reminded of their obligation to report to the NRC certain cyber-related events under 10 CFR 73.77, "Cyber security event notifications."

If you have any questions concerning this advisory, contact the technical point of contact below.

Backfit Analysis Statement: This security advisory does not amend or impose new requirements or constitute a new or different regulatory staff position interpreting Commission rules and, therefore, does not constitute backfitting as defined in 10 CFR 50.109, "Backfitting," or 10 CFR 70.76, "Backfitting," or 10 CFR 72.62, "Backfitting." Consequently, the staff did not perform a backfit analysis.

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