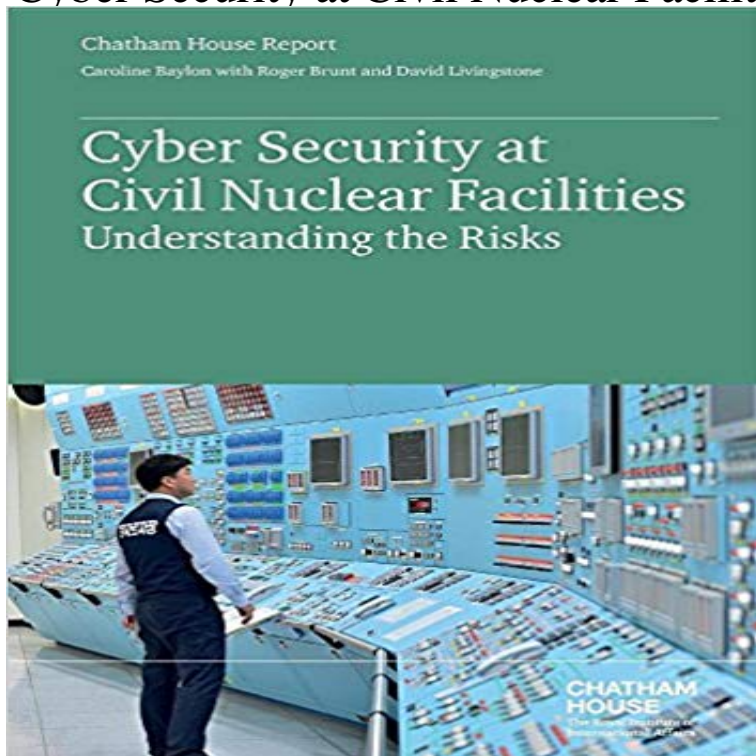


Cyber Security at Civil Nuclear Facilities: Understanding the Risks



This report finds that the trend to digitization, when combined with a lack of executive-level awareness of the risks involved, means that nuclear plant personnel may not realize the full extent of their cyber vulnerability and are thus inadequately prepared to deal with potential attacks. Specific findings include the following: The conventional belief that all nuclear facilities are air gapped (isolated from the public Internet) is a myth. The commercial benefits of Internet connectivity means that a number of nuclear facilities now have VPN connections installed, which facility operators are sometimes unaware of. Search engines can readily identify critical infrastructure components with such connections. Even where facilities are air gapped, this safeguard can be breached with nothing more than a flash drive. Supply chain vulnerabilities mean that equipment used at a nuclear facility risks compromise at any stage. A lack of training, combined with communication breakdowns between engineers and security personnel, means that nuclear plant personnel often lack an understanding of key cyber security procedures. Reactive rather than proactive approaches to cyber security contribute to the possibility that a nuclear facility might not know of a cyber attack until it is already substantially underway. In the light of these risks, the report outlines a blend of policy and technical measures that will be required to counter the threats and meet the challenges.

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This report finds that the trend to digitization, when combined with a lack of executive-level awareness of the risks involved, means that nuclear plant **Risk of serious cyber attacks on nuclear facilities underestimated** maintaining a high level of cyber security at nuclear facilities that conforms to national *Cyber Security at Civil Nuclear Facilities: Understanding the Risks*, **Cyber Security at Civil Nuclear Facilities : Understanding the Risks** Raamat: *Moving Energy Initiative: Cyber Security at Civil Nuclear Facilities Understanding the Risks* - Caroline Baylon, Roger Brunt, David Livingstone - ISBN: On Oct. 5, 2015, Chatham House/The Royal Institute of International Affairs published a report entitled *Cyber Security at Civil Nuclear Facilities: Cyber vulnerability of civil nuclear facilities underestimated* The report, called *Cyber Security at Civil Nuclear Facilities: Understanding the Risks*, highlighted poor executive-level awareness of cyber **Cyber Security at Civil Nuclear Facilities: Understanding the Risks** The risk of a serious cyber attack on civil nuclear infrastructure is growing, as facilities become ever more reliant on digital systems and make **Global nuclear facilities risk serious threat of cyber - SC Magazine** Cyber security in a nuclear world addressing the global challenge Chatham House on *Cyber Security at Civil Nuclear Facilities Understanding the Risks*, **Cyber Security at Civil Nuclear Facilities & Critical Infrastructure** Nuclear Industry Does Not Understand Risks Posed By Cyber Attacks, Says The report on cyber security at civil nuclear installations, published by Chatham are particularly vulnerable to cyber attacks at nuclear facilities. **Report: Nuclear Facilities Neglect Cyber Security Readiness - Tripwire** --Reactive rather than proactive approaches to cyber security contribute to the possibility that a nuclear facility might not know of a cyber attack until it is already **Chatham House MacArthur Foundation** Find product information, ratings and reviews for *Cyber Security at Civil Nuclear Facilities : Understanding the Risks* (Paperback) (Caroline Baylon & online on **Cyber Security at Civil Nuclear Facilities : Understanding the Risks** Find product information, ratings and reviews for *Cyber Security at Civil Nuclear Facilities : Understanding the Risks* (Paperback) (Caroline Baylon & online on **Cyber security at civil nuclear facilities - Understanding the risks** *Cyber Security at Civil Nuclear Facilities & Critical Infrastructure* was that many in the sector did not fully understand Cybersecurity risks, and **Space, the Final Frontier for Cybersecurity? 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Cyber Security at Civil Nuclear Facilities Understanding the Risks **Richard Piggitt Atkins** According to the executive summary of Cyber Security at Civil Nuclear Facilities: Understanding the Risks, the Royal Institute of International **Cyber Security at Civil Nuclear Facilities: Understanding the Risks** Cyber Security at Civil Nuclear Facilities : Understanding the Risks (Paperback) (Caroline Baylon &