

CYBER SECURITY FOR NUCLEAR REACTORS IN CANADA – MEETING THE CHALLENGE

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Abstract

As Industrial Control Systems (ICS) continue moving into the digital realm, they inherit some of the weaknesses that have affected digital computers for decades. One of the key challenges is that digital assets are vulnerable to ‘cyber’ attacks. To address this issue, in 2013 Canadian nuclear operators and other key stakeholders joined with the CNSC to develop the new standard ‘CSA N290.7-14 Cyber Security for Nuclear Power Plants and Small Reactor Facilities’. Following the completion of the standard, the participants have continued sharing cyber security OPEX and offering mutual assistance through the COG ‘Computer Security Peer Group’. The group has also interfaced with cyber security guidance development at the IAEA on behalf of the government of Canada. This presentation will describe the evolution of nuclear cyber security in Canada, and how ongoing efforts are meeting this new challenge.