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Analytics for radionuclide systems of the International Monitoring System

Sensor data from radionuclide systems within the International Monitoring System (IMS) provides critical information about the operating status of a given station. Typically, station operators monitor sensors for significant deviations from normal operation to signify a potential problem and take some action. Detecting subtle changes over long periods of time always presents a challenge, but such a detection could provide valuable insight into an impending failure. To address this, Pacific Northwest National Laboratory is currently working towards the idea of predictive analytics through a comprehensive strategy. The idea is to use several techniques to identify critical failures early, such that they can be mitigated before becoming catastrophic. This presentation will highlight recent advancements and discuss the overall strategy.

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