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Sentry: A Proposed Platform for Analysis of International Monitoring System Radionuclide Data Sets

Pacific Northwest National Laboratory (PNNL) has developed a software platform to analyze the radioxenon and particulate radionuclide datasets from the International Monitoring System (IMS). This development platform, called Watchmen, allows the testing of software modules to provide additional analysis methods and to combine the radionuclide data sets for more complete evaluation. PNNL proposes to develop an international version, called Sentry, of the software platform for the National Data Center (NDC)-in-a-box software currently available to National Data Centers of States Parties. The Sentry platform would allow the inclusion of other analysis techniques that may be of interest to National Data Centers. This would facilitate subject matter experts within the International Data Centre, the IMS, and National Data Centers to collaborate on new data analysis techniques and display methods. They can then develop modules which become part of the Sentry platform. This talk will discuss the currently available analysis modules, the software criteria, and potential new modules.

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