

Developing a Deployable, Flexible Radionuclide Analysis Pipeline

The UK NDC Radionuclide analysis pipeline has been designed to be collapsed and rebuilt as required. Whilst the current pipeline is built across a number of high-performance computing systems at AWE Aldermaston, there was a requirement to produce a flexible system that can be deployed at short notice. Taking inspiration from the IDC's NDC-in-a-Box (NIAB), installation code and documentation has been compiled such that the system can be installed on a virtual machine, running a variety of operating systems. This opens up the radionuclide analysis pipeline capability for use externally, on a contained system. All of the radionuclide analysis and review tools (including BeGAX, GRINDER & GBL15 GUI) are accessible from within the virtual machine and the performance is similar to that of the UK NDC integrated solution. This poster showcases some of the features of the tools used to interact with the radionuclide data as well as the results of a recent NDC collaboration.

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