

WAO'18: Workshop on Accelerator Operations



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Adapting to the Introduction of New Emergency Procedures and Fire Systems at the Neutron and Muon Source at Rutherford Appleton Laboratory

Wednesday, October 3, 2018 3:30 PM (1h 30m)

The Neutron and Muon source at RAL is a large scale facility, conceived over 30 years ago, consisting of a pulsed 800MeV rapid cycling synchrotron. The facility has tungsten-tantalum targets with a comprehensive suite of 36 different detectors, spread across 2 target stations.

The poster will document recent changes and its challenges to the Alarm Investigation Team (AIT). This team (consisting of accelerator Operators and Security personnel) investigate various alarms, including fire alarms.

Our poster will focus on 3 main areas:

- Procedures

Why new procedures had to be written and how this was achieved.

- Fire detection equipment

Highlighting some of the new equipment and defining why this equipment was essential to protect our accelerator from fire.

- Team Structure

A new promotion system will be explained in more detail, together with its advantages. It is called “fluid complementing”. This concept is currently in process at RAL, designed to provide a more accessible route to promotion for operators and in turn bringing increased cover for the AIT.

Within each area, details will be presented of the changes that have taken place. We will show some of the difficulties faced, solutions found and how this change was managed.

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Session Classification: Poster Session & Software Demo

Track Classification: Adapting to change: learning a new machine, cross-training as an operator