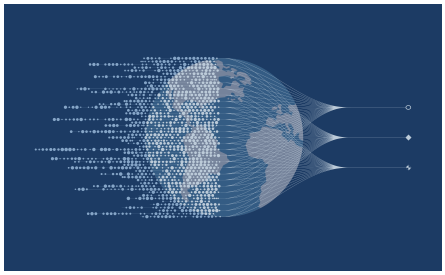

ID: **P5.1-371** Type: **E-poster**

: An overview of environmental radionuclide monitoring of pressurised water reactor

As part of the Xenon and Environmental Radionuclide Analysis at Sizewell (XENAS) experimental campaign, a UK-based Pressurised Water Reactor (PWR) nuclear power station (Sizewell B) has provided access allowing measurement of several radionuclide monitoring process routes. This work aims to provide an overview of the experiment, discuss its motivations, present the results obtained to date and outline its future direction. Measurement campaigns such as this provide useful insight for the nuclear explosion monitoring community and supplement the existing characterisation of sources of manmade radionuclides relevant to the Comprehensive Nuclear-Test-Ban Treaty (CTBT).

E-mail

cameron.brown@awe.co.uk

In-person or online preference

Primary author: BROWN, Cameron (Atomic Weapons Establishment (AWE) Aldermaston)

Co-authors: PETTS, Andrew (EDF Energy); RAE, Annie (Atomic Weapons Establishment (AWE) Aldermaston); Mr CHESTER, Daniel (Atomic Weapons Establishment (AWE) Aldermaston); Dr GOODWIN, Matthew (Atomic Weapons Establishment (AWE) Aldermaston)

Presenter: BROWN, Cameron (Atomic Weapons Establishment (AWE) Aldermaston)

Session Classification: P5.1 Synergies with Global Challenges

Track Classification: Theme 5. CTBT Science and Technology in the Global Context: T5.1 Synergies with Global Challenges