UNIVERSITY OF
SURREY

NuSec **Nuclear Security
Science Network**

Contribution ID: **123**   Type: **Oral Presentation**

GROUSE 2025 update

Wednesday 5 March 2025 15:15 (15 minutes)

AWE is developing a spectroscopic RN detection algorithm GROUSE validated on down-sampled SIGMA data with injected simulated threats and simulated threat templates. Our top-level approach is described and detail provided of our anomaly detection in Poisson stats approach (POODLE) which feeds spectroscopic data to GROUSE, as well as the inject data, and templates. Initial performance is also outlined as are lessons learnt from the development journey thus far.

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Session Classification: Session 3: Sigma Data and Algorithm Studies