



ID: P4.3-418

Type: e-Poster

## of Alert Monitoring System for the Malaysian Radionuclide Monitoring Station (RN42)

*Friday, 2 July 2021 11:00 (15 minutes)*

Among the monitoring stations include the RN42 which is located in Cameron Highlands, Pahang, Malaysia. Generally, the task to monitor the status and result of the radioactivity spectrum is quite a tedious job. The radionuclide analyst at the International Data Centre (IDC) in Vienna, Austria analyzed around 21 to 25 spectrum data every day. Automatic products help the analyst to perform subsequent interactive analysis. However, from the National Data Centre (NDC) point of view, the task of monitoring the result is only part of their other routine task. Consequently, they could miss important events that happened at their stations that require immediate response. This paper aims at discussing the development of a simple alert system for monitoring the health of the RN42 station. The preliminary data (PREL) which is collected and received every two hours are chosen in this study as the parameter of interest, including the existence of natural radionuclides such as Beryllium-7 (Be-7) and Sodium-24 (Na-24) as indicator. The alert system has been developed using Python and integrated with existing client email software. Alert will be sent to the authorized recipient to their smartphone using Telegram Bot and could be displayed in a simple webpage.

### Promotional text

A simple but effective method to alert NDC staff and stakeholders about what is happening on their stations as well as important alerts about any important detection which answering the first objective of this conference.

**Primary authors:** Mr BIN HARIS, Mohd Fauzi (Malaysia Nuclear Agency, Selangor, Malaysia); Mr ZOLKAFFLY, Muhammed Zulfakar (Malaysia Nuclear Agency, Selangor, Malaysia)

**Co-authors:** Mr ISMAIL, Saaidi (Malaysia Nuclear Agency, Selangor, Malaysia); Mr ASLAN, Mohd Dzul Aiman (Malaysia Nuclear Agency, Selangor, Malaysia); Mr MD. ZIN, Muhammad Rawi (Malaysia Nuclear Agency, Selangor, Malaysia); Mr ABD RASHID, Mohd Faisal Izwan (Malaysia Nuclear Agency, Selangor, Malaysia); Ms MD. NORWAWI, Norita (Malaysia Nuclear Agency, Selangor, Malaysia)

**Presenter:** Mr BIN HARIS, Mohd Fauzi (Malaysia Nuclear Agency, Selangor, Malaysia)

**Session Classification:** T4.3 e-poster session

**Track Classification:** Theme 4. Performance Evaluation and Optimization: T4.3 - IT, Power Systems and other Enabling Technologies