



Contribution ID: 160

Type: poster

Nuclear Accidents Archive Knowledge Organization System Portal “NAAKOS”: An Application of Semantic Technologies in the Nuclear Domain

Monday, 7 November 2016 17:00 (1 hour)

In line with the IAEA Action Plan on Nuclear Safety, the IAEA was requested to assist Member States enhancing transparency and effectiveness of communication among operators, regulators and various international organizations, and supporting wide dissemination of safety related technical information on nuclear safety. In this context, the IAEA was further asked to analyse and preserve lessons learned from the Fukushima Daiichi NPP accident, as well as from past major incidents and radiological events.

The IAEA NKM Section has launched the Nuclear Accidents Repository Portal Knowledge Organization System “NAAKOS” initiative which aims at collecting and preserving data, information, and knowledge related to nuclear accidents and making this knowledge available through one single access point, while ensuring their long term preservation. The NKM Section has developed the Nuclear Accidents Taxonomy which will be used, along other nuclear taxonomies, to enhance information retrieval. It would also include the use of semantic technologies, data mining and linked data to support users beyond the traditional search facilities. The overall objective is to assist to find predefined measures in a timely manner that could prevent, or at least minimize the adverse effects of incidents.

Country or International Organization

IAEA

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Session Classification: Poster Session

Track Classification: Track 8: Issues and approaches for information, records and data management