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Seminarium Zakładu Energetyki Jądrowej i Analiz Środowiska (UZ3) Departament Badań Układów Złożonych (DUZ)

Wtorek: **15.12.2020**
11:30

Aleksej Kaszko

Example of Probabilistic Safety Assessment for Seismic Events

Abstract:

One of the most important external events affecting Nuclear Power Plants and other installations are earthquakes. International Atomic Energy Agency even says that in some cases, the risk caused by earthquakes can be comparable with the risk caused by an internally initiated event. Therefore proper earthquake influence on the facility should be validated. One of the tools for validation of earthquake impact that was recommended by IAEA in 1993 is the Probabilistic Safety Assessment (PSA).

Probabilistic Safety Assessment for Seismic Events requires a lot of knowledge for proper implementation in PSA, component seismic fragility and earthquakes for given localization of the facility. During the seminar implementation of Probabilistic Safety Assessment for Seismic Events in SAPHIRE program will be shown on two examples. The first example is based on Demo Oriented Neutron Source (DONES) installation Test Cell (TC) and Lithium Loop Cell (LLC) confinement with a defined seismic g-level model. The second example is based on Station Black Out (SBO) model created within NARSIS project with usage of Earthquake (EQ) hazard histogram.

Serdecznie zapraszamy,
M. Dąbrowski, T. Kwiatkowski

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