



Towards European Licensing of
Small Modular Reactors

International Summer School on **Early-deployable Small Modular Reactors**

2022

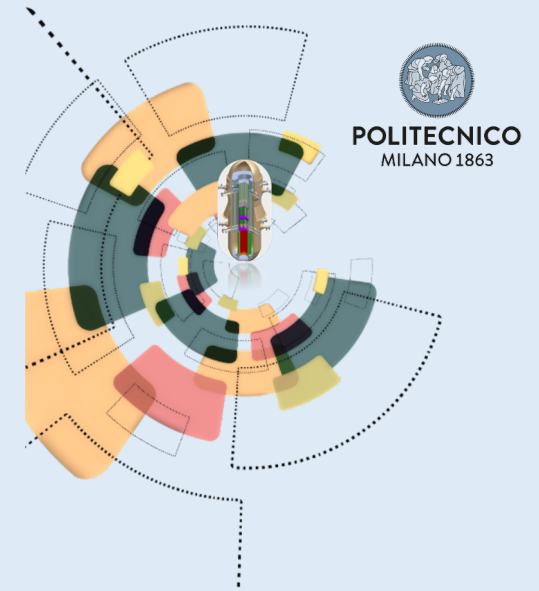
July, Tue 5 - Fri 8

Working Groups – SMR exercise 1: discussion on safety

In August 2020, NRC completed the Final Safety Evaluation Report (FSER) of the NuScale reactor issuing a Standard Design Approval.

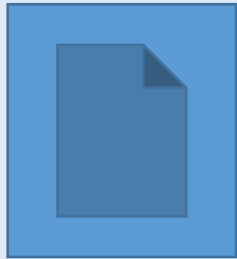
Read the FSER (*Chapter 1, Introduction and General Discussion*) and address the following questions:

1. Which is the approach used by the NRC to evaluate the Design Certification Application of NuScale?
2. Which are the main differences between NuScale and a classic PWR?
3. Which are the systems that rely on natural circulation? Please provide a short description for each of them
4. What are the “exemptions” and which is their role in the SMR licensing?
5. Which are the main findings of the NRC staff? Which are the three issues not resolved? Especially regarding the third issue, which is your suggestion to NuScale?



SMR: Safety strategy - discussion

US NRC 2021: Introduction and General Description



NuScale: Introduction and General Description of the Plant

