## Discussion Points in the International Workshop

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Prevention and Mitigation of Severe Accidents in Sodium-cooled Fast Reactors

## Safety approach against SAs on SFRs (1/2)

- Reinforcement of measures for Design Extension Condition
  - ✓ Prevention and mitigation of severe accidents
- SFR safety characteristics considered in Design Extension Condition
  - ✓ Even in case of whole core CDA
    - Not generating energetics taking into account reactivity configuration, which is not maximum
    - Cooling of degraded reactor core

## Safety approach against SAs on SFRs (2/2)

- Utilization of Passive Safety Features
  - ✓ Robustness against common cause failures like F1 accident
  - Passive shutdown without energetics and passive decay heat removal from degraded reactor core
- Measures for Design Extension Conditions
  - ✓ Build-in measures with enhanced accident management for prevention and mitigation of severe accidents for future reactors
  - ✓ Accidents management implementation and evaluation of design margin against SAs for existing reactors