

# IAEA International Conference on Topical Issues

**Risk informed decision making  
Lead in statement**

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# Risk informed decision making

## Lead in statement

### Question No. 5.8:

Is there sufficient guidance for preparation of high quality PSAs?

Is there the need for an international standard for PSA?

# Risk informed decision making

## Lead in statement

- Comprehensive guide required for all three levels
- International Standard is needed
- “Reference” PSA for typical NPPs can supplement the standard



# Risk informed decision making

## Lead in statement

### Question No. 5.9:

Is PSA methodology sufficiently developed to support 'risk informed' regulation, e.g. rare events, modeling of human failure, severe accident management, organizational factors ?

Is PSA methodology sufficiently developed to model new reactor designs more dependent on passive failures ?



# Risk informed decision making

## Lead in statement

- Rare events : Collection of data
- Standard methodology needed for HRA
- Organizational factors need not be considered in PSA
- Passive features : More data needed



# Risk informed decision making

## Lead in statement

### Question No.5.10:

How it is possible to ensure that operators are in a position to develop, use and maintain living PSAs and risk/safety monitors to support 'risk informed' decisions.



# Risk informed decision making

## Lead in statement

- Operators involvement in PSA is essential
- User-friendliness of software
- Training in preparation and use
- **Impress benefits of LPSA and Risk Monitors**



# Risk informed decision making

## Lead in statement

### Question No. 5.11:

Which actions should be taken by IAEA to support introduction of 'risk informed' decision making, e.g. related to the areas of development of International Standards, harmonization of criteria, compilation and dissemination of experience, and education and training ?



# Risk informed decision making

## Suggestions to IAEA

- Development of International Standards
  - For all the three levels of PSA
  - Associated guidelines
- Preparation of 'reference' PSA for typical plants by international co-operation
- Exchange information on acceptance criteria for various PSA application



# Risk informed decision making

## Suggestions to IAEA

- Compile & disseminate information on
  - Reactor specific failure data
  - Treatment of CCF in PSA modeling
  - Treatment of external events in PSA
  - Data on rare events
- Education & Training
  - Assist individual country in preparation & review of PSA
  - Arrange formal education, training and certification of professionals.

