ASAMPSA_E FINAL END-USERS WORKSHOP

“Reviewing and discussing the ASAMPSA_E guidance reports for the development and use of extended PSA for NPPs”

September 12th-14th, 2016

The workshop is hosted by Vienna University.
Department of Geodynamics and Sedimentology
Althanstraße 14, A-1090 Vienna, Austria

The preparation is coordinated by IRSN (France), ICN (Romania), JSI (Slovenia), TUS (Bulgaria), EDF (France), SSTC (Ukraine)

The workshop is open to the organizations having expertise in PSA developments and applications (or in hazards assessment) and that contribute to the on-going survey/ review of the reports produced by the ASAMPSA_E group.

Most of these reports are in preliminary version and will be modified and improved.

Practical Information and reports are available on http://asampsa.eu/asampsa_e-2nd-end-users-workshop/

For questions and to contact the project: asampsa@irsn.fr
Reports submitted to the review

General issues for PSA
- Lessons of the Fukushima Dai-ichi accident for PSA [report access]
- Risk metric for extended PSA [report access]
- Link between extended PSA and defence-in-depth concept [report access, support report]
- Guidance for decision making based on extended PSA [report access]

Selecting hazards for PSA
- List of external hazards to be considered in ASAMPSA_E [report access]
- Criteria to select initiating events to be considered in an extended PSA [report access]

Developing PSA
- Guidance document on practices to model and implement EARTHQUAKE hazards in extended PSA [report 1 access, report 2 access]
- Guidance document on practices to model and implement FLOODING hazards in extended PSA [report access]
- Guidance document on practices to model and implement EXTREME WEATHER hazards in extended PSA [report access]
- Guidance document on practices to model and implement LIGHTNING hazards in extended PSA [report access]
- Guidance document on practices to model and implement BIOLOGICAL hazards in extended PSA [report access]
- Guidance document on practices to model and implement MAN-MADE HAZARDS AND AIRCRAFT CRASH in extended PSA [report access]
- Implementation of external events modeling in extended L2 PSA [report access]
- Optimization of SAMG strategy by L2 PSA [report access]
- Complement of existing ASAMPSA2 guidance for shutdown states of reactors, spent fuel pool and recent R&D results [report access].

Other reports (not submitted to the review)
- Summary report on the impact and experience feedback of the previous ASAMPSA2 project
- Synthesis of the initial survey related to PSAs End-Users needs [report access]
- Summary report of already published guidance on L2 PSA for external hazards, shutdown states, spent fuel storage [report access]
- Bibliography - Existing Guidance for External Hazard Modelling [report access]
- Summary report of already existing guidance on the implementation of External Hazards in extended Level 1 PSA [report access]
- Bibliography on regulatory requirements on the implementation of defense in depth for nuclear power plants [report access]
- External events with high amplitude that have concerned NPPs in operation (in Europe or other countries)
- ASAMPSA2 guidance [report 1, report 2, report 3]
SESSION 1 - INTRODUCTION

09h30-9h40  Welcome of participants by Vienna University

09h40  9h50  Objectives of the workshop and overview of the ASAMPSA_E guidance content - E. Raimond (IRSN)

09h50-10h00  Organization of the workshop - overview of the ASAMPSA_E questionnaire and responses Y. Guigueno (IRSN)

10h00-10h15  Information from EURATOM FP - R. Passalacqua (EC)

SESSION 2 - SELECTING HAZARDS FOR PSAs

10h15-10h45  List of external hazards to be considered in ASAMPSA_E (report D21.2)
  • Synthesis of the review (questionnaire answers, feedback from reviewers, proposals for the guidance report improvement) (15’)
  • Discussion on the recommendations/conclusions of the report (20’)
  • Decision on how to achieve the report (15’)
  • Identification of follow-up activities (10’)

10h45-11h00  Break

11h00-12h00  Methodology for Selecting Initiating Events and Hazards for Consideration in an Extended PSA (report D30.3)
  • Synthesis of the review (questionnaire answers, feedback from reviewers, proposals for the guidance report improvement) (15’)
  • Discussion on the recommendations/conclusions of the report (20’)
  • Decision on how to achieve the report (15’)
  • Identification of follow-up activities (10’)

12h00-14h00  Lunch

SESSION 3 - INTRODUCTION OF HAZARDS IN PSAs (1/2)

Earthquake

14h00-15h00  Report 1 - seismic event modelling for PSA
  • Synthesis of the review (questionnaire answers, feedback from reviewers, proposals for the guidance report improvement) (15’)
  • Discussion on the recommendations/conclusions of the report (20’)
  • Decision on how to achieve the report (15’)
  • Identification of follow-up activities (10’)

15h00-16h00  Report 2 - implementation of seismic event impact in L1 PSA
  • Synthesis of the review (questionnaire answers, feedback from reviewers, proposals for the guidance report improvement) (15’)
  • Discussion on the recommendations/conclusions of the report (20’)
  • Decision on how to achieve the report (15’)
  • Identification of follow-up activities (10’)

16h00-16h15  Break

16h15-17h15  Flooding report
  • Synthesis of the review (questionnaire answers, feedback from reviewers, proposals for the guidance report improvement) (15’)
  • Discussion on the recommendations/conclusions of the report (20’)
  • Decision on how to achieve the report (15’)
  • Identification of follow-up activities (10’)

17h15  End of day 1
SESSION 3 - INTRODUCTION OF HAZARDS IN PSAs (2/2)

08h00- 9h00  Extreme weather report
- Synthesis of the review (questionnaire answers, feedback from reviewers, proposals for the guidance report improvement) (15’)
- Discussion on the recommendations/conclusions of the report (20’)
- Decision on how to achieve the report (15’)
- Identification of follow-up activities (10’)

9h00-10h00  Biological hazards report
- Synthesis of the review (questionnaire answers, feedback from reviewers, proposals for the guidance report improvement) (15’)
- Discussion on the recommendations/conclusions of the report (20’)
- Decision on how to achieve the report (15’)
- Identification of follow-up activities (10’)

10h00-10h15  Break

10h15-11h15  Lightning report
- Synthesis of the review (questionnaire answers, feedback from reviewers, proposals for the guidance report improvement) (15’)
- Discussion on the recommendations/conclusions of the report (20’)
- Decision on how to achieve the report (15’)
- Identification of follow-up activities (10’)

11h15-12h15  Man made hazards & aircraft crash report
- Synthesis of the review (questionnaire answers, feedback from reviewers, proposals for the guidance report improvement) (15’)
- Discussion on the recommendations/conclusions of the report (20’)
- Decision on how to achieve the report (15’)
- Identification of follow-up activities (10’)

12h15-13h30  Lunch

SESSION 4 - SPECIFIC ISSUES RELATED TO LEVEL 2 PSAs

13h30-14h30  External Events in L2 PSA (D40.4 report)
- Synthesis of the review (questionnaire answers, feedback from reviewers, proposals for the guidance report improvement) (15’)
- Discussion on the recommendations/conclusions of the report (20’)
- Decision on how to achieve the report (15’)
- Identification of follow-up activities (10’)

14h30-15h30  Guidance on the verification and improvement of SAM strategies with L2 PSA (D40.5)
- Synthesis of the review (questionnaire answers, feedback from reviewers, proposals for the guidance report improvement) (15’)
- Discussion on the recommendations/conclusions of the report (20’)
- Decision on how to achieve the report (15’)
- Identification of follow-up activities (10’)

15h30-15h45  Break

15h45-16h45  Complement of existing ASAMPSA2 guidance for shutdown states of reactors, Spent Fuel Pool and recent R&D results (D40.6)
- Synthesis of the review (questionnaire answers, feedback from reviewers, proposals for the guidance report improvement) (15’)
- Discussion on the recommendations/conclusions of the report (20’)
- Decision on how to achieve the report (15’)
- Identification of follow-up activities (10’)

TUESDAY 13 September - Day 2
SESSION 5 - GENERAL ISSUES FOR PSAs (1/2)

16h45-17h35 Lessons of the Fukushima Dai-ichi accident for PSA (D30.2)
- Synthesis of the review (questionnaire answers, feedback from reviewers, proposals for the guidance report improvement) (15’)
- Discussion on the recommendations/conclusions of the report (20’)
- Decision on how to achieve the report (15’)

17h35 End of day 2

SESSION 5 - GENERAL ISSUES FOR PSAs (2/2)

8h00-9h00 Risk Metrics and Measures for an Extended PSA (report D30.5)
- Synthesis of the review (questionnaire answers, feedback from reviewers, proposals for the guidance report improvement) (15’)
- Discussion on the recommendations/conclusions of the report (20’)
- Decision on how to achieve the report (15’)
- Identification of follow-up activities (10’)

9h00-9h50 The PSA and Defence in Depth concept (report D30.4, support report)
- Synthesis of the review (questionnaire answers, feedback from reviewers, proposals for the guidance report improvement) (15’)
- Discussion on the recommendations/conclusions of the report (20’)
- Decision on how to achieve the report (15’)

9h50-10h10 Break

10h10-11h00 Risk informed decision making (RIDM) and extended PSA (report D30.6)
- Synthesis of the review (questionnaire answers, feedback from reviewers, proposals for the guidance report improvement) (15’)
- Discussion on the recommendations/conclusions of the report (20’)
- Decision on how to achieve the report (15’)

SESSION 6 - FOLLOW-UP ACTIVITIES

11h00-12h00 Follow-up activities
- Synthesis of the answers to the questionnaire (on general evaluation and on follow-up activities) (15’)
- Synthesis of the discussions during the workshop on follow-up activities (15’)
- Discussion (30’)

SESSION 7 - CONCLUSIONS OF THE WORKSHOP

12h00-12h15 Conclusions of the workshop and acknowledgments (E. Raimond, IRSN)

ADDITIONAL POST-WORKSHOP SESSION*

14h00-16h00 Optional discussions or presentations
- Additional presentations
- Discussions on follow-up activities, new projects, ...

*Interest and topics of this “post workshop session” will be defined later. Proposals are welcome.

16h00 End of day 3
Department of Geodynamics and Sedimentology
University of Vienna, Geozentrum
Althanstraße 14, A-1090 Vienna, Austria

Geozentrum, Auditorium (Hörsaal) 6
Splinter Meetings in Room No. 2B204
(Eberhard Clar-Saal)

Stop in front of Stegosaurus

Entrance to splinter meeting room
Door behind red coral limestone

VENUE