

Agenda

5th Meeting of INDUSE-2-SAFETY (RFS-PR-13056)

COMPONENT FRAGILITY EVALUATION, SEISMIC SAFETY ASSESSMENT AND DESIGN OF
PETROCHEMICAL PLANTS UNDER DESIGN-BASIS AND BEYOND-DESIGN-BASIS ACCIDENT CONDITIONS

www.induse2safety.unitn.it

Rome, Italy, 29-30, September 2016

Venue: Centro Sviluppo Materiali S.p.A. - CSM - Rome
Castel Romano street n° 100-00128

Organizers:
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Note: Partners mentioned in brackets are invited to offer presentations on the relevant topics. Remaining partners are free to present and discuss as well.

Thursday, 29 September 2016

10.00-10.10 Welcome to participants and meeting arrangements

10.10-10.50 Administrative aspects of the project (annual report, deliverables, deadlines, etc.) [UNITN].

10.50-11.00 Coffee break

11.00-12.00 Discussion of WP3: Numerical evaluation of fragilities for support structures, pressure vessels, elevated tanks and heaters.

- Fragility curve evaluation for the cathedral heater [RWTH]
- Fragility curve evaluation for elevated tanks [UNIRM3]

12.00-15.30 Discussion on WP4: Experimental testing of piping systems, bolted flange joints, Tee joints, liquid storage tanks and welded connections

12.00-13.00

- Deliverable D4.4: Report on cyclic testing of bolted flange joints under combined loading [UNITN].
- Deliverable D4.5: Report on cyclic testing on Tee joints under out-of-plane loading [UNITN].
- WP4/Task 4.2: Mechanical characterization of steel for cycling loading and low/high temperature [CSM].
- WP4/Task 4.3: Low-cycle fatigue tests of welded connections in unanchored steel liquid storage tanks [UTHESSA].

13.00-14.00 Lunch Break

14.00-15.30

- WP4/Task 4.4: Real time/pseudo-dynamic testing of piping systems with dynamic substructuring [UNITN, RWTH].
- WP4/Task 4.7: Shaking table tests of unanchored/anchored cylindrical steel storage tanks without/with floating roofs [CEA, UNIRM3, UTHESSA].

15.30-18.00 Discussion on WP5: Evaluation of fragilities for piping systems, bolted flange joints, Tee joints and steel liquid storage tanks.

15.30-16.00

- WP5/Task 5.1: Calibration of detailed/simplified models for piping systems and steel liquid storage tanks without/with floating roofs [**UTHESSA**].

16.00-16.15: Coffee break

16.15-18.00

- WP5/Task 5.2: Fragility curves of decoupled/coupled pressure vessels [**RWTH**].
- Deliverable D5.1: Report on fragility curve evaluation of piping systems and components [**UNITN**].
- WP5/Task 5.3: Fragility curve evaluation of anchored/unanchored cylindrical steel liquid storage tanks without/with floating roofs [**UNIRM3**].
- Deliverable D5.2: Report on fragility curve evaluation of unanchored/anchored cylindrical steel liquid storage tanks with/without floating roof [**UTHESSA**].

20:00 Dinner – the place of dinner will be announced during the meeting.

Friday, 30 September 2016

9.15-12.15 Discussion on WP6: Experimental testing of piping systems, bolted flange joints, Tee joints, liquid storage tanks and welded connections

9.15-11.30

- WP6/Task 6.2: Definition of procedures for the propagation of accidents chains in risk analysis [**UNIRM3**].
 - Risk analysis of Case Study #1 [**UNIRM3**]
- WP6/Task 6.3: Quantitative Seismic Risk Assessment methodology of petrochemical facilities [**UNIRM3**].
- WP6/Task 6.3: CFD simulations for Case Study #1 [**CSM**].

11.30-11.45 Coffee break

11.45-12.15 Simulations of Case Study #2 [UNITN]

- WP6/Task 6.3: CFD simulations for Case Study #2 [CSM].

12.15-12.30 Date & Place of next meeting, any other business and closure of meeting.