

Task Group – Fatigue Design Rules

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Agenda of the 4th Teams® meeting of TG1

Tuesday May 10th, 2022

14:00 – 18:00 Paris time

1 Welcome of the participants

2 Remarks on previous meeting minutes

3 Remember EPERC Strategic Plan

- Comparison of International Codes & Standard
- Identification of Gaps & Needs with Code Organization and Industry
- Developments of R&D programs associated to dedicated Road Map developed by topics at the TG level
- Development of Recommended Practices with all the rules validation
- Performance of Benchmarks on practical cases
- Code Case Proposal
- Knowledge transfer through: Regular Thematic Technical Seminars, International Conference, Training courses, Master Classes, Summer School, Reports and Documentation
- Communication and Registration to different EPERC Activities through: www.eperc-aisbl.eu

4 Status of some EPERC TG1 Tasks

- WP1 : Comparison of last Code editions Fatigue Design Rules -

- EN 13445-3 (2021) and ASME VIII (2021) – CODAP - API (?)
- EN 13480-3 (2021) and ASME B 31 (2021) - API (?)
- EN 12952-3 (2021) and ASME I (2021) - API (?)
- ASME III (2021) - RCC-M (2020)/ RCC-MRX (2018) - JSME (?) - KEPIC (?)
- Czech (?) – Chinese (?) - UK (?)

- **WP2 : Inelastic analysis in Fatigue** (in connection with TG4)

- K_e or K_t plastic amplification coefficient evaluation
- Cyclic strain evaluation

- **WP3 : Environmental Fatigue**

- Water
- Hydrogen
- List of other environments to be considered in future program

5 TG1 participant involvements for next meeting

1. Code Comparison contributions?

- EN / ASME I & VIII / API / CODAP
- ASME III / RCC
- and others with available published edition

2. Literature Review contributions?

- On all the different topics identified in TG1 R&D potential program

3. Status of EN Standards contributions?

- EN 13445 (2021)
- EN 13480 (2021)
- EN 12952 (2021)
- Other EN standard concerned by Fatigue Design Rules (?)

4. Recommended Practices Report and Code Cases contributions? **Later.**

6 Acknowledgment

Thanks to Claude Faidy for his participation to the preparation of this meeting.
