

## Task Group 4 – Non-linear Design Rules

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### Draft Agenda of the first Teams<sup>®</sup> meeting of TG4 Thursday September 2<sup>nd</sup>, 2021 14,00 – 17,00 CST

The first meeting of TG 4 will deal with the following topics:

- **WP1:** Failure Modes:
  - Plastic collapse
  - Plastic Instability
  - Local Failure
  - Buckling
  
- **WP2:** Degradation Mechanisms
  - Fatigue:  $K_e$  / cycle by cycle
  - Plastic shakedown
  
- **WP4:** Flaw tolerances
  - Reference Stress
  - Local approach
  
- **WP4:** Specific cases
  - Nozzle reinforcement
  - Elastic Follow Up
  - Bolted flange & Sealing
  - Local Thinning Areas
  
- **WP5:** Strain Based criteria
- **WP6:** Material data for **all previous WPs**
- **WP7:** Experimental R&D program
- **WP8:** International Codes & Standards comparison
- **WP9:** Project management and Synthesis

The meeting will be held as a web conference using Microsoft Teams<sup>®</sup>. **All members and experts wishing to participate are kindly requested to register themselves on the EPERC web site, under “Seminars, Conferences and Meetings” in order to receive the link for the connection.**

EPERC web site: [www.eperc-aisbl.eu](http://www.eperc-aisbl.eu)

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NOTE:

Participation is free for all EPERC individual and company members. **As an exception to the actual EPERC Statute**, in order to promote participation to the research work of EPERC, **the Board of Directors has decided to admit free of charge at this first meeting of TG4 also qualified experts having an experience on Non-linear analysis**, in order that they can evaluate the possibility of joining EPERC as members in order to participate also in the future meetings of this fundamental Task Group.

I wish to remind that **one of the main objectives of EPERC is to promote research projects** organized by a suitable group of individual members or member companies **financially supported by the Commission**, and this is very well possible considering the program of work presented in this agenda. Instructions and fees for joining EPERC (for individuals and/or companies) can be found under "Join us > membership".

Kindest regards.

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