

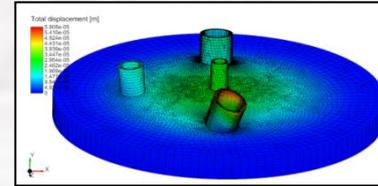
-CivilFEM makes the difference-

Multidisciplinary Advanced Non-linear FEM Analysis Software

Power Plants: Nuclear, Hydraulic...

“CivilFEM® works in the same way as you build”

Analyze the entire construction process in a single model: CivilFEM facilitates the virtual simulation of all the non-linear construction processes in a straightforward sequential way by means of its tools, time-dependent properties and activation and deactivation of materials.

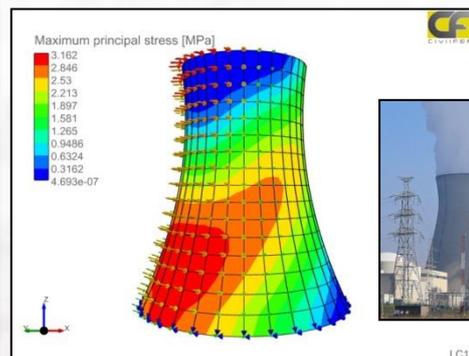
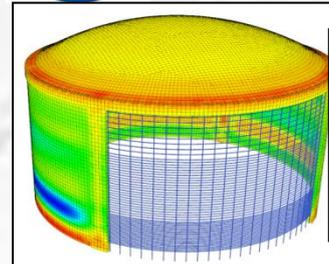


POWER PLANT CAPABILITIES HIGHLIGHTS

- Nuclear concrete & steel codes and QA services
- NRC, ASME & ISO-9001 Developer certification
- Transient and non-linear evolutive construction process
- Time dependent material properties
- Soil-structure interaction analysis
- Non-linear soil behavior laws: Drucker-Prager, Mohr-Coulomb and Tensile Cam-Clay
- Non-linear multibody advanced contacts
- Seismic and earthquake engineering (response spectrum or non-linear time history)
- Hydrodynamic masses (modal, spectral & transient)
- Heat transfer & thermo-structural analysis
- Cracking & crushing. Creep & shrinkage
- Non-linear spring and dampers
- Orthotropic material
- Follower forces. Large deflection
- Non-linear springs and dampers
- Strain-hardening plastic material (steel & concrete)
- Prestressed reinforced concrete

NUCLEAR Concrete & Structural Steel Codes and QA Services

- ACI 349-01, 06, 13.
- ACI 359-04.
- ASME B&PV Code Section III, Subsection NF.
- ITER Structural Design Code



CivilFEM® powered by Marc® is a very powerful and versatile program suitable for all the types of advanced analyses performed in all construction sectors, providing a rich set of tools that streamline the creation of analysis models for Construction, Dams, Civil engineering, Tunnels, Geotechnics, Mining, Energy, Oil & Gas, Precast, etc.

With its intuitive user friendly interface and pre/post features, it is very easy to learn. The powerful (included) Marc® from MSC® Software non-linear solver aids to solve the most demanding and complex advanced analyses. ©Trademark property of their respective owners