Strong Need for Sophisticated Computational Dimensioning and Verifications

- During construction:
  Load on unsupported dome Ø 46.8 m during concreting more than 2300 tons
- Normal operating conditions:
  Loads induced by concrete deformations due to dead loads, pre-stressing, creep, shrinkage, etc
- Loss of coolant accident:
  Loads induced by concrete deformations and liner temperature up to 300°C (572°F); overpressure up to 8.6 bar

Transfer of Actual Shape via Measurements into 3-D-Model and Validation

- Recording of 20 million measuring points
- Evaluation of the „measuring point cloud“ against the theoretical contour of 3-D CAD-drawings and illustration of the deviations in a coloured picture

Erection of Liner on Site

- Pre-assembly places on site
- Site crane with lifting capacity of 220 t
- Climatic conditions: wind/storm, rain/snow/ice, low temperatures, darkness in winter
- Interfces with other suppliers, mainly the civil constructor
- Short installation time due to complete welded containment rings
Reference for EPR™

- Finland: NPP Olkiluoto 3

Reference for NPP

- Germany: NPP Stade
  NPP Neckarwestheim 2
  NPP Isar 2
  NPP Grohnde
  NPP Mülheim-Kärlich
  NPP Unterweser

- Brazil: NPP Angra 2

- Spain: NPP Trillo 1 and 2