ENGINEERING ANALYSIS & SIMULATIONS

High Temperature Technologies Division has considerable	This is also supplemented with availability
expertise in the area of Multi-physics simulations of Tokamak	of quality HPC computing facility and
related components that include	commercial codes –
 Electromagnetic, Thermal, Structural analysis 	
 Thermo-Structural, Electromagnetic-Structural 	ANSYS Mechanical
Coupled Field analysis	ANSYS Fluent
 CFD analysis of first wall and divertor components 	ANSYS Maxwell
> Thermal hydraulic Simulations for experiments carried	COMSOL
out at HHFTF	StarCCM+
> CFD analysis for calorimetry and conjugate heat	Catia
transfer studies and validation with experiments	Abaqus
Codes and Standards: RCCMR/ SDCIC for	Hyperworks
qualification of components	Matlab

Electromagnetic analysis of the ITER Divertor has been performed for off normal loading conditions to estimate the forces acting on the divertor





