



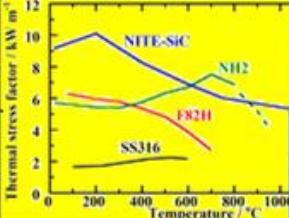





R&D Strategy Toward TRL 6 is proposed.

TRL		1	2	3	4	5	6	7	8	9
Technology Readiness Levels		Basic Technology Research			Technology Development		System/Subsystem Development		System Test, Launch & Operations	
		Research to Prove Feasibility				Technology Demonstration				
Divertor	Basic	W monoblock + Cu alloy cooling pipe + pressurized water				LHD / JT-60SA		ITER		We need to achieve TRL 6 before starting construction of DEMO
	Challenging	liquid metal (Sn) shower + novel divertor				R&D in NIFS, Univs., JAEA		LHD		
Super-conducting magnet	Basic	Nb ₃ Sn + liquid He cooling + continuous winding				LHD / JT-60SA		ITER		Basic option will achieve TRL 6 in ITER
	Challenging	HTS + He gas cooling + joint winding				R&D in NIFS, Univs., JAEA		LHD		
Structure materials	Basic	ferritic steel				R&D in JAEA, NIFS, Univs.		ITER		Basic option will achieve TRL 6 in ITER
	Challenging	ferritic steel + ODS + V alloy				R&D in NIFS, Univs., JAEA		LHD		
Blanket	Basic	solid breeder + pressurized water + helical segmentation				R&D in JAEA, NIFS, Univs.		ITER		Challenging option will achieve TRL 6 in LHD
	Challenging	molten salt + Ti powder + horizontal / toroidal segmentation				R&D in NIFS, Univs., JAEA		LHD		