



Contribution ID: 124

Type: **Poster**

FTP/P1-04: Tungsten Divertor Target Technology and Test Facilities Development

Tuesday, 9 October 2012 08:30 (4 hours)

Tungsten divertor target technology development is in progress at IPR for water-cooled divertors of ITER-like tokamak. Test mock-ups are fabricated using tungsten materials in macro-brush as well as mono-block fashion. Vacuum brazing technique is used for macro-brush fabrication whereas high pressure high temperature diffusion bonding technique is used for mono-block fabrication. Experimental facilities are also being set-up at IPR for Non-destructive testing and high heat flux testing of divertor targets. Present paper describes recent results on high heat flux testing of the test mock-ups and briefly mention about some of the experimental test facilities being set-up at IPR.

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Session Classification: Poster: P1

Track Classification: FTP - Fusion Technology and Power Plant Design