

IFMIF SPECIFICATIONS FROM THE USERS POINT OF VIEW

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The IFMIF (International Fusion Materials Irradiation Facility) Project aims to produce the materials database required for the design and licensing of a future DEMO reactor.

During 2009, and in the framework of the IFMIF-EVEDA project carried out in the framework of the EU-Japan Bilateral Agreement for the Broader Approach, it was created a Working Group in order to update the IFMIF Users requirements for the Facility. The main objectives of this work were: i) to update the role of IFMIF taking into account a possible roadmap for irradiation data and define what should be its objectives (life time, materials, breeding blanket, DEMO design and licensing, etc), ii) to define the main requirements to IFMIF, both for the irradiation programme and the post irradiation examination, including the time schedule, iii) to define the irradiation characteristics of IFMIF dealing with materials characterisation, iv) to propose irradiation objectives for the modules related to breeding blanket characterisation, and v) to propose guidelines for usage of the low flux and very low flux volumes.

In this paper the output of this work will be summarized. Specific attention will be paid to the roadmap of IFMIF and its relationship with the different fusion programme and the materials development activities, to the structural materials, to the blanket functional materials and to non-metallic materials requirements.