PROJECT MANAGEMENT AND DESIGN INTEGRATION ACTIVITIES IN THE

EUROPEAN CONSORTIUM FOR THE ITER TEST BLANKET MODULES

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The implementation of the Test Blanket Modules (TBM) Systems in ITER constitutes a very big challenge since they will be the first nuclear components to be operated in a fusion reactor, which in itself is the first of a kind and a particularly harsh environment. To this end, the activities on the TBM Systems are managed according to a project oriented approach. In this frame, the TBM Consortium of Associates (TBM-CA) has been set up, the goal of which is the development, realization, qualification, installation and operation of the TBM systems in ITER. The TBM-CA groups six European Associates, which collect the necessary expertise, both in technological and management respect.

Inside the TBM-CA, the Management Support and Design Integration Team (MDIT) is the major instrument to ensure that all objectives (operability, coherence, budget, schedule) will be met. The main duties of the MDIT are as follows:

- System engineering coordination
 It concerns the management of the interfaces between the various TBM sub-systems and the interfaces between the TBM systems and the ITER plant.
 It also concerns the management of the TBM systems design baseline.
- Design integration and coordination of the Computer Assisted Design work
- Project management, control of planning and finances
- Quality assurance A quality management system has been implemented, bearing in mind that the TBM activities correspond to a class 1 quality level

• Safety and Licensing A classification of the TBM systems with respect to the PED/ESPN regulations has been defined. Codes and Standards guaranteeing the respect of the regulations have been identified.

A specific preliminary safety report has been written. It mainly addresses the safety approach, the potential hazards and the safety assessment.

The paper will describe the methodology which has been implemented to fulfill the abovementioned duties. It will also report how this methodology has been applied to the activities performed in 2009 and the first half of 2010, dealing with the design and development of the European TBM systems.