

EUROfusion Consortium

WORK PLAN 2014-2018 – ANNUAL WORK PLAN 2015

Call for Participation in

Power Plant Physics & Technology Work Packages

Background

Diagnostics and associated control systems in DEMO will be constrained much more than in ITER by the extreme environmental conditions, mostly due to the higher neutron flux and fluence, and the more stringent requirements on reliability, availability and maintainability. In addition, the requirement of tritium self-sufficiency in DEMO (i.e., DEMO in contrast to ITER must produce its own fuel) places severe restrictions on port space for H&CD systems and sensors and diagnostics in DEMO.

The primary objective is to deliver a feasible, integrated concept design of the DEMO diagnostics and control systems that, with an acceptable confidence level, can be shown to meet the measurement requirements of the device. The concept design shall be substantiated and verified to an appropriate level for a plant-level Conceptual Design Review and minimum R&D development on radiation resistant diagnostic and actuators.

The five year 2014-2018 strategy is outlined in Annex 1 – Part B to the Grant Agreement EUROfusion . This includes the definition of the PPPT Work Packages and their objectives. The Annual Work Plan 2015 gives a breakdown of the work, deliverables and resources for each Work Package in 2015. On the basis of this document, the Project Management Plan for the Diagnostic and Control Systems Work Package shall be prepared and finalised, including the allocation of resources within the selected Research Units.

The call for participation

This call for participation is for the Work Package:

WPDC	Diagnostics and control systems	2015-2018
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Response to the call

The responses to the call shall be submitted through the ECoM system (<https://ecom.eurofusion.org/efda/cons>) no later than **midnight of 14th NOVEMBER 2014**. The responses shall consist of:

- **One Call response form per Research Unit, uploaded onto ECoM.** A template *call response form* for WPDC is supplied. This form describes the competencies and hardware that are required in order to execute the identified work. The Research Units

should fill this form with their proposed participation. Note that these *Call response form* include a guidance note for the completion of this document.

- The contractual and technical **contact person information for this Work Package**
- **The proposed manpower for this Work Package:** this ppy value should be copied from the total value from the personnel table in the *Call response forms, section 5*).
- **The manpower costs:** the Research Units are asked to provide the average salary costs of their staff proposed in this Work Package. This average will have to include the eligible direct costs only (no indirect costs).
- **The proposed hardware cost** (including the cost for operation of facilities): The Research Units are asked to indicate the global costs for procurements (hard/software, external services), costs for the use of facilities and consumables directly linked to the implementation of the Work Package.

Note that for Annual Work Plan 2015 firm figures for manpower shall be provided (no hardware is foreseen in 2015). For the period 2016-18, the Research Units should express indicative figures based on the foreseen profile of manpower and hardware expenditure included in the attached *Call response forms*.

Please note that there is a consensus with the General Assembly on the importance of avoiding fragmentation. With this in mind, the proposed human resources must be focussed on a limited number of Work Packages, and where resources appear to be scattered, effort will be made in the evaluation process to consolidate them.

Evaluation process: Responses will be evaluated by the Project Leader, with the support of the Programme Management Unit.

The Project Leader shall prepare a proposal for the allocation of resources within its Work Package. This proposal will be submitted by the Programme Manager to the first General Assembly meeting in 2015.

Applicable selection and evaluation criteria:

The following selection criteria will be applied:

- Completeness of requested information
- Matching of responses to the competencies defined
- Sufficient level of commitment to avoid sub critical contribution

The evaluation criteria will be as follows:

- Quality and appropriateness of the offered resources
- Proposed contributions to the implementation of the Work Package

- Best allocation of available resources
- Use of subcontractors

References

Please see call response form.

Contacts

Any technical questions you might have please address to the WPDC Project Leader Wolfgang Biel w.biel@fz-juelich.de

For any other questions please contact the PMU RO Thomas Franke Thomas.franke@euro-fusion.org

Information Meeting

As the WPDC is a new launch of a project, an information meeting will be held where the Project Leader will outline further the plans he developed to implement the work. All interested RUs are welcome to join this technical meeting which is held remotely on **Tuesday, 28th October 2014, 10.00h CET**.

FusionTV and Video Conferencing details:

FusionTV Channel 1 / 28Oct2014: Information meeting on call for WPDC:

Presentation: <https://tv.euro-fusion.org/channel1/home>

Presentation Password: show

Video-conference nr. (H.323): 004910097920061

ISDN: +49-30-2541080 (ConferenceID = 97920061)