

EUROfusion Consortium

WORK PLAN 2014-2018 – ANNUAL WORK PLAN 2016

Call for Participation in ITER Physics Work Packages: WPMST2 and WPSA

Background

The ITER Physics (IPH) Work Programme is focused on achieving the deliverables defined in the EU roadmap for developing fusion energy. Out of the 8 Missions defined in the roadmap, IPH primarily deals with Mission 1 “Plasma Regimes of Operation”, Mission 2 “Heat Exhaust System” and Mission 8 “Stellarator” and the corresponding headlines defined in the Work Plan. The five year 2014-2018 strategy is outlined in Annex 1 to the Grant Agreement. This includes the definition of the IPH Work Packages and their objectives. The Annual Work Plan 2016, which has been endorsed by the General Assembly as a draft, gives a breakdown of the work, deliverables and resources for each Work Package in 2016. On the basis of this document, the Project Management Plans for each Work Package shall be updated and finalised, including the allocation of resources within the Beneficiaries. Where this involves the continuation of work using competencies within the existing Work Package team, the allocation will be performed within the Project/Task Force without a call. Where this involves significant increases in the scope of the Project/Task Force and/or competencies that are not available within the existing Work Package team, calls for participation must be made for the additional tasks. This call comprises additional tasks for WPMST2 and WPSA, which constitute all such calls for participation for Work Packages under the responsibility of the IPH Department, with the exception of:

- 1) WPJET1, WPMST1 and WPS1: participation in experimental campaigns, analysis (including construction of databases) and modelling
- 2) WPISA: continuation of the Core Programming Team

These will be covered in separate calls for participation. It is stressed that, as explained above, **this call and its response are only with respect to the additional tasks for 2016.**

The call for participation

This call for participation is for the Work Packages and areas of:

WPMST2	<p>Preparation of exploitation of Medium-Size Tokamaks New diagnostic tasks are introduced in 2016 in support of the Mission 2, related to the better SOL and divertor diagnosis on MST.</p> <ul style="list-style-type: none"> - Implementation of divertor Thomson scattering on AUG - Implementation of edge and divertor diagnostics on MAST-U - Conceptual design for a divertor ion temperature diagnostic on MST
WPSA	<p>Preparation of exploitation of JT-60SA:</p> <ul style="list-style-type: none"> - A new task is introduced in 2016 in the area of: Massive Gas Injection for disruption mitigation on JT-60SA. Definition of requirements and conceptual

- design (2016-2017).
- Within the Task on the Polarimetry system, support on CATIA and ANSYS analysis is required in order to assess the diagnostic feasibility (2016)

Response to the call

The responses to the call shall be submitted **by e-mail** to Mikhail.Turnyanskiy@euro-fusion.org with copy to Susann.Wangnett@euro-fusion.org no later than **midnight of 6 NOVEMBER 2015**.

The responses should consist of:

- **One Call response form per Work Package per Beneficiary.** A template *call response form* for each ITER Physics Work Package involved is supplied. These forms describe the competencies and hardware that are required in order to execute the identified work under the respective Work Package. The Beneficiaries should fill this form with their proposed participation. Note that these *Call response forms* include a guidance note (section 4) for the completion of this document.

Note that for the Annual Work Plan 2016, firm figures both for manpower and, where foreseen, hardware expenditure shall be provided. For the period 2017-18, the Beneficiaries should give indicative figures based on the foreseen profile of manpower and hardware expenditure.

Evaluation process Responses for all Work-Packages will be evaluated by the Project/Task Force Leaders, with the support of the Programme Management Unit. Please be reminded that the proposal for the allocation of the global budget per Work Package has already been submitted to the European Commission in the draft Annual Work Plan 2016, therefore, the flexibility for adjustments following the outcome of the Calls is limited.

Based on the responses, the Project Leader shall prepare a proposal for the allocation of resources within its Work Package, which shall be discussed at the respective Project Boards. Following approval of the resource allocation by the relevant Project Board, the final proposal will be submitted by the Programme Manager for approval by the General Assembly meeting on the 17-18 December 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

- [1] GRANT AGREEMENT, ANNEX 1: WORK PLAN FOR THE IMPLEMENTATION OF THE FUSION ROADMAP IN 2014-2018. See IDM (<https://idm.euro-fusion.org/?uid=2M4SXQ>)
- [2] DRAFT ANNUAL WORK PLAN 2016. See IDM (<https://idm.euro-fusion.org/?uid=2MJZLL>)
- [3] PROJECT MANAGEMENT PLANS FOR IPH WORK PACKAGES. See IDM (<https://user.efda.org/?uid=2M7PAT>)

Contacts

	Project Leader		Responsible Officer	
	Name	Email	Name	Email
WPMST2	Not Applicable		Mikhail Turnyanskiy	Mikhail.Turnyanskiy@euro-fusion.org
WPSA	Gerardo Giruzzi	Gerardo.Giruzzi@cea.fr	Darren McDonald	Darren.McDonald@euro-fusion.org