ITER Physics Work Packages

ANNUAL WORK PLAN 2015 & WORK PLAN 2016-2018

CALL RESPONSE FORM for the Work Package

WPSA: Preparation of exploitation of JT-60SA

# IDENTIFICATION

|  |  |
| --- | --- |
| **Work Package ID** | WP15-IPH-SA |
| **BENEFICIARY** | Beneficiary Name |
| **CONTRACTUAL CONTACT PERSON** | Name / Email / Phone |
| **TECHNICAL CONTACT PERSON** | Name / Email / Phone |

# REFERENCED DOCUMENTS

The following documents provide descriptions for the technical content, key deliverables, milestones, foreseen facilities, opportunities for industrial innovation and training/development opportunities for each Work Package. It is essential that the relevant sections are considered before completing this Call for Participation:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | ***Document Title*** | ***Version*** | ***Section(s)*** | ***Page(s)*** |
|  | GRANT AGREEMENT, ANNEX 1: WORK PLAN FOR THE IMPLEMENTATION OF THE FUSION ROADMAP IN 2014-2018 |  |  |  |
|  | ANNUAL WORK PLAN 2015 – Issue 3 | 25 Sep 2014 | 2.2.10 | 69-72 |
|  | WPSA PROJECT MANAGEMENT PLAN | 1.1 | 4.3, 6.2, 7.3, 8 | 13-21 |

# INTRODUCTION

This document is to be used in conjunction with the EUROfusion ECoM System in order for a Research Unit to respond to the EUROfusion Call for Participation in Work Plan 2014 – 2018 [1], particularly for the Annual Work Plan 2015 [2]. This call is a partial call for work additional to that which was covered in the call for the Annual Work Plan 2014 which included an expression of interest for activities in 2015-2018. **In filling out the sections below, the Research Units shall restrict themselves to the additional activities indicated.**

The purpose of this document is:

* To set out the required roles and associated competencies that are foreseen in order to execute the Project and to help the Project/Task Force Leader with planning.
* To allow Research Units to indicate where they have appropriate resources and competences.
* To allow Research Units to indicate a proposed resource level in professional-person-years per year (ppy/y) in 2015 and their interest and potential contributions to the Work Plan 2016-2018.
* To provide the required input for ECoM.

Finally, please note that no provision for allocation of mission resources is made in the present Call. These will be allocated as detailed in the Project Management Plan (PMP). The indicative budget is ≈9% of the foreseen manpower per project per year (+ missions to the Naka site, Japan, reimbursed on the basis of real costs). However, each Research Unit may fill the box at the end of this document to include its comments on the envisaged needs concerning missions for participation in this Work Package.

# GUIDANCE NOTES FOR SUBMISSION OF THE RESPONSE TO THE CALL

The following notes describe the procedure for completing this document and the related ECoM submission:

1. Fill in the appropriate information in the Identification table in section 1.
2. Read the relevant sections (see section 2) of the Work Plan 2014-2018 and Annual Work Plan 2015.
3. In section 5:
   1. indicate the appropriate human resources and competences available within your Research Unit to participate in the Work Plan 2015 (section 5.1)
   2. if foreseen give a list of activities to subcontract (section 5.2)
   3. supply names and contact details of potential contributors from your Research Unit and Third Parties (section 5.3)
   4. indicate proposed support for hardware but also procurements or use of facilities
4. The total proposed human resources (terracotta box from section 5.1) and hardware (blue box from section 5.4) for the 2015 work plan should also be entered into ECoM in the relevant boxes.
5. In section 6, indicate your interest and potential contributions to the Work Plan deliverables for 2016-2018, including the estimates for ppy
6. In section 7, quote up to 5 publications in the field relevant for the Work Package published by your Research Unit or Third Parties
7. In section 8, give any additional comments or describe requirements your Research Unit would like to express and that are necessary to contribute to this Work Package.

# DESCRIPTION OF INSTITUTION’S PARTICIPATION IN 2015 WORK PLAN

### 5.1 Personnel

Briefly describe the relevant competences of the proposed staff and their experience relevant for the **deliverables in 2015 Work Plan.** The particular staff members expected to participate in the work package may be indicated. Briefly describe any additional support the institution or the candidate's research group can provide or other related activities that may strengthen the proposal.

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| --- | --- | --- | --- |
| **Competency required for this Work Package** | | **Brief description of relevant competences and experience (max. 200 words)** | **ppy 2015[[1]](#footnote-1)**  (total available 2ppy[[2]](#footnote-2)) |
| **Name** | **Description** |
| **Pellet injection system** | | | |
| Activity manager | expertise on design, construction and operation of a pellet injection system |  |  |
| Pellet injection modeller | expertise in the modelling of pellet injection in tokamak plasmas, including comparison with the experiments. This is necessary in order to define the requirements of the JT-60SA pellet system |  |  |
| Pellet system technology expert | expertise on design, construction and operation of a pellet injection system |  |  |
| **W divertor feasibility study** | | | |
| Activity manager | expertise on the integration and operation of W PFC in fusion machines |  |  |
| W PFC technology expert | expertise in the design of W PFC and their integration in a fusion machine |  |  |
| Plasma-wall interaction expert | expertise in the plasma-wall interaction physics, both theory and experiments, with specific experience on W PFC modelling and operation |  |  |
|  |  | **TOTAL**  *(to be entered also in ECoM –row A)* |  |

### 5.2 List of proposed activities to subcontract

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### 5.3 Indicative list of potential contributors

List potential contributors (members of your Research Unit or Third Party) to be involved in this Work Package. Give details of at least one person who can act as a contact person for the Project Leader.

|  |  |  |
| --- | --- | --- |
| **Name** | **Email** | **Phone Number** |
| **Contact Person:** |  |  |
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# EXPRESSION OF INTEREST IN FUTURE WORK PLAN 2016-2018

### 6.1 Personnel

In the areas of the new activities indicated above, please indicate your interest and potential contributions to the future Work Plan 2016-2018 deliverables, including the indicative ppy envisaged. Describe the additional support the institution or the candidate's research group can provide or other related activities that may strengthen the activity in the future.

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| --- | --- | --- | --- | --- |
| **Competence** | **Indicative human resource budget profile (ppy)** **[[3]](#footnote-3)** | | | |
| **2016**  (2 ppy[[4]](#footnote-4)) | **2017**  (2 ppy5) | **2018**  (2 ppy5) | **2015-2018 TOTAL**  (8 ppy[[5]](#footnote-5)) |
| **Pellet injection system** | | | | |
| Activity manager |  |  |  |  |
| Pellet injection modeller |  |  |  |  |
| Pellet system technology expert |  |  |  |  |
| **W divertor feasibility study** | | | | |
| Activity manager |  |  |  |  |
| W PFC technology expert |  |  |  |  |
| Plasma-wall interaction expert |  |  |  |  |
| **Total** |  |  |  |  |

**Additional support and related activities (see above, max 200 words):**

# Summary of relevant publications

Please indicate the publications most relevant for this Work Package, up to a maximum of 5, published by your Research Unit in the last 5 years.

|  |  |  |
| --- | --- | --- |
| **Title** | **Author(s)** | **Year of Publication** |
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# ADDITIONAL COMMENTS AND REQUIREMENTS

Please add, if necessary, additional comments or describe requirements your Research Unit would like to express and that are necessary to contribute to this Work Package.

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| See the comments under section 6.1. Individuals are not named at this stage. |

1. To also include subcontractors (i.e. affiliated Universities, etc.) [↑](#footnote-ref-1)
2. Total available ppy is the foreseen total ppy for all Research Units participating in this Work Package [↑](#footnote-ref-2)
3. To also include resources made available by Linked Third Parties or Third Parties providing in-kind contribution [↑](#footnote-ref-3)
4. Foreseen available ppy for all Research Units participating in this Work Package for the given year [↑](#footnote-ref-4)
5. Foreseen available ppy for all Research Units participating in this Work Package for the years 2015 to 2018

   [↑](#footnote-ref-5)