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| **WPPWIE Deliverables Status Report** | | | | | **Date:** | | | 01-Sep-2022 | | |
| **Subproject:** | SP-ADC /  *Advanced Divertor Solutions for Power Exhaust in DEMO* | | | | **Deliverable ID** | | | PWIE-SP ADC.H.T-T002-D001/D002/D003 | | |
| **Deliverable owner:** | R. Ambrosino / G. Ramogida / R. Lombroni (ENEA) | | | | **Deliverable due date** | | | 31-12-2022 | | |
| **WP Leader:**  **SP Coordinator:** | S. Brezinsek (FZJ)  G. Calabrò (ENEA) | | | |  | | |  | | |
| **Task title:** | SP-ADC.H / Engineering boundary conditions related to DTT as ADC test-bed | | | | | | | | | |
| **Deliverable title:** | Engineering compatibility of best promising configurations described in WP ADC-DTT’s final report for DTT facility: recommendations for control and equilibria design (ENEA)  Engineering compatibility of best promising configurations described in WP ADC-DTT’s final report for DTT facility: recommendations for VDE and disruption consequences (ENEA) | | | | | | | | | |
| **Status:** |  | **Completed** |  | **Partially completed** | |  | **Delayed** | |  | **Cancelled** |
| Please write a short status report (max. ½ pages) here.  Please check the status of the deliverable(s) with a “x” in the row above.  If the deliverable(s) are delayed, please also indicate an estimated completion date in the report text.  If the deliverable(s) include machine time, please indicate the number of days that have been used for the deliverable(s) in the report text.  For reference, the specification of this task from the PMP is given below. | | | | | | | | | | |
| **Reference from PMP:** | | | | | | | | | | |
| The SP-ADC are addressing the physics work regarding the advanced divertor solutions for DEMO and the compatibility with engineering constraints. The engineering part focus on the compatibility with DEMO constraints in view of configurations, stability, and thermomechanical and electromagnetic loads; the work is coordinated with the FTD. Compatibility of potential DEMO ADC solutions with DTT will be also investigated. Subproject SP-ADC.H will explore engineering DTT compatibility exploitation for ADC configurations. Assessment of controllability of ADC configuration, in connection with WPs DES and DIV, taking into account engineering constrains will be investigated. | | | | | | | | | | |
| **Inputs required:**   * DEMO ADC equilibria configurations (delivered by WP ADC-DTT’s final report)   Recommendations for engineering aspects of DEMO VS control (delivered by WP ADC-DTT’s final report and WP PMI 2020 reports, in particular KDII#3 final report) | | | | | | | | | | |
| **Tasks to be performed:**  Engineering boundary conditions related to DTT as ADC test-bed (i.e. best promising configurations described in WP ADC-DTT’s final report) | | | | | | | | | | |
| **Deliverables:**   |  |  | | --- | --- | | *Deliverable ID:* | *Deliverable Title:* | | D001, D002 | Engineering compatibility of best promising configurations described in WP ADC-DTT’s final report for DTT facility: recommendations for control and equilibria design (ENEA) | | D003 | Engineering compatibility of best promising configurations described in WP ADC-DTT’s final report for DTT facility: recommendations for VDE and disruption consequences (ENEA) | | | | | | | | | | | |
| **Management Information**  **Human Resources (2022)**:   |  |  |  |  | | --- | --- | --- | --- | | **Deliverable Owner** | **Beneficiary** | **PM** | **Deliverable (Team)** | | R. Ambrosino | ENEA | 7 | D001 (G. Ramogida, R. Lombroni, F. Giorgetti, P. Fanelli) | | G. Ramogida | ENEA | 1 | D002 (R. Ambrosino, R. Lombroni, F. Giorgetti, P. Fanelli) | | R. Lombroni | ENEA | 7 | D003 (R. Ambrosino, G. Ramogida, F. Giorgetti, P. Fanelli) | | **Total** |  | 15 |  |   **Machine Resources (2022):**   |  |  |  |  | | --- | --- | --- | --- | | **Device** | **Beneficiary** | **Days** | **Related Deliverable** | | n.a. |  |  |  | |  |  |  |  |   **Other resources:**  **Collaborations:**   * WPTE, WPDES * EU-CHINA   **Other information:**  Connected to TSVVs associated with WPPWIE | | | | | | | | | | |