

PLASMA-SURFACE INTERACTIONS IN THE STELLARATOR W7-X: CONCLUSIONS DRAWN FROM OPERATION WITH GRAPHITE PLASMA-FACING COMPONENTS

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Erosion / Deposition Measurements Utilising Marker Divertor Target Elements

Multiple divertor target elements with Mo interlayer and C marker for net erosion / depositon information installed per campaing. 2 locations on the vertical and 3 locations on the horizontal target plate in each of the ten half modules.



Initial plasma operation (OPA) compromised by high impurity content (O, C) and H outgassing

- residual water in graphite released during PFC heat-up by plasma impact
- physical and chemical sputtering of graphite by O and H as well as C self sputtering

those of the European Commission.