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Environmenta,l steam-ingress and gamma irradiation tests for optical materials candidates for ITER equatorial-Vis/IR-WAVS diagnostic

Monday, 17 September 2018 11:00 (2 hours)

To validate the design of Equatorial Vis/IR WAVS (Wide Angle Viewing System) diagnostic it is necessary to test materials and coatings of optical components and to characterize their behavior under the harsh environment of ITER (in particular in terms of radiation and temperature). The objective of this work is to summarize the results of the different tests: environmental (temperature, air, vacuum, steam-ingress) and gamma irradiation, carried out in different materials (candidates for port plug and optical hinge mirrors, vacuum window, field lens and beam splitters), in order to provide information for choosing relevant optical materials for this diagnostic.

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