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P4.226 The monitoring and determination of Beryllium contamination at HELCZA facility

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This paper presents application and optimization of the method for the quantification of beryllium dust particles in experimental complex HELCZA (High Energy Load Czech Assembly) by selected available analytical instruments mainly by portable fluorometry as a procedure ensuing from the NIOSH (National Institute for Occupational Safety and Health) method. The experimental complex HELCZA, a high heat flux test facility (HHFTF), is designed for cyclic heat loading for testing ITER plasma-facing components, for example, the first wall panels. These tests go along with the need to control the airborne particles of beryllium because the accurate knowledge of present beryllium in the workplace is crucial considering its high toxicity. With HELCZA being put into operation, the great attention is dedicated to safety procedures including to measure beryllium dust particles.

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