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Development of primary system for calibration of torque measuring instruments

Alencar, M.C.(1); Mucsi, C.S.(1); Gomes, C.D.(2); Reis, L.A.M.(1); Souza, M.M.(1); Rossi, J.L.(1);

Instituto de Pesquisas Energéticas e Nucleares(1); Instituto de Pesquisas Energéticas e Nucleares(2); Tüv Rheinland do Brasil(3); Instituto de Pesquisas Energéticas e Nucleares(4); Instituto de Pesquisas Energéticas e Nucleares(5); Instituto de Pesquisas Energéticas e Nucleares(6);

The importance of torque measurement is already known in the academic, scientific and industrial, but the reliability of these measurements can be questioned when the equipment has no calibration. That's why the periodic calibration of such equipment is essential to ensure that the measurements that will be performed on this instrument are trusted. With that comes the proposal of building a device for calibration of torque measuring instruments, where we had the premise of the development of a primary system torque generation, so that we can calibrate torque measuring instruments of any class of accuracy. The development followed mechanical and geometrical construction standards to ensure the best design and balance between the positions of load application. In conjunction with torque application system was scaled and constructed a set of calibrated masses, He served as charge for applying torque, so we can define precisely the value of the torque to be applied.