NDT ACTIVITIES AT CEKMECE NUCLEAR RESEARCH AND TRAINING CENTER

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Nondestructive testing (NDT) activities at Cekmece Nuclear Research and Training Center (CNAEM) has been initiated in the Industrial Application Department of the Center which was established in 1976 as the Industrial Applications Group of Radioisotopes. The Department started its first NDT activity with industrial radiography and took the name Industrial Section in 2006. The NDT activities have been developed by the support of various national (State Planning Organization (DPT)) and international (IAEA and UNDP) projects. Today, there are six conventional NDT methods (radiography, ultrasonic, magnetic particle, liquid penetrant, eddy current and visual examination) and two digital techniques (digital radiography and digital ultrasonic) used in the Industrial Section. The Section arranges routinely NDT qualification and certification courses for Turkish Industry in 6 basic NDT techniques according to TS EN 473 standard and PED/97/23/ EC directives in cooperation with TÜV NORD/TÜV CERT for level 1, 2 and 3. The Division also gives NDT services in the laboratory and in the site. Forensic materials are also subjected to pre-examination by NDT techniques before a detailed elemental analysis. This paper describes the NDT activities carried out at CNAEM.