

Preview of the New Developments Underway in the Division of Radiation Physics

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NIST's Radiation Physics Division occupied the new Building 245 H-wing facilities in late 2020, but facilities and calibration services in the H wing are still completing recertification and becoming available. This talk will focus on four of the new facilities in the H wing and their capabilities. The *Instrument Testing Facility* allows reproducible and traceable characterization of detectors for, in general, homeland security applications. The *Low Energy Electron Beam (LEEB) Facility* facilitates dosimetry for electron beams between 100 kV and 300 kV, where shallow penetration depths make dose quantification difficult. The *X-Ray Calibration Facility* has a variety of source spectra and filters to provide a variety of beam qualities for calibration of ionization chambers. Finally, the *Transition Edge Sensor (TES)* laboratory houses an innovative under-development cryogenic detector system for activity measurements. For each facility the current status and capabilities will be discussed.