



Designation: E 1411 – 9501

An American National Standard

Standard Practice for Qualification of Radioscopic Systems¹

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1. Scope

1.1 This practice provides test and measurement details for measuring the performance of X-ray and Gamma ray radioscopic systems. Radioscopic examination applications are diverse. Therefore, system configurations are also diverse and constantly changing as the technology advances.

1.2 This practice is intended as a means of initially qualifying and re-qualifying a radioscopic system for a specified application by determining its performance level when operated in a static mode. System architecture including the means of radioscopic examination record archiving and the method for making the accept/reject decision are also unique system features and their effect upon system performance must be evaluated.

1.3 The general principles, as stated in this practice, apply broadly to transmitted-beam penetrating radiation radioscopic systems. Other radioscopic systems, such as those employing neutrons and Compton back-scattered X-ray imaging techniques, are not covered as they may involve equipment and application details unique to such systems.

1.4 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.* For information on safety requirements, refer to the applicable documents listed in Section 2.

2. Referenced Documents

2.1 ASTM Standards:

¹ This practice is under the jurisdiction of ASTM Committee E-7 E07 on Nondestructive Testing and is the direct responsibility of Subcommittee E07.01 on Radiology (X and Gamma) Method.

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