

	<b>DEPARTMENT OF COMMERCE</b> National Institute of Standards and Technology National Voluntary Laboratory Accreditation Program	<b>ISSUE DATE:</b> November 13, 2019
	<b>LAB BULLETIN</b>	<b>NUMBER:</b> LB-114-2019
		<b>LAP:</b> Ionizing Radiation Dosimetry
<b>SUBJECT:</b> Release of NIST Handbook 150-4, 2019 Edition		

NIST Handbook 150-4, which represents the technical requirements for the accreditation of laboratories under the NVLAP Ionizing Radiation Dosimetry Laboratory Accreditation Program, has been revised. The new edition incorporates changes resulting from the release of ISO/IEC 17025:2017, *General requirements for the competence of testing and calibration laboratories*, and was revised with the participation of technical experts in the field of ionizing radiation dosimetry analysis.

The following are the primary changes that have been made with this revision of Handbook 150-4:

- The numbering has been updated to reflect that used by ISO/IEC 17025:2017, General requirements for the competence of testing and calibration laboratories.
- References to applicable standards and guidance documents have been updated.
- Sections 3.4.1.2(b) and 3.4.2.1(b) in Proficiency Testing, 7.5.2 in Technical Records, 8.8.5 in Internal Audits, and 8.9.6 in Management Reviews are new requirements.
- Wording changes for clarification have been made where needed.

This is only a summary of the major revisions. Laboratories are responsible for reviewing the entire document and implementing all requirements.

When the management system of a laboratory does not follow the numbering in ISO/IEC 17025:2017, the laboratory shall provide a mapping between the two numbering systems (crosswalk). Implementation of the crosswalk, when applicable, shall be for assessments occurring 60 days from the date of issuance of this lab bulletin.

The 2019 edition of NIST Handbook 150-4 supersedes and replaces the 2005 edition. It is available for downloading (PDF format) from the NVLAP website <http://www.nist.gov/nvlap> under Publications and Forms.

The NIST Handbook 150-4 Checklist has also been updated and posted on the NVLAP website under Accreditation Programs/Ionizing Radiation Dosimetry.

Questions concerning the revised handbook or requirements for accreditation should be directed to Derek L. Ho, program manager, at 301-975-4023 or [derek.ho@nist.gov](mailto:derek.ho@nist.gov).