



October 1, 2010

MEMORANDUM FOR: NIST Measurement Services Advisory Group (MSAG)
William Anderson, Chair

From: Sally Bruce, Chair *Sally Bruce*
NIST Assessment/Review Board (ARB)

Subject: Recommendation for the MSAG to declare Division 846's Measurement Services in Conformance with the NIST Quality Systems

Upon review of the recent assessment findings and corrective actions for Division 846: Ionizing Radiation and review of their quality management system, the members of the ARB voted to approve the conformance of the NIST Ionizing Radiation Measurement Services to the NIST Quality System. The following list of services is approved by the ARB and represents the Division's offering of calibrations and standard reference materials.

Calibration Services

- 43010C Gamma-Ray-Emitting Solution Sources (Half Lives Greater than 15 days)
- 43020C Gamma-Ray Emitting Solution Sources (Half Lives Less than 15 days)
- 43030C Alpha-Particle-Emitting Solid Sources, NIST 2 π alpha Proportional Counter
- 43040C Alpha-Particle-Emitting Solid Sources, NIST 0.8 π alpha Defined-Solid-Angle Counter
- 43050C Alpha-Particle-Emitting Solid Sources, NIST 0.8 π alpha Defined-Solid Angle Counter
- 44010C Radioactive Neutron Sources (Low) Emission Rates
- 44020C Radioactive Neutron Sources (High) Emission Rates
- 44060C Neutron Personnel Dosimetry
- 46010C Calibration of Gamma-Ray Radiation Detectors
- 46011C Calibration of X-Ray Radiation Detectors
- 46020C Passive Dosimeters – Irradiation of Up to Six, One Beam Quality at One Set-up
- 46110C Absorbed-Dose-To-Water Calibrations for Ionization Chambers
- 47010C Gamma-Ray Sources, Co-60, Cs-137, Ir-192
- 47020C Low-energy Photon Brachytherapy Seeds, 125I, 103Pd
- 47030C Beta-Particle Sources Calibrated for Surface Dose Rate
- 47035C Protection-Level Beta Particle Source & Instrument Calibrations
- 47036C Protection-Level Beta Particle Source & Instrument Calibrations
- 49010C Calibration Irradiations of Customer Supplied Dosimeters with Co-60 Gamma- Rays
- 49011C Calibration Irradiations of Customer Supplied Dosimeters with Co-60 Gamma-Rays, Additional Irradiations
- 49015C Calibration Irradiations of Customer Supplied Dosimeters with Co Gamma- Rays, Non-Ambient Temperature Irradiations



- 49016C Calibration Irradiations of Customer Supplied Dosimeters with Co Gamma- Rays,
Additional Non-Ambient Temperature Irradiation
49020C Dose Interpretation of NIST Transfer Dosimeters Irradiated by Customer
49030C Dose Interpretation of NIST Transfer Dosimeters, Each Additional

Standard Reference Materials (SRMs)

Radioactivity Standard Reference Materials
Natural-Matrix Radionuclide Standard Reference Materials

Approved: *Walter Stule*
10/28/10

cc: file: NVLAP