

CERTIFICATE OF CALIBRATION
TECHNICAL ASSOCIATES METROLOGY LAB

DATE OF CALIBRATION: APRIL 28, 2011

This report Certifies that Technical Associates Metrology Lab has calibrated said instrument and hereby attests to its sensitivity to the Isotopes listed below:

MANUFACTURE: Technical Associates Model: NEXGEN-SSS

SERIAL #: 011816

DESCRIPTION: NEXGEN-SSS Tritium DETECTOR measures Tritium activity in water utilizing a 30 cc flow-through measurement chamber. The manufacturer recommends this monitor for measuring Tritium emitters in drinking water.

Environmental Conditions during Calibration:

Temperature: 78° F **%R/H:** 29%
Barometric Pressure: 29.10 Hg **Background Radiation:** 0.01 mR/hr

Instrument Operating Parameters:

NEX-Tritium HV setting: PMT "A" 310 V, PMT "B" 310 V
NEX-Tritium Window Setting 100 to 800 mV

Readings Taken in "Co-Incidence Mode"

Calibration Sources:

H-3 0.3 uCi/L **S/N#:** H-3 VA22412

Background Count Rate with Clean Water:

H-3 **Net Count Rate:** 175.8 CPS

Counts Collected for 30 Seconds

CONVERSION FACTOR = 1,723.5 pCi/L/LPS

Calibration Limitations: There were no observed limitations during the calibration of this instrument. The sources used for this calibration consisted of H-3 (T₂O, H₂O in distilled water.)

Measurement Uncertainty: 2%

Overall Uncertainty: 5%

Calibrated by : R.I. Goldstein

Date: April, 2011

Signature: *R.I. Goldstein*

R.I. Goldstein, Chief Metrologist



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