

THE DEPARTMENT OF ENERGY LABORATORY ACCREDITATION PROGRAM (DOELAP) TRITIUM PILOT TEST FOR RADIOBIOASSAY.

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The Department of Energy Laboratory Accreditation Program (DOELAP) for Radiobioassay is administered and conducted by the Radiological Environmental Sciences Laboratory (RESL) for EH-52, OWPP&HM. The amended 10 CFR 835 requires all DOE Laboratories or Laboratories performing radiobioassay analyses for DOE to be DOELAP accredited.

The HPS N13.30-1996 "Performance Criteria for Radiobioassay" is the Standard used by The DOELAP for Radiobioassay. The passing criteria and measurement categories are listed in this standard. The Performance Testing Laboratory (PTL) at the RESL has not offered the low-energy beta test category (tritium in artificial urine) in the past. It is important to evaluate the testing category and resolve any problems in administering the category before offering it to participants as part of performance testing leading to accreditation.

Five of the six participants for the Pilot Test were U.S. DOE Laboratories provide the radiobioassay of tritium in urine as part of the worker safety programs at the sites. The sixth laboratory that participated was the RESL. Of the six laboratories, all passed the performance criteria for analyzing tritium in artificial urine.

In the future the PTL will offer accreditation in all measurement categories listed in the ANSI N13.30 pertinent to U.S. DOE Laboratories.