9.0 References

American National Standards Institute (ANSI). 1975. American National Standard Performance, Testing, and Procedural Specifications for Thermoluminescent Dosimetry (Environmental Applications). ANSI N545, American National Standards Institute, New York.

American National Standards Institute (ANSI). 1981. Dosimetry for Criticality Accidents. ANSI N13.3, American National Standards Institute, New York.

American National Standards Institute (ANSI). 1986. Criticality Accident Alarm System. ANSI N8.3, American National Standards Institute, New York.

Antonio, E. J. 1999. "External Radiation Surveillance" in Hanford Site Environmental Report for Calendar Year 1998. PNNL-12088

Baumgartner, W. V., A. W. Endres, and S. R. Reese. 1992. Quality Control Program for the Hanford External Dosimetry Thermoluminescent Processing System. PNL-8299, Pacific Northwest Laboratory, Richland, Washington.

Becker, K., J. S. Cheka, and M. Oberhofer. 1970. "Thermally Stimulated Exoelectron Emission, Thermoluminescence and Impurities in LiF and BeO," Health Phys. 18, 1970.

Bicron♦NE, 1999. Dose Algorithm: BGN-DOELAP User's Manual, Publication No. ALGM-DN-U-0298-001, Pre-Release Date, March 11, 1999, Chapter 8, pages 14-17.

Brackenbush, L. W., W. V. Baumgartner, and J. J. Fix. 1991. Response of TLD-Albedo and Nuclear Track Dosimeters Exposed to Plutonium Sources. PNL-7881, Pacific Northwest Laboratory, Richland, Washington.

Brackenbush, L. W., G. W. R. Endres, J. M. Selby, E. J. Vallario. 1980. Personnel Neutron Dosimetry at Department of Energy Facilities. PNL-3213, Pacific Northwest Laboratory, Richland, Washington.

Bramson, P. E. 1962. Hanford Criticality Dosimeter. HW-71710, General Electric Company, Richland, Washington.

Cameron, J. R., N. Suntharalingham and G. N. Kenney. 1968 Thermoluminescent Dosimetry, University of Wisconsin Press

Cortez, J. R., E. Storm, G. J. Littlejohn. 1977. Photon and Beta Response of a New Thermoluminescent Dosimeter Badge, LA-UR-77-3001, Los Alamos Scientific Laboratory, Los Alamos, New Mexico.

Cross, W. G., P. Y. Wong, and N. O. Freedman. 1991. "Dose Distributions for Normally Incident Beta Rays." Radiation Protection Dosimetry 35(2):77-91.

Denham, D. H., R. L. Kathren, J. P. Corley. 1972. A CaF_2:Dy Thermoluminescent Dosimeter for Environmental Monitoring. BNWL-SA-4191. Pacific Northwest Laboratory, Richland, Washington.

Doremus, S. W. and G. A. Higgins, 1994 "Pre-Irradiation Fade and Post-Irradiation Fade for LiF:Mg, Ti, TLD-600 and TLD-700, as a Function of Time" Radiation Protection Dosimetry, Vol 54, No. 2, pp 119-125.

Douglas, J. A. 1981. “Applications of TL Materials in Neutron Dosimetry” in Applied Thermoluminescence Dosimetry, (M. Oberhofer and A. Scharmann, editors) Adam Hilger Ltd. 1981.

Durham, J. S. 1992. VARSKIN MOD2 and SADDE MOD2: Computer Codes for Assessing Skin Dose from Skin Contamination. NUREG/CR-5873, PNL-7913, Pacific Northwest Laboratory, Richland, Washington.

Endres, A. W., L. W. Brackenbush, W. V. Baumgartner, J. J. Fix, and B.A. Rathbone. 1996. Response of Hanford Combination Neutron Dosimeter Exposed to Plutonium Sources. PNNL-10516, Pacific Northwest National Laboratory, Richland, Washington.

Fix, J. J., J. M. Hobbs, P. L. Roberson, D. C. Haggard, K. L. Holbrook, M. R. Thorson, F. M. Cummings. 1982. Hanford Personnel Dosimeter Supporting Studies FY-1981. PNL-3736. Pacific Northwest Laboratory, Richland, Washington.

Fix, J. J., W.H. Wilson, and W. V. Baumgartner. 1996. Retrospective Assessment of Personnel Neutron Dosimetry for Workers at the Hanford Site. PNNL-11196, Pacific Northwest National Laboratory, Richland, Washington.

Fix, J. J., E. S. Gilbert, and W. V. Baumgartner. 1994. An Assessment of Bias and Uncertainty in Recorded Dose From External Sources of Radiation For Workers at the Hanford Site. PNL-10066, Pacific Northwest Laboratory, Richland, Washington.

Fix, J. J., G. W. R. Endres, F. M. Cummings, J. M. Aldrich, M. R. Thorson, R. L. Kathren. 1981. Hanford Personnel Dosimeter Supporting Studies FY-1980. PNL-3536, Pacific Northwest Laboratory, Richland, Washington.

Glenn, R. D., and P. E. Bramson. 1977. The Hanford Critical Radiation Dosimeter. PNL-2276, Pacific Northwest Laboratory, Richland, Washington.

Grosswendt. 1990. "Conversion Coefficients for Calibrating Individual Photon Dosimeters in Terms of Dose Equivalents in an ICRU Tissue Cube and PMMA Slabs." Radiation Protection Dosimetry 32(4):215-231.

Harshaw/Filtrol TLD System 8800 Card Reader User's Manual for Use with Radiation Evaluation and Management System (REMS). 1988. Harshaw/Filtrol, Solon, Ohio.

Health Physics Society (HPS). 1996a. American National Standard Performance Testing of Extremity Dosimeters. HPS N13.32, American National Standards Institute, New York.

Health Physics Society (HPS). 1996b. American National Standard for Dosimetry , Environmental Dosimetry Performance - Criteria for Testing. HPS N13.29 (Draft), American National Standards Institute, New York.

Health Physics Society (HPS). 1993. American National Standard for Dosimetry - Personnel Dosimetry Performance Criteria for Testing. HPS N13.11, Health Physics Society, McLean, Virginia.

Health Physics Society (HPS). 1997. American National Standard – Criteria for Performing Multiple Dosimetry. HPS N13.41-1997, Health Physics Society, McLean, Virginia

Horowitz, Y. S. 1984. Thermoluminescence and Thermoluminescent Dosimetry. CRC Press, Inc., Boca Raton, Florida

International Atomic Energy Agency (IAEA). 1982. Dosimetry for Criticality Accidents, A Manual. Technical Report Series No. 211, IAEA, Vienna, Austria.

International Commission on Radiation Units and Measurements (ICRU). 1976. Conceptual Basis for the Determination of Dose Equivalent. ICRU Report 25, Bethesda, Maryland.

International Commission on Radiation Units and Measurements (ICRU). 1988. Determination of Dose Equivalents from External Radiation Sources - Part 2. ICRU Report 43, Bethesda, Maryland.

International Commission on Radiation Units and Measurements (ICRU). 1992. Measurement of Dose Equivalents from External Photon and Electron Radiations. ICRU Report 47, Bethesda, Maryland.

International Commission on Radiation Units and Measurements (ICRU). 1993. Quantities and Units in Radiation Protection Dosimetry. ICRU Report 51, Bethesda, Maryland.

International Commission on Radiological Protection (ICRP). 1974. Report of the Task Group on Reference Man. ICRP Publication 23. Pergamon Press, New York.

International Commission on Radiological Protection (ICRP). 1977. Recommendations of the ICRP. ICRP Publication 26, New York, New York.

International Commission on Radiological Protection (ICRP). 1987. Data for Use in Protection Against External Radiation. ICRP Publication 51, New York, New York.

International Commission on Radiological Protection (ICRP). 1996. Conversion Coefficients Use in Radiological Protection Against External Radiation. ICRP Publication 74, New York, New York.

Johnson, T. L. , and R. B. Luersen. 1980. "Fading of Unannealed LiF (TLD 600) for Thermal Neutrons and Gamma Rays" Health Physics Vol 388 pp 853-856.

McDonald, J. C., J. E. Tanner, R. D. Stewart, R. Michel, M. K. Murphy and R. J. Traub. 1995. "Effect of Phantom Size and Composition on Neutron Dosimeter Reading," Radiation Protection Dosimetry Vol 59, pp 263-268 (1995)

McKeever, S. W. S., M. Moscovitch and P. D. Townsend. 1995. Thermoluminescence Dosimetry Materials: Properties and Uses, Nuclear Technology Publishing

McKinlay, A. F. 1981. Thermoluminescence Dosimetry. Adam Hilger, Ltd., Bristol, England.

Moscovitch, M. 1999. "Personnel Dosimetry Using LiF:Mg,Cu,P", Radiation Protection Dosimetry, Vol. 85, pp. 49-56.

Moscovitch, M. and J. E. Rotunda. 1996. Multi-Element Dosimetry System Using Neural Network. U.S. Patent Number 5,572,028, U.S. Patent Office

National Council on Radiation Protection and Measurements (NCRP). 1971. Protection Against Neutron Radiation. NCRP Report No. 38, Bethesda, Maryland.

National Council on Radiation Protection and Measurements (NCRP). 1978 Instrumentation and Monitoring Methods for Radiation Protection, NCRP Report No. 57, Bethesda, Maryland

National Council on Radiation Protection and Measurements (NCRP). 1989. Limit for Exposure to "Hot Particles" on the Skin. NCRP Report No.106, Bethesda, Maryland.

National Council on Radiation Protection and Measurements (NCRP). 1992. Maintaining Radiation Protection Records. NCRP Report No. 114, Bethesda, Maryland.

National Council on Radiation Protection and Measurements (NCRP). 1995. Use of Personal Monitors to Estimate Effective Dose Equivalent and Effective Dose To Workers for External Exposure to Low-LET Radiation. NCRP Report No. 122, Bethesda, Maryland.

Rathbone, B. A., A. W. Endres, E. J. Antonio. 1994. Evaluation of New and Conventional Thermoluminescent Phosphors for Environmental Monitoring Using Automated Thermoluminescent Dosimeter Readers, Proceedings of Fourth Conference on Radiation Protection and Dosimetry, ORNL/TM-12817.

Oberhofer M. and A. Scharmann (editors). 1979. Applied Thermoluminescent Dosimetry. p 208, Adam Hilger Ltd, Bristol, England.

Robertson, M.E.A., and W.B. Gilboy. 1971. Studies of the Thermoluminescence of Lithium Fluoride Doped with Various Activators, Proc. Third Int. Conf. Luminescence Dosimetry, Rï so-Rep, 249, Vol. 1, Danish AEC, Rï so, Roskilde, Denmark.

Scherpelz, R. I., J. J. Fix, and B. A. Rathbone, 2000. Validation of Hanford Personnel and Extremity Dosimeters in Plutonium Environments, PNNL-12136, Pacific Northwest national Laboratory, Richland, Washington

Schwartz, R. B., and C. M. Eisenhauer. 1982. Procedures for Calibrating Neutron Personnel Dosimeters, NBS Special Publication 633, U.S. Department of Commerce/National Bureau of Standards, Washington, DC.

Storm, E., P. L. Buslee, A. W. Blackstock, G. J. Littlejohn, J. R. Cortez, R. V. Fultyn, and J. N. P. Lawrence. 1981. AThe Los Alamos Thermoluminescence Dosimeter Badge.@ Radiation Protection Dosimetry 1 (3): 209-219.

Tawil, R. A., K. J. Velbeck, J. E. Rotunda, C. Flory, and M. Moscovitch. 1993. "A System for Environmental Monitoring." Radiation Protection Dosimetry 47(1/4):317-321.

U.S. Department of Energy (DOE). 1986a. Department of Energy Standard for the Performance Testing of Personnel Dosimetry Systems. DOE/EH-0027, Washington D.C.

U.S. Department of Energy (DOE). 1986b. Handbook for the Department of Energy Accreditation Program for Personnel Dosimetry Systems. DOE/EH-0026, Washington D.C.

U.S. Department of Energy (DOE). 1994. Quality Assurance Requirements. U.S. Code of Federal Regulations, Title 10 Part 830.120, Vol 59, No. 65, pp. 15851-53.

U.S. Department of Energy (DOE) 1998a. The Department of Energy Laboratory Accreditation Program Administration. DOE-STD-1111-98

U.S. Department of Energy (DOE) 1998b. Guide of Good Practices for Occupational Radiological Protection in Plutonium Facilities. DOE-STD-1128-98

U.S. Department of Energy (DOE). 1998c. Occupational Radiation Protection.. Federal Register. Title 10 Part 835. U.S., Code of Federal Regulations, Vol. 63, No. 213, 59662-59689.

U.S. Department of Energy (DOE). 1999a. Evaluation and Control of Radiation Dose to the Embryo/Fetus Guide. DOE G 441.1-6, Washington, D.C.

U.S. Department of Energy (DOE). 1999b. External Dosimetry Program Guide. DOE G 441.1-4, Washington, D.C.

U.S. Department of Energy (DOE). 1999c. Radiological Control. DOE-STD-1098-99, Washington, D.C.

U.S. Nuclear Regulatory Commission (NRC). 1977. Performance, Testing, and Procedural Specifications for Thermoluminescence Dosimetry: Environmental Applications. Regulatory Guide 4.13, Washington, D.C.

Vasilik, D. G., and R. W. Martin. 1981a. The Los Alamos Personnel and Area Criticality Dosimeter Systems. LA-8848-MS, Los Alamos Scientific Laboratory, Los Alamos, New Mexico.

Vasilik, D. G., and R. W. Martin. 1981b. Nuclear Accident Dosimetry: Los Alamos Measurements at the Seventeenth Nuclear Accident Dosimetry Intercomparison Study at the Oak ridge National Laboratory DOSAR Facility, August 1980. LA-8799-MS, Los Alamos Scientific Laboratory, Los Alamos, New Mexico.

Wilson, R. H., J. J. Fix, W. V. Baumgartner, and L. L. Nichols. 1990. Description and Evaluation of the Hanford Personnel Dosimeter Program From 1944 Through 1989. PNL-7447, Pacific Northwest Laboratory, Richland, Washington.

Wilson, R. H. 1962. A Method for Immediate Detection of High Level Neutron Exposure by Measurement of Sodium-24 in Humans. HW-73891 Rev. General Electric, Richland, Washington.

Wilson, R. H. 1987. Historical Review of Personnel Dosimetry Development and its Use in Radiation Protection Programs at Hanford. PNL-6125, Pacific Northwest Laboratory, Richland, Washington.