

JOHN E. TILL, PH.D.
RISK ASSESSMENT CORPORATION

Education

Ph.D., Nuclear Engineering, Georgia Institute of Technology, Atlanta, Georgia, 1976
M.S., Health Physics, Colorado State University, Fort Collins, Colorado, 1972
U.S. Naval Nuclear Propulsion Program, Submarine Force. Three schools consisting of Nuclear Power School, Mare Island, California; S5G Prototype NPTU, Idaho Falls, Idaho; Submarine School, Groton, Connecticut
B.S., Engineering (with distinction), U.S. Naval Academy, Annapolis, Maryland, 1967

Professional Experience

Risk Assessment Corporation (formerly *Radiological Assessments Corporation*)
President/Owner, Neeses, South Carolina (1977–present)

Owner and president of Risk Assessment Corporation, Inc. (formerly *Radiological Assessments Corporation*), which focuses on the analysis of exposure and dose from radionuclides and chemicals released to the environment. Completing research contracts for the Environmental Protection Agency, Chem-Nuclear Corporation, Oak Ridge National Laboratory, Battelle Pacific Northwest Laboratory, Du Pont Company, University of Utah, Centers for Disease Control and Prevention, Colorado Department of Public Health and Environment, Department of Justice, the New Mexico Department of Environment, Pueblo de San Ildefonso, Battelle Memorial Institute among others.

Embeford Farm

President/Owner (1000-acre family farm), Neeses, South Carolina (1977–present)

Oak Ridge National Laboratory

Research Associate, Oak Ridge Tennessee (1974–1977)

Conducted assessments of radiological impacts around nuclear facilities, performed studies to evaluate environmental impact of advanced fast reactor fuels, and developed and improved models to evaluate radionuclide releases to the environment.

Consultant, Allied-General Nuclear Services

Consultant, Barnwell, South Carolina (1973–1974)

Developed an in-plant health physics training program and wrote the *Safety and Environmental Control Department Policy Manual* for a nuclear fuel reprocessing plant being constructed by Allied-General Nuclear Services.

Georgia Institute of Technology

Research Assistant, Atlanta, Georgia (1973–1974)

Provided research and teaching support in the School of Nuclear Engineering.

Colorado State University

Research Assistant, Fort Collins, Colorado (1971–1972)

Developed and tested an instrument that rapidly measures working level exposure of radon daughters.

U.S. Navy, Nuclear Submarine Force (active duty)

Officer (1967–1971)

Became qualified to operate an S5W nuclear reactor and qualified in submarines. Other responsibilities included reactor control officer, electrical division officer, and operations officer.

Special Awards/Positions

Chairman, National Academy of Sciences Committee, “A Review of the Dose Reconstruction Program of the Defense Threat Reduction Agency,” 2001-2003.

Distinguished Emeritus Member, National Council on Radiation Protection and Measurements (NCRP), 2003–present.

Elected Member, International Commission on Radiological Protection (ICRP), Committee 4, 1997–2006.

Recipient of the E.O. Lawrence Award in the field of environmental science and technology. Award is presented to several outstanding scientists each year following nominations sought from over 2000 organizations, 1995.

Recipient of Elda E. Anderson Award presented annually to a member of the Health Physics Society under 40 years of age for excellence in contributions to the profession of health physics and the Society, 1983.

Member, National Council on Radiation Protection and Measurements (NCRP), 1984–2003.

Member, National Academy of Sciences “Advisory Committee to Study the Mortality of Military Personnel Present at Atmospheric Tests of Nuclear Weapons,” 1994-2000.

Chairman, Radiation Advisory Committee, Science Advisory Board, U.S. Environmental Protection Agency, member Executive Committee Science Advisory Board, U.S. Environmental Protection Agency, 1986–1987.

Chairman, South Carolina Governor's Nuclear Advisory Council, 1987–1989.

Advisor to Dean, University of Utah School of Medicine, “Assessment of Leukemia and Thyroid Disease in Relation to Fallout in Utah,” 1986–1994.

Adjunct Professor of Physics, Emory University, Atlanta, Georgia, 1985–1995.

Chairman, Technical Steering Panel, Hanford Dose Reconstruction Project, 1988–1994.

Member, National Academy of Sciences Committee to Provide Interim Oversight of the Department of Energy Nuclear Weapons Complex, 1988–1989.

Chairman, Advisory Panel, “Managing Nuclear Materials from Warheads: Weapons Dismantlement and Its Aftermath,” Office of Technology Assessment, Congress of the United States, June 1992–1993.

Advisor, Scientific Committee 6-4, “Fundamental Principles of Radiation Dose Reconstruction,” National Council on Radiation Protection and Measurements, 2006-present

Professional Activities

Special Appointments

Appointment by the Secretary of Energy to the Department of Energy Commission on Fire safety and Preparedness, November 2000–2001

Scientific Review Group, U.S. Department of Energy, Joint Coordinating Committee for Radiation Effects Research, 1995–1997.

Consultant to U.S. Nuclear Regulatory Commission, Advisory Committee on Reactor Safeguards, 1986–1990.

Illinois Department of Nuclear Safety Technical Advisory Panel on Low-Level Waste Disposal Systems, 1986–1989.

Professional Society Memberships

Health Physics Society

Society for Risk Analysis

Society of Exposure Analysis

American Nuclear Society

American Association for the Advancement of Science

Society of Sigma XI

Committee Memberships, Program Chairman, and Elected Offices

Advisor, “Principles of Dose Reconstruction,” National Council on Radiation Protection and Measurements, 2006-present.

- Chairman, Program Committee for Year 2003 Annual Meeting of the NCRP, "Radiation Protection at the Beginning of the 21st Century-A look forward," 2003.
- Chairman, National Academy of Sciences Committee to Review the Dose Reconstruction Program of the Defense Threat Reduction Agency (DTRA) 2001-2003.
- Member, Committee Four of the International Commission on Radiological Protection (ICRP) 1997-present.
- Chairman, ICRP Task Group on "Defining the Individual," 2002-present.
- Member, Program Committee for Year 2000 Annual Meeting of the NCRP, "Past and Future Bases for Setting Radiation Protection Standards," 1999-2000.
- Vice President for Environmental Issues, National Council on Radiation Protection and Measurements, 1996-2003.
- Member, International Commission on Radiological Protection Committee on Prolonged Exposures, 1997-2000.
- Member, International Commission on Radiological Protection Working Party on Controllable Doses, 1997-2000
- Chairman, International Commission on Radiological Protection Working Party on Environmental Doses, 1997-2000.
- Member, National Council on Radiation Protection and Measurements Scientific Committee 64 on Environmental Radioactivity, 1985-2002.
- Chairman, Scientific Committee 64-19 on Dose Reconstruction, National Council on Radiation Protection and Measurements, 1994-2000.
- Member, "Mortality of Military Personnel Present at Atmospheric Tests of Nuclear Weapons," National Academy of Sciences, 1993-1995.
- Program Chairman, "Environmental Dose Reconstruction and Risk Implications," National Council on Radiation Protection and Measurements Annual Meeting, April 12-13, 1995, Crystal City, Virginia.
- Chairman, Dosimetry Working Group, "Mortality of Military Personnel Present at Atmospheric Tests of Nuclear weapons," National Academy of Sciences, 1993-1995.
- Chairman, Task Group Six on Developing Screening Models for Evaluating Releases of Radionuclides to the Environment, National Council on Radiation Protection and Measurements Scientific Committee 64, 1982-1994.
- Board of Directors, National Council on Radiation Protection and Measurements, 1989-1994.
- Member, Nominating Committee, National Council on Radiation Protection and Measurements, 1988-1993.
- Publications Director, International Radiation Protection Association, 1988-1992.
- Chairman, Task Group on Disposal of Low-Level Radioactive Waste in Oceans, National Council on Radiation Protection and Measurements, 1985-1990.

Chairman, Task Group Three on the Identification and Evaluation of Models for Estimating Dose from Discharge of Radionuclides to the Atmosphere, National Council on Radiation Protection and Measurements Scientific Committee 64, 1978–1982.

Member, Task Group on Waste Water, National Council on Radiation Protection and Measurements, 1986.

Member, U.S. Department of Energy Committee on Research on the Validation of Predictive Models Resulting from the Chernobyl Nuclear Accident, 1986–1988.

Chairman, Education and Training Committee, Health Physics Society, 1975–1979.

Councilman, East Tennessee Chapter, Health Physics Society, 1975–1977.

Member, Committee on Scientific and Public Issues, Health Physics Society, 1979–1981.

Member, Health Effects and Defense Waste Working Group, Office of Technology Assessment, U.S. Congress, 1990.

Member, Department of Energy “Joint Coordinating Committee on Radiation Effects Research,” 1995–1997.

Program Chairman, “Pathway Analysis and Risk Assessment,” 1989 Health Physics Society Summer School, St. John's College, Santa Fe, New Mexico, June 18–23, 1989.

Program Chairman, “Assessment of Releases of Radioactivity to the Environment,” 1980 Health Physics Society Summer School, University of Washington, Seattle, Washington, July 14–18, 1980.

Program Chairman, “A Seminar on Solid Radioactive Waste Storage in the United States,” sponsored by the East Tennessee and Bluegrass Chapters of the Health Physics Society at Mammoth Cave, Kentucky, September 18, 1976.

Journal Editorship

Editor, *International Radiation Protection Association BULLETIN*, 1988–1992.

Editor for Environmental Consequences Section of *Nuclear Safety*, 1975–1977.

Health Physics Advisory Board, 1988–1992.

Editor, “Radiation Protection at the Beginning of the 21st Century-A Look Forward,” *Health Physics* (in press).

Military

Rear Admiral, U.S. Naval Reserve, 1991–1999, retired

Mobilization Assistant to U.S. Strategic Command, 1998-1999

Deputy Commander, Submarine Operations, N87R, Washington, D.C., 1994–1997.

Deputy Commander, Submarine Force U.S. Atlantic Fleet, Norfolk, Virginia, 1991–1994

Commander Naval Reserve Readiness Command, Region Ten, New Orleans, Louisiana, 1992–1994.

Commanding Officer, Naval Weapons Station, HQ107, Charleston, South Carolina, 1988–1990.

Member, National Naval Reserve Policy Board, 1989–1992.

Commanding Officer, Naval Electronic Systems Engineering Command DET 407, 1985–1987.

Management Information Officer, Naval Reserve Readiness Command Region Seven, Charleston, South Carolina, 1983–1985.

Commanding Officer, AS-40 FRANK CABLE, DET 107, Charleston, South Carolina, 1981–1983.

Commanding Officer, Nuclear Weapon Training Group, DET 107, Charleston, South Carolina, 1979–1981.

Qualified in submarines.

Military Awards

National Defense Medal, 1999; Legion of Merit, 1994; Meritorious Service Medal, second award 1994; Meritorious Service Medal, 1990; Navy Commendation Medal, second award 1987; Navy Commendation Medal, 1984; Naval Reserve Service Medal, 1979; Navy Achievement Medal, 1971; National Defense Service Medal, 1964

Special Training and Certifications

Naval Nuclear Submarine Program including the following:

Six months (625 classroom hours) of instruction in the principles of science and engineering fundamental to design, construct, and operate a nuclear propulsion plant, July 1967–January 1968.

Six-month prototype training designed to provide on-the-job experience at starting up, operating, shutting down, and handling emergencies associated with nuclear propulsion plants, January 1968–August 1968.

Six months submarine school consisting of 675 hours of intensified instruction and 10 days of underway training aboard an operating submarine, August 1968–February 1969.

Certification to supervise the operation of a Naval Nuclear Reactor.

Training and certification to conduct experiments with highly toxic radioactive materials in a glove box, Oak Ridge National Laboratory, January 1968–April 1975.

Courses Taught and Offered

“Three Short Courses for Regulators and Radiation Health Specialists: Emerging Topics in Radiation Protection and Risk Assessment,” March 16 – 18, 2004, Kiawah Island, South Carolina, 25 attendees.

“Calculating and Understanding Risk from Radionuclides Released to the Environment,” November 15-19, 1999, Seattle, Washington, 40 attendees.

“Calculating and Understanding Risk from Chemicals Released to the Environment,” April 12-15, 1999, San Antonio, Texas, 30 attendees.

"Chemical Risk Assessment—A Practical Approach for Making Risk-Based Decisions," April 27

– May 1, 1998, Santa Fe, New Mexico, 75 attendees.

“Pathway Analysis and Risk Assessment for Environmental Compliance and Dose Reconstruction,” November 6–10, 1995, Kiawah Island, South Carolina, 75 attendees.

“Chemical Risk Assessment for Environmental Compliance and Dose Reconstruction,” February 27–March 3, 1995, Kiawah Island, South Carolina, 85 attendees.

“Pathway Analysis and Risk Assessment for Environmental Compliance and Dose Reconstruction,” February 28–March 4, 1994, Kiawah Island, South Carolina, 150 attendees.

“Risk Assessment and Public Communication,” March 1–5, 1993, Kiawah Island, South Carolina, 85 attendees.

“Pathway Analysis and Risk Assessment for Environmental Compliance and Dose Reconstruction,” March 2–6, 1992, Kiawah Island, South Carolina, 150 attendees.

“Pathway Analysis and Risk Assessment for Environmental Compliance and Dose Reconstruction,” February 25–March 1, 1991, Kiawah Island, South Carolina, 90 attendees.

“Calculating and Understanding Risk from Radionuclides Released to the Environment,” April 28–May 2, 1997, Santa Fe, New Mexico, 150 attendees.

“Chemical Risk Management—A Practical Approach for Implementing Risk-Based Corrective Action,” April 27–May 1, 1998, Santa Fe, New Mexico, 75 attendees.

“Calculating and Understanding Risk from Chemicals released to the Environment,” April 12–15, 1999, San Antonio, TX, 40 attendees.

Expert Testimony

“Reconstruction of Historical Doses from Radionuclides Released to the Environment by the Uranium Mining and Milling Site.” In re: June et al. v. Union Carbide Corporation et al., No.1: 04-CV-00123-MSK-MJW, January 15, 2007

“Assessment of Thyroid Doses Received by Specified Individuals from Releases of Iodine-131 from Hanford.” In re: Hanford Nuclear Reservation Litigation Master File No. CY-91-3015-WFN, August 13, 2004.

“Historical Public Exposures Studies on Rocky Flats.” August 6, 2004, In re: Cook et al. v. Rockwell et al., U.S. District Court for the District of Colorado, No. 90-K-181, August 6, 2004.

“Review of the Proposed On-Site Disposal of Demineralizer Resins at Davis Besse Nuclear Generating Station,” testimony presented at a hearing in the matter of Toledo Edison Company et al., Docket No. 346-ML, August 5, 6, 7, 1986.

“The Hanford Environmental Dose Reconstruction Project,” testimony before the Senate Committee on Governmental Affairs, August 2, 1990.

“Preliminary Radiological Assessment for the Martinsville Alternative Site,” testimony at the Commission Hearings for the Martinsville Alternative LLW Site, Martinsville, Illinois,

October 6–7, 1991.

Technical Reports and Open Literature Publications

- Till, J.E.** 1975. “A Comparison of the Potential Radiological Impact of Recycle ^{233}U Fuel and LMFBR Plutonium Fuel Released to the Environment.” ORNL/TM-4768. January.
- Parzyck, D.C., J.P. Witherspoon, and **J.E. Till.** 1976. “Validation of Environmental Transport Models in the CUEX Methodology.” Chapter in *Radioecology and Energy Resources*. Edited by C.E. Cushing, Jr. New York: Dowden, Hutchinson & Ross, Inc.
- Tennery, V.J., E.S. Bomar, W.D. Bond, S.V. Kaye, L.E. Morse, and **J.E. Till.** 1976. “Potential Generation and Radiological Impacts of Gaseous ^{14}C Released During Reprocessing of Advanced LMFBR Fuels.” ORNL/TM-5538. June.
- Tennery, V.J., E.S. Bomar, W.D. Bond, G.S. Hill, L.E. Morse, R.D. Seagren, L.B. Shappert, and **J.E. Till.** 1976. “Environmental Assessment of LMFBR Advanced Fuels—A Radiological Analysis of Fuel Reprocessing, Refabrication, and Transportation.” ORNL-5230. November.
- Till, J.E.** 1976. “A Comparison of Environmentally Released Recycle ^{233}U Fuel and LMFBR Plutonium Fuel.” Chapter in *Radioecology and Energy Resources*. Edited by C.E. Cushing, Jr. New York: Dowden, Hutchinson & Ross, Inc.
- Till, J.E.** 1976. “Assessment of the Radiological Impact of ^{232}U and Daughters in Recycled ^{233}U HTGR Fuel.” ORNL/TM-5409. February.
- Till, J.E.** 1976. “The Toxicity of Uranium and Plutonium to the Developing Embryos of Fish.” ORNL-5610. July.
- Till, J.E.** 1976. “Potential Radiation Doses from ^{14}C Produced in Advanced FBR Fuels.” *Transcripts American Nuclear Society*, November 14–19.
- Till, J.E.** 1976. “Education and Training Opportunities in Health Physics.” A brochure on education and training for the Health Physics Society. December.
- Till, J.E.** and Dennis C. Parzyck. 1976. “An Evaluation of Operational Exposures which could Result from Potential Environmental Releases of ^{232}U and Daughters.” *Proceedings Ninth Midyear Topical Symposium on Operational Health Physics*. Denver, Colorado, February.
- Emery, R.M., M.L. Warner, H.R. Meyer, C.A. Little, and **J.E. Till.** 1977. “Environmental Assessment Strategies in Support of the Nonproliferation Alternative Systems Assessment Program (NASAP).” PNL-2415. October.
- Tennery, V.J., E.S. Bomar, **J.E. Till,** L.E. Morse, M. Pobereskin, and W.J. Madia. 1977. “Radiological Environmental Assessment of the Recycle of LMFBR Advanced Fuels” *Proceedings Advanced LMFBR Fuels*. Tucson, Arizona, October.
- Till, J.E.** 1977. “A Laboratory Technique for Obtaining Fathead Minnow Eggs for Use in Toxicity Experiments.” *Prog. Fish. Cult.* 39: pp. 24–27. April.
- Till, J.E.** 1977. “A Uniform Approach for On-Site Training and Qualification of Health Physics Technicians.” *Health Physics* 32: pp. 423–428. May.
- Till, J.E.** and M.L. Frank. 1977. “Bioaccumulation, Distribution, and Dose of ^{241}Am , ^{244}Cm , and ^{238}Pu in Developing Fish Embryos.” *Proc. IVth International IRPA Congress*. Paris, France, April 24–30. pp. 645–648.
- Till, J.E.** and G.G. Killough. 1977. “Scenarios of ^{14}C Release from the World Nuclear Power Industry 1975–2020 and Estimated Radiological Insult to the Population.” *Airborne*

- Radioactivity*. Selected papers from 1977 ANS Winter Meeting. Edited by David Shaw. LaGrange, Illinois: American Nuclear Society Press.
- Till, J.E.**, C.J. Barton, G.W. Parker. 1977. "Nuclear Energy: A Viable Alternative." *Aviation Medical Bulletin*. February.
- Killough, G.G. and **J.E. Till**. 1978. "Scenarios of ^{14}C Release from the World Nuclear Power Industry 1975–2020 and Estimated Radiological Impact." *Nuclear Safety* 19 (5).
- Tennery, V.J., E.S. Bomar, W.D. Bond, L.E. Morse, H.R. Meyer, **J.E. Till**, and M.G. Yalcintas. 1978. "Environmental Assessment of Alternate FBR Fuels: Radiological Assessment of Airborne Releases from Thorium Mining and Milling." ORNL/TM-6474. October.
- Tennery, V.J., E.S. Boamr, W.D. Bond, H.R. Meyer, L.E. Morse, and **J.E. Till**. 1978. "Environmental Assessment of Alternate FBR Fuels: Radiological Assessment of Reprocessing and Refabrication of Thorium/Uranium Carbide Fuel." ORNL/TM-6493. August.
- Meyer, H.R., **J.E. Till** et al. 1978. "Nonproliferation Alternative Systems Assessment Program (NASAP)—Preliminary Environmental Assessment of Thorium/Uranium Fuel Cycle Systems." ORNL/TM-6069. June.
- Meyer, H.R. and **J.E. Till**. 1978. "Radiological Hazards of Denatured Fuel Isotopes," Section 3.3 in *Interim Assessment of the Denatured Uranium Fuel Cycle*. Edited by L.S. Abbott, D.E. Bartine, and T.J. Burns. ORNL-5388. December.
- Till, J.E.** 1978. "The Effect of Chronic Exposure to $^{238}\text{Pu}(\text{IV})$ Citrate on the Embryonic Development of Carp and Fathead Minnow Eggs." *Health Physics* 34 (4).
- Till, J.E.**, E.S. Bomar, L.E. Morse, and V.J. Tennery. 1978. "A Radiological Assessment of Reprocessing Advanced Liquid-Metal Fast Breeder Reactor Fuels." *Nuclear Technology* 37 (3). March.
- Till, J.E.**, F.O. Hoffman, and D.E. Dunning. 1978. "Assessment of Technetium-99 Releases to the Atmosphere—A Plea for Applied Research." ORNL/TM-6260. June.
- Etnier, E.L. and **J.E. Till**. 1979. "Significance of Incorporating Age-Dependent Data into Population Dose Estimates." *Health Physics* 37 (6).
- Kocher, D.C. and **J.E. Till**. 1979. "Iodine-129 Dose to the World Population from the Nuclear Power Industry." *Trans. Am. Nuc. Soc.*, November 12–16.
- Meyer, H.R. and **J.E. Till**. 1979. "Anticipated Radiological Impacts from the Mining and Milling of Thorium for the Nonproliferative Fuels." Invited paper, *Proceedings of the Symposium—Radioactivity and Environment*. Norderney, Federal Republic of Germany, October 2–6, 1978, IRPA.
- Meyer, H.R., **J.E. Till**, E.S. Bomar, W.D. Bond, L.E. Morse, V.J. Tennery, and M.G. Yalcintas. 1979. "Radiological Impact of Thorium Mining and Milling." *Nuclear Safety* 20 (3).
- Meyer, H.R., C.A. Little, J.P. Witherspoon, and **J.E. Till**. 1979. "A Comparison of Potential Radiological Impacts of ^{233}U and ^{239}Pu Fuel Cycles." *Trans. Am. Nuc. Soc.*, November 12–16.
- Till, J.E.** and G.G. Killough. 1979. "Scenarios for ^{14}C Release to the Atmosphere by the World Nuclear Industry and Estimated Radiological Impacts." Invited paper *Proceedings of the Symposium—Radioactivity and Environment*, Norderney, Federal Republic of Germany, October 2–6, 1978, IRPA.
- Till, J.E.**, F.O. Hoffman, and D.E. Dunning. 1979. "A New Look at ^{99}Tc Releases to the Atmosphere." *Health Physics* 36 (1).

- Tennery, V.J., E.S. Bomar, W.D. Bond, H.R. Meyer, L.E. Morse, **J.E. Till**, and M.G. Yalcintas. 1980. "Summary of Radiological Assessment of the Fuel Cycle for a Thorium/Uranium Carbide Fueled Fast Breeder Reactor." ORNL/TM-6953. May.
- Till, J.E.**, H.R. Meyer, V.J. Tennery, E.S. Bomar, M.G. Yalcintas, L.E. Morse, and W.D. Bond. 1980. "Reprocessing Nuclear Fuels of the Future: A Radiological Assessment of Advanced (Th, U)C Fuels." *Nuclear Technology* 48 (1).
- Till, J.E.**, H.R. Meyer, E.L. Etnier, E.S. Bomar, R.D. Gentry, G.G. Killough, P.S. Rohwer, V.J. Tennery, and C.C. Travis. 1980. "Tritium—An Analysis of Key Environmental and Dosimetric Questions." ORNL/TM-6990. May.
- Till, J.E.**, E.L. Etnier, and H.R. Meyer. 1980. "Updating the Tritium Quality Factor—The Argument for Conservatism." *Proc. Tritium Technology in Fission, Fusion, and Isotopic Applications*. American Nuclear Society National Topical Meeting, U.S. Department of Energy Document No. CONF-800427.
- Till, J.E.**, 1981. "Radiological Assessment for Submerged Demineralizer System for Three Mile Island." RAC Report 1/81. *Radiological Assessments Corporation*, Neeses, South Carolina.
- Till, J.E.**, E.L. Etnier, and H.R. Meyer. 1981. "A Review of Methodologies for Calculating Dose from Environmental Releases of Tritium." *Nuclear Safety* 22 (2).
- Till, J.E.** 1983. "Special Case Radionuclides." Chapter 9 in *Radiological Assessment*, U.S. Nuclear Regulatory Commission. NUREG/CR-3332.
- Till, J.E.** 1983. "Long-Lived Radionuclides," *Proc. 19th Annual Meeting of National Council on Radiation Protection and Measurements*. NCRP, Washington, D.C.
- Till, J.E.** 1983. "Tritium—An Executive Summary of Environmental and Dosimetric Properties." Report for Chem-Nuclear Corporation. RAC/R/1. *Radiological Assessments Corporation*, Neeses, South Carolina. March.
- Till, J.E.** 1983. "Long-Lived Global Cycling Radionuclides." *Proc. 1983 American Nuclear Society Annual Meeting*. Vol. 41. June.
- Till, J.E.** and H.R. Meyer, eds. 1983. *Radiological Assessment: A Textbook on Environmental Dose Analysis*. NUREG/CR-3332, ORNL-5968. U.S. Nuclear Regulatory Commission.
- Killough, G.G., **J.E. Till**, E.L. Etnier, B.D. Murphy, and R.J. Raridon. 1984. "Dose Equivalent due to Atmospheric Releases of Carbon-14." Chapter 11 in *Models and Parameters for Environmental Radiological Assessments*. Edited by C.W. Miller. DOE/TIC-11468, U.S. Department of Energy, Washington, D.C.
- Till, J.E.** and W.L. Templeton (technical editors and task group leaders). 1984. *Radiological Assessment: Predicting the Transport, Bioaccumulation, and Intake by Man of Radionuclides Released to the Environment*. NCRP Report No. 76.
- Till, J.E.** 1985. *A Critique of the Environmental Monitoring Program at the Savannah River Plant. Report on Task 1, Review of Facilities, Equipment, and Personnel*. *Radiological Assessments Corporation* Report No. 1/85. January 30.
- Till, J.E.** 1985. "Changes in Risk Resulting from Removal of Class 'C' from a Low-Level Waste Disposal Facility," Testimony submitted to House Committee on Interior and Insular Affairs, July 19.
- Till, J.E.** 1985. *A Critique of the Environmental Monitoring Program at the Savannah River Plant. Report on Task 2, Review of Sample Locations, Frequency, and Radionuclides Monitored*. *Radiological Assessments Corporation* Report No. 8/85. September 10.

- Till, J.E.** and H.R. Moore. 1985. *A Pathway Analysis Approach for Determining Acceptable Levels of Contamination from Cobalt-60 in Soil at the International Nutronics Irradiation Facility*. Radiological Assessments Corporation Report No. 7/85, August 28.
- Till, J.E.**, R.L. Toole, and G. Shinopolus. 1985. *Report on the Proposed New Facility for Conversion of UF₆ to UF₄*. Radiological Assessments Corporation Report RAC-10. January.
- Till, J.E.**, R.W. Shor, and F.O. Hoffman. 1985. "Environmental Effects of the Uranium Fuel Cycle—A Review of Data for Technetium." ORNL/TM-9150, NUREG/CR-3738. February.
- Schiager, K.J., W.J. Bair, M.W. Carter, A.P. Hull, and **J.E. Till**. 1986. "De Minimis Environmental Radiation Levels: Concepts and Consequences." *Health Physics* 50 (5).
- Till, J.E.** 1986. "Source Terms for Technetium-99 from Nuclear Fuel Cycle Facilities," in *Technetium in the Environment*. Edited by G. DeSmet and C. Myttenaere. London: Elsevier Applied Science Publishers.
- Till, J.E.** and R.E. Moore. 1986. *DECOM: A Pathway Analysis Approach for Determining Acceptable Levels of Contamination of Radionuclides in Soil*. RAC Report No. 2/86. Radiological Assessments Corporation. February 28.
- Till, J.E.** and K.R. Meyer. 1986. *A Review of the Basis of Risk Calculations for Exposure to Chemicals and Radionuclides and Recommendations Regarding the Acceptability of Combining Risk Estimates*. RAC Report No. 5/86. Radiological Assessments Corporation. July 18.
- Till, J.E.**, W.L. Templeton, D.A. Baker, B.G. Blaylock, R.B. Codell, F.O. Hoffman, Y.C. Ng, Y.O. Onishi, and C.W. Miller. 1986. "Screening Techniques for Determining Compliance with Environmental Standards." NCRP Commentary No. 3. National Council on Radiation Protection. Bethesda, Maryland.
- Till, J.E.**, M.S. Whitaker, and R.E. Moore. 1986. "A Simplified Pathway Approach for Establishing Limits for Soil Contamination," in *Health Physics Considerations in Decontamination and Decommissioning*, Proceedings of the 19th Midyear Topical Symposium of the Health Physics Society. CONF-860203.
- Zeigler, C.C., I.B. Lawrimore, E.M. Heath, and **J.E. Till**. 1986. "Savannah River Plant Environmental Report—Annual Report for 1985." DPSPU-86-30-1.
- King, C.M., W.L. Marter, B.B. Looney, J.B. Picket, **J.E. Till**, K.R. Meyer, G.C. Merrel, V.C. Rogers, G.A. Holton, and D.F. Montague. 1987. "Performance Assessment Methods for Mixed Waste Sites at the Savannah River Plant." in *Proceedings Ninth Annual DOE Low-Level Radioactive Waste Management Conference*. Denver, Colorado, August 25–27.
- Meinhold, C.B., L. Emma, D.G. Jacobs, W.L. Templeton, and **J.E. Till**. 1987. "Guidelines for the Release of Waste Water from Nuclear Facilities with Special Reference to the Public Health Significance of the Proposed Release of Treated Waste Waters at Three Mile Island." NCRP Commentary No. 4. National Council on Radiation Protection, Bethesda, Maryland.
- Till, J.E.** 1987. *Application for a Radioactive Materials License State of South Carolina*. Report prepared for NuPac Services, Inc. RAC Report No. 1/87. Radiological Assessments Corporation.
- Till, J.E.** 1987. "Mathematical Models as the Basis for Monitoring Program Design." Appendix C in *Light Water Reactors Monitoring and Management In-Plant and Environmental for Three Mile Island*. Philadelphia: Pennsylvania: Academy of Natural Sciences.
- Till, J.E.** 1987. "Environmental Monitoring Programs for Nuclear Facilities: U.S. and International Regulations." Appendix D in *Light Water Reactors Monitoring and*

- Management In-Plant and Environmental for Three Mile Island*. Philadelphia, Pennsylvania: Academy of Natural Sciences.
- Till, J.E.** and K.R. Meyer. 1987. "A Comparison Between the Soviet Source Term and Predicted Values for the Chernobyl Nuclear Accident." *Trans. Am. Nuc. Soc.*, Volume 55, TTANSAO55 1-760, Los Angeles, California, November.
- Till, J.E.**, W.R. Schell, and D.J. Strom. 1987. "Assessing Risk from Long-Lived Radionuclides: The Need for New Perspective." Invited paper in Proc. Symposium on *Cycling of Long-Lived Radionuclides in the Biosphere: Observations and Models*. Madrid, Spain, September 15–19, 1986. Brussels, Belgium: Commission of the European Communities.
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