

Bruce Hilton, PhD

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Dr. Bruce Hilton is the Technical Lead of the Natrium™ Postirradiation Examinations of Legacy Fuel for TerraPower, LLC. Dr. Hilton has over 33 years of experience in nuclear fuels and materials performance and development, irradiation testing, and postirradiation examination. During his 14 years at TerraPower, he managed the Advanced Fuel Qualification Methodology GAIN regulatory assistance grant project, led the TerraPower Neutron Irradiation Testing of Materials in BOR-60 and directed INL CRADA on PIE of Legacy Fuels. Before TerraPower Dr. Hilton was at the Idaho National Laboratory for 14 years, where, as a senior technical manager, he directed postirradiation examinations of advanced nuclear fuel for fast reactors and LWR commercial fuel. He also was the lead for irradiation testing of the high burnup actinide-bearing transmutation metallic alloy fuels that reached 30-40 at.% burnup. At the INL, Dr. Hilton provided key technical leadership in developing and establishing new capabilities and programmatic initiatives such as M5™ Fuel Rod and Guide Tube Hot Cell Examination, GNEP PIE Equipment, and LDRD for development of advanced burnup methodologies. His education includes a PhD in Nuclear Materials Engineering from the Massachusetts Institute of Technology and BS in Physics from Brigham Young University.