



# U.S. NUCLEAR WASTE TECHNICAL REVIEW BOARD

## THE BOARD'S MISSION

The U.S. Nuclear Waste Technical Review Board was established as an independent federal agency in the 1987 amendments to the Nuclear Waste Policy Act (NWPA) to "...evaluate the technical and scientific validity of activities [related to managing and disposing of spent nuclear fuel and high-level radioactive waste] undertaken by the Secretary [of Energy], including

- (1) site characterization activities; and
- (2) activities relating to the packaging or transportation of high-level radioactive waste or spent nuclear fuel."

As recorded in the *Legislative History of the Nuclear Waste Policy Amendments Act*, the purpose of the Board is to review the technical and scientific validity of activities undertaken by the U.S. Department of Energy (DOE) to implement the NWPA and to provide independent expert advice to the DOE and the Congress on technical issues. In accordance with this mandate, the Board conducts objective, ongoing, and integrated technical and scientific peer review of DOE activities related to the disposition of commercial and DOE-managed spent nuclear fuel (SNF) and high-level radioactive waste (HLW). According to the Legislative History, the Board is expected to "review the activities [of the Secretary] as they are occurring, not after the fact." The Board reports its findings and recommendations to Congress and the Secretary of Energy.

## THE BOARD'S CONTINUING ROLE

For more than 20 years, DOE focused on developing a permanent geologic repository for disposal of SNF and HLW at Yucca Mountain in Nevada. During that time, the Board performed continuous peer review of DOE's activities and conveyed its findings and recommendations to Congress and the Secretary of Energy in reports, testimony, and correspondence. As the Administration and Congress decide on a path forward for the disposition of nuclear waste, DOE continues to have responsibility under the NWPA for managing and disposing of SNF and HLW, and the Board's statutory responsibility for evaluating DOE's implementation of those activities remains unchanged.

By performing unbiased and ongoing technical and scientific peer review of DOE's nuclear waste management activities, the Board makes an essential contribution to increasing confidence in the scientific process and to informing, from a technical and scientific perspective, decisions on nuclear waste management. The Board provides objective information to Congress, the Administration, DOE, government and non-government organizations, and the public on a wide range of issues related to SNF and HLW disposition.

All Board reports, factsheets, correspondence, testimony, and meeting materials are available on the Board's website at [www.nwtrb.gov](http://www.nwtrb.gov).

To be added to the Board's mailing list, please forward your contact information via the Board's website or by mail to U.S. NWTRB, 2300 Clarendon Blvd, Ste. 1300, Arlington, VA 22201.

### Reports and Factsheets

The Board issues reports and factsheets intended to communicate the results of the Board's evaluation of DOE activities and provide useful technical information to the public and decision-makers in Congress and the Administration.

### Recent Publication

*Board Activities for the Period  
January 1, 2019 –  
December 31, 2021*  
November 2022

## MEMBERS OF THE BOARD

The Board is composed of 11 members who serve on a part-time basis. Board members are appointed by the President from a list of candidates submitted by the National Academy of Sciences. By law, nominees to the Board are selected solely on the bases of distinguished professional service and eminence in a field of science or engineering. The names and affiliations of the current Board members are listed below.



**NATHAN SIU, PH.D., CHAIR**, is an independent nuclear risk assessment consultant.



**RONALD G. BALLINGER, SC.D.**, is Professor Emeritus of Nuclear Science and Engineering at Massachusetts Institute of Technology in Cambridge, Massachusetts.



**KENNETH LEE PEDDICORD, PH.D., P.E.**, is Professor Emeritus of Nuclear Engineering at Texas A&M University in College Station, Texas.



**STEVEN M. BECKER, PH.D.**, is Professor of Community and Environmental Health, College of Health Sciences, at Old Dominion University in Norfolk, Virginia.



**PAUL J. TURINSKY, PH.D., DEPUTY CHAIR**, is Professor Emeritus of Nuclear Engineering at North Carolina State University in Raleigh, North Carolina.



**ALLEN G. CROFF, NUCLEAR ENGINEER, M.B.A.**, is an adjunct professor in the Department of Civil and Environmental Engineering at Vanderbilt University in Nashville, Tennessee.



**SCOTT W. TYLER, PH.D.**, is Foundation Professor in the Department of Geological Sciences and Engineering at University of Nevada, Reno in Reno, Nevada.



**TERESA FRYBERGER, PH.D.**, is an independent chemical and environmental consultant in Arlington, Virginia.



**BRIAN WOODS, PH.D.**, is Professor of Nuclear Engineering at Oregon State University in Corvallis, Oregon.



**TISSA H. ILLANGASEKARE, PH.D., P.E.**, is AMAX Endowed Distinguished Chair of Civil and Environmental Engineering at the Colorado School of Mines in Golden, Colorado.