

Exploring geologic disposal options for nuclear waste in Israel

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Summary: The objective of NNSA/IAEC collaboration is to evaluate the feasibility and safety of an intermediate-depth borehole for disposal of IAEC nuclear waste. The IAEC nuclear waste is currently stored in above ground and/or in near-surface facilities that provide short-term radiological worker safety but do not provide long-term, full security and safeguards protection for the nuclear material. Disposal of the IAEC nuclear waste several hundred meters below the surface in a sealed borehole would provide long-term security and safeguards due to its depth underground, as well as long-term radiological safety, due to its isolation in a stable geological formation.



For the past 33 years, Dr. Dixon performed research and has been a technical program manager in a variety of energy, non-proliferation and environmental programs at Los Alamos National Laboratory. Dr. Dixon is currently a senior advisor to the US Department of Energy's Network of National Laboratories for Environmental Management and Stewardship (NNLEMS), the science lead for the NNSA/IAEC Subsurface Science and Waste Management focus area and he is

the Deputy Director of the Civilian Nuclear Program Office at Los Alamos National Laboratory. Dr. Dixon serves on the FIRST Nevada Board for STEM and robotics programs in Nevada, and he is the Judge Advisor for the FIRST FRC Regional event in Las Vegas. Dr. Dixon has served for the past 13 years as the Chair of the Clark County Advisory Board to Manage Wildlife for the Nevada Wildlife Commission. Dr. Dixon holds a Bachelors of Arts degrees in geology and chemistry from Albion College, and both a masters and doctorate degree in geochemistry from Yale.