

OHIO HOUSE OF REPRESENTATIVES

HOUSE BILL 104

Advanced Nuclear Technology Helping Energize Mankind (ANTHEM)

TESTIMONY TYPE: Proponent

TESTIMONY DATE: October 16th, 2019

ADVOCATE NAME: Charles K. Alexander, PhD, HDr.Eng., LFIEEE

TESTIMONY:

Dear Chairman Vitale, Vice Chair Kick, ranking member Denson, and the rest of the committee:

I am delighted to have the opportunity to provide testimony in support of HB 104!

First, let me state that I am Professor Emeritus of Electrical Engineering and Computer Science in the Washkewicz College of Engineering at Cleveland State University, Cleveland, Ohio. I am also an unpaid advisor to the eGeneration Foundation. I believe in and fully support the objectives of the eGeneration Foundation. As an engineer working in the power and energy field for most of my career, I understand the need to pass bills such as this. I have spent 45 years working in the power and energy field. I am an internationally recognized expert in this area as well as others. The very first research center I created is in the area of power and energy at Tennessee Technological University. Since then I have created and run a variety of research centers most of which deal with areas related to power and energy. I have achieved recognition as an author of 30 books and more than 500 paper, professional, and technical presentation. I have also served as the International President and CEO of the IEEE, the world's largest technical and professional organization.

We, the US, currently have total energy independence for the first time in a long time. This means we now have the energy needed to fully develop the nuclear industry for the future. And, energy is the key for everything we want! Having the best possible healthy living environment, working conditions, and quality of life among other things, can only happen if we have virtually unlimited clean energy offered by modern nuclear energy!

This bill details the many applications that need to be developed to fully make use of all the positive applications of the new nuclear industry. The molten salt reactor technology addresses many of the short comings of current nuclear technology. It represents the ability to burn up nuclear wastes that currently need to be stored. It represents the ability to scale reactor technology to expand significantly more uses than the current technology. It will provide the ability to generate the medical isotopes so desperately needed as older technology is taken offline. It also will generate the isotopes to allow NASA to establish a lunar mission, a Mars mission, and many more space applications.

To succeed in all of this, we need bills like HB 104 to create a positive environment in the State of Ohio. Currently what exists, for the most part, discourages the development of a nuclear industry, we must change this so that industry is freed to move us into the future.