

# AVANTech/DTS Solving Problems Worldwide

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AVANTech Inc./DTS is recognized worldwide for its water processing and radioactive waste management expertise. We have provided more than 150 systems and in over 14 countries other than the US as shown below. In the last six months we have received new awards outside the U.S. at nuclear power plants (NPPs) in China, Japan, Mexico and Slovakia.

Most recently, AVANTech/DTS was awarded contracts for work totaling more than \$14M at two Slovakian VVER\* NPPs. These projects will entail cleaning up stored evaporator concentrate waste for release to the environment, in accordance with the standards of the International Atomic Energy Agency (IAEA). The final dried product can be recycled for beneficial reuse in non-nuclear applications.

Our installations will be completed in Slovakia's Mochovce NPP in 2016, and Bohunice NPP in 2018.

Dennis Brunzell, ChemE, the primary AVANTech/DTS Vice President responsible for this project explained, "This process can be used at PWR and BWR type plants around the world. Because it can reduce the volume of the solid product by 20-100 times, it's especially valuable where burial/storage space is limited and the cost of burial/storage is very high. Other applications may include the discharge of very low activity (tritium only) liquid waste for sea based plants."



The modified Concentrate Drying System (CTS™) has been developed and tested extensively by AVANTech/DTS over the past six years. It has been proven in pilot testing to reduce the quantity of actual radioactive waste by 97%, thus greatly reducing storage and disposal costs. One cubic meter (1 m<sup>3</sup>) per day of raw waste can be treated, yielding an end product of dry granular or solid glass-like material. Liquids from the process are purified for release.

Jim Braun, President of AVANTech stated, "AVANTech/DTS is a world provider of comprehensive radioactive and industrial water treatment solutions. Our awards from international clients highlight our extensive experience in engineering process systems, and our proven ability to create integrated solutions that dramatically improve operations in industrial, government, commercial and nuclear power applications. I am proud of our team, the technology they developed, and their worldwide accomplishments."

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\* Water-Water Energetic Reactor (VVER) or WWER (from Russian) is a series of pressurized water reactor designs originally developed in the Soviet Union. Power output ranges from 300 MWe to 1700 MWe, with the latest Russian development of the design. VVER power stations are used by Armenia, Bulgaria, China, Czech Republic, Finland, Hungary, India, Iran, Slovakia, Ukraine and Russia. (*Info excerpted from Wikipedia*)

Visit us at Booth 517 at the March WM2015 conference in Phoenix to discuss how we can solve your water and waste problems!