

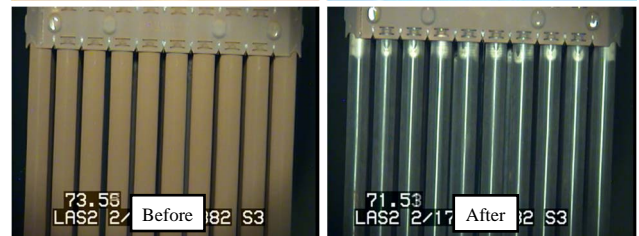
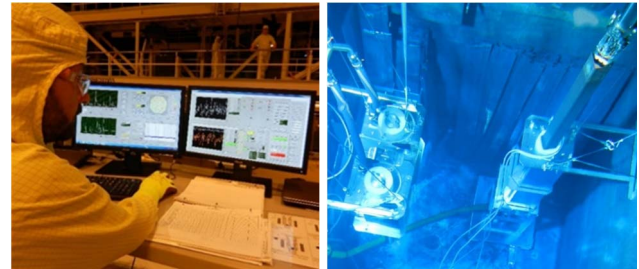
## Ultrasonic Cleaning and Decontamination

### Background

- Ultrasonic cleaning is an effective technique when there is limited access to the surface to be cleaned and minimization of secondary waste streams is desirable.
- DEI is the industry leader in ultrasonic cleaning and decontamination of nuclear systems.

### Technology and Services Overview

- We offer specialized equipment and technology for ultrasonic cleaning and decontamination of nuclear fuel, heat exchangers, pumps, piping, tanks and vessels.
- DEI also routinely delivers engineered systems for client-specific cleaning applications.
- DEI provides turn-key support for all phases of work, including: equipment design/build, qualification and field service.



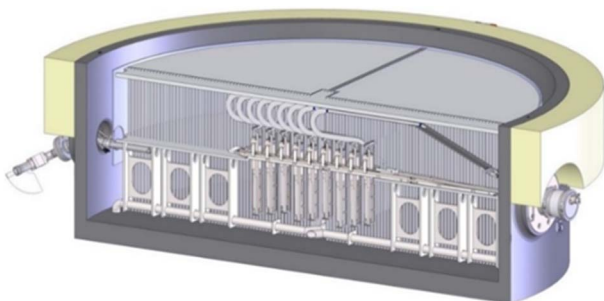
Ultrasonic fuel cleaning



Radwaste encapsulation system cleaning



BWR jet pump cleaning



Commercial steam generator cleaning

### Example Experience and Applications

- Removal of activated corrosion products from nuclear fuel (>4,000,000 fuel rods cleaned)
- Cleaning of cement solidification system used for encapsulation of radwaste
- Fluidization to assist in waste retrieval and tank decontamination
- Externally-mounted systems for cleaning piping and vessels without interior access
- Regeneration and cleaning of filters, resin vessels and other waste purification equipment
- Reactor vessel and cavity decontamination