



## NEWS RELEASE

### ARC SAW TECHNOLOGIES, LLC

Arc Saw Technologies, LLC (AST) is pleased to announce a contract from Fluor Idaho LLC to design, fabricate and demonstrate a 38-inch diameter Arc Saw system using two blades cutting simultaneously. The demonstration will be performed at our shop in Connecticut where the saw system and segmentation tank will be fabricated. Upon successful demonstration, the system and segmentation tank will be shipped to the Idaho Nuclear Technology and Engineering Center (INTEC) where it will be deployed to cut zircaloy material underwater. The two saw blades will simultaneously cut ends off fuel assemblies in multiple passes, using a 10,000 amp 40 VDC power supply split into two 5,000 amp leads for each saw. A 500kW diesel-generator will provide the power supply for the Arc Saws. Cutting will be performed in a segmentation tank immersed in the fuel pool to minimize the spread of contamination. A filtration system will be used to keep maintain water clarity in the segmentation tank. The system can also be used to vacuum the tank bottom when the cutting is complete. The segmented fuel assemblies will be placed in wet storage and subsequently in dry casks by INTEC.

AST received a U.S. patent two-and-a-half years ago (Patent No. 10014084, July 2018), and re-filed in the U.S. for additional claims (patent pending). Last year, AST received a patent from Japan (JP 6662635, February 2020), and as well as a patent pending in Canada.

Arc Saw Technologies, LLC consists of two other LLC companies LaGuardia & Associates, LLC and RS Engineered Products, LLC. LaGuardia & Associates is managed by Thomas S. LaGuardia, PE, CCP who has over 52 years of decommissioning experience in commercial reactors, research reactors, former weapons facilities and waste management. He has both engineering and hands-on experience in planning, managing and implementing decommissioning projects. RS Engineered Products is managed by Richard F. Simoneau who has over 52 years of detailed engineering, design, fabrication and field installation of equipment for chemical, industrial and nuclear applications. Using their combined experience they engineered, designed, fabricated and tested two demonstration Arc Saws to demonstrate the viability of the design and concept. The first demonstration was using a 10-inch diameter circular Arc Saw which cut through carbon steel bars and tubes significantly faster than any other technology currently available. The second demonstration used a 24-inch diameter circular Arc Saw which cut through both stainless steel and high-strength armor plate steel without difficulty.

Fluor Idaho manages the Idaho Cleanup Project Core contract at the Department of Energy's Idaho National Laboratory Site located 45 miles west of Idaho Falls. The wholly owned subsidiary of Fluor Corporation is responsible for safely remediating the site including dispositioning transuranic waste, managing spent nuclear fuel, and treating high-level radioactive waste. Fluor Idaho selected Arc Saw Technologies for the unique challenges of this segmentation project.

Additional information can be obtained by contacting Arc Saw Technologies at:

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