NEWS BRIEF

AMS Selected to the AFCP and Game Changers Innovation Challenge to Treat NOx

SUNNYVALE, CA. - 27 May 2021

Aqua Metrology Systems, Ltd. (AMS) has been selected to the Advanced Fuel Cycle Programme (AFCP) and Game Changers cross-sector solutions challenge for the treatment of nitrogen oxides (NOx) from nuclear fuel recycling off-gases to minimize the environmental impact of recycling operations.

AFCP is led in partnership with the U.K. Department for Business, Energy, and Industrial Strategy (BEIS) and National Nuclear Laboratory (NNL) who are collaborating with leading industrial, academic and research institutions to investigate the role of advanced nuclear fuels and fuel cycles for a Net Zero greenhouse gas emission future.

Earlier this year, AFCP and Game Changers, a program that finds solutions for complex nuclear challenges, launched a call for applications to develop NOx abatement technologies and provide advanced nuclear fuel recycling options.

After receiving a range of submissions, AFCP announced that it is now moving forward with five concepts powered by the Game Changers network. AMS is one of the five applicants that have been awarded funding to complete the feasibility studies based on its unique SafeGuard™ H2O fully automated, on-demand, in-situ generator of stannous and tin dioxide. These are powerful reagents with a wide range of applications and proven success treating waterborne contaminants — chromium, copper, lead, hydrogen sulfide, manganese, iron in drinking water applications; mercury, selenium, etc. in wastewater; and corrosion inhibition in cooling and heating systems and lead piping. The technology can also be applied for the treatment of airborne contaminants such as sulfur dioxide, hydrogen sulfide and NOx remediation.

"We are extremely grateful to have been given this opportunity to address one of the fuel cycle challenges based on our innovations in the use of tin dioxide for treating air and waterborne contaminants that compromise human health and the environment," said Rick Bacon, CEO of AMS. "It is particularly exciting that this program will have spin-off benefits for the global nuclear industry and many other industries also challenged by handling cleanly NOx emissions."

According to AFCP, feasibility studies are expected to be completed in July 2021. Outputs will include detailed plans for proof-of-concept projects which will build on the feasibility study results.

"We look forward to demonstrating the power of tin to secure a clean energy future for all," Bacon said.

About AMS

Aqua Metrology Systems (AMS) believes real-time water quality analysis and remediation are essential to environmental protection. AMS is a leader in the control of water treatment systems across municipal and industrial sectors in which disinfection byproducts (i.e., THMs) and trace metals are contaminants of concern. AMS' online analytical instrumentation provides the high-frequency, predictive, accurate and reliable water quality data that are essential to ensuring treatment systems operate efficiently while meeting regulatory and performance standards. AMS is the pioneer of the intelligent water treatment system with its SafeGuard™ H2O, an innovative solution for remediating waterborne and airborne contaminants and resource recovery.

Aqua Metrology Systems
1225 E. Arques Avenue
Sunnyvale, CA 94085
United States

www.aquametrologysystems.com

CONTACT
Rick Bacon
+1 617 543 6522
rbacon@aquametrologysystems.com