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Mainstream Engineering to Develop the Next-generation Underwater Life-support System (Rebreather).

ROCKLEDGE, FL — November 22nd, 2022 — Mainstream has been awarded a contract from the Naval Air Warfare Center for Next-generation Underwater Life-support System (Rebreather). Open circuit self-contained underwater breathing apparatus (SCUBA) wastes much of the usable oxygen (O₂) in divers' bottled gas and produces bubbles that limit its use in covert operations. The closed-circuit underwater breathing apparatus (CCR) extends dive times and supports covert operations by eliminating telltale bubbles. However, carbon dioxide (CO₂) scrubbers contribute much to the overall size and weight of rebreather rigs. Rebreather fatalities may result when divers exceed capacities of either scrubbers or oxygen bottles. Mainstream has demonstrated a new technology to improve rebreather safety and mission endurance.

About Mainstream Engineering Corporation

www.mainstream-engr.com

Mainstream Engineering Corporation is a 36-year-old Brevard County, Florida manufacturer with a history of leading-edge research and development that has resulted in advanced cost-competitive products, which are made in the USA. Founded in 1986, Mainstream's mission is to transition advanced R&D into high-quality, environmentally-safe, green, commercial products using lean manufacturing techniques. Areas of research include thermal control, energy conversion, power electronics, biomass conversion, chemical technology and materials science.

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