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Mission Accomplished
For more than half a century, Cobham has been a leader in precision instruments, components and systems for military, medical and commercial use all around the world. That leadership will only grow stronger through Cobham’s highly developed and superior technology that is advancing every day.

It is clear that Cobham will remain a worldwide leader in their commitment to advanced technology and their commitment to their customers, providing value-added benefits on the cutting edge of technology. A history of results and a continually growing reputation for quality and excellence.

Customers around the world put their trust in Cobham
As the decades have passed, Cobham Life Support (Cobham) has developed an attention for detail and prides itself on its rich history and reputation for excellence. They have provided technology, solutions and results, and have defined the future. Even now, Cobham is again breaking the mold.

Cobham Life Support, located in Davenport, IA, is a world leader in the application of air separation technology for aviation applications: the design and manufacture of miniature single cycle cryogenic coolers, and the design and manufacture of military underwater rebreathers. Founded as Bendix Aviation in 1951, the company was held by Litton Industries and later by Northrop Grumman Corporation. Cobham plc purchased the company in 2003 as Carleton Life Support Systems Inc. Cobham Life Support is now part of the Cobham Mission Systems Division.

The Davenport facility is 240,000 square feet and sits on 8.6 acres. The company employs more than 420 employees with 45% of the work force represented by the International Association of Machinists.

Since its inception, Cobham Life Support has continually challenged its employees by encouraging forward thinking and maintaining its leadership role in advanced technology for military and commercial products. Today, that persistence and innovation has transformed Cobham into a world-class operation that is on the forefront of superior new technology and continued market leadership.

**Aviation Oxygen**

Cobham's aviation oxygen product line utilizes Cobham's cutting edge air separation technology for aircraft applications. This technology has allowed Cobham to become the world's leading manufacturer for On Board Oxygen Generating (OBOGS). This system plays a crucial role in simplifying logistics while saving end customers millions of dollars annually.

OBOGS eliminates the need for liquid oxygen (LOX) or gaseous oxygen (GOX) by using the readily available bleed air from the aircraft's engine. The bleed air is separated through Cobham's molecular sieve technology to concentrate an unlimited supply of breathing oxygen. The oxygen is then monitored for purity and regulated before it is delivered to the crew. This system reduces the dependency for heavy, bulky GOX bottles that add more stress and weight to the aircraft; as well as eliminates the risks associated with the handling and use of LOX. Most importantly, the OBOGS operational costs are significantly lower than outdated LOX systems, which result in customers saving millions of dollars in operation and maintenance expenditures.

**Aircraft Survivability**

On Board Inert Gas Generating Systems (OBOGS) use either molecular sieve technology (similar to OBOGS) or hollow fiber membrane (HFM) technology to generate a continuous flow of nitrogen enriched air, which is then released into the fuel tank, displacing the explosive air/fuel mixture inside the tank. This eliminates the opportunity for an explosion resulting from engine ground fire, static discharge or other ignition sources. Cobham offers the benefits of both nitrogen-generating technologies to tailor an optimal system solution to the customer's requirements/application. OBOGS increases aircraft survivability and the protection of the crew and passengers by eliminating the threat of fuel tank explosions when the aircraft is most vulnerable.

**Cryocooling Systems**

Cobham is uniquely positioned to offer multiple technologies to produce oxygen for medical use by the military. A product line built on molecular sieve technology offers proven technology that delivers medical grade oxygen (USP 93%). Cobham’s ground based point of use gas generating systems continuously monitor key system performance characteristics to assure full and safe operational capability.

Products utilizing molecular sieve technology include the Deployable Oxygen Generating System – Medium (DOGS-M), Mobile O2, Patient Ventilating Oxygen Concentrating System (PVOCS) and Aero-Medical Oxygen Generation System (AMOGS).

DOGS-M, delivering 120 liters per minute of oxygen, is a new standard in point-of-use oxygen generation and cylinder recharging capability; rugged, highly reliable, portable, and safe.

Completing field hospital point-of-use gas generation is the airborne Aero Medical Oxygen Generation System (AMOGS), which is installed on the air ambulance Medical Evacuation HH-60 helicopter. This system allows combat medics to eliminate dangerous and hard to support oxygen bottles in the battlefield or medical evacuation site.

**Medical Oxygen**

As a result of decades of experience as manufacturers of precision instruments and gas handling devices, Cobham has quickly emerged as a leader in the development and manufacture of minute cryogenic coolers and controllers for infrared thermal imaging systems for tactical military products. The applications for Cobham’s cryogenic cooling systems range from ground based portable infrared night sights to advanced airborne targeting and countermeasure systems. These cryogenic cooling systems enable the technology that allow warfighters to ‘see’ and identify persons or objects in total darkness as well as through smoke, dust, fog or clouds. The cryogenic cooler cools an infrared sensor to cryogenic temperatures (approx. -195°C) providing the sensitivity to detect heat sources, and provides an identifiable image of the person or object to the warfighter. Cobham's cryogenic coolers have been designed to be exceptionally quiet, smooth running and exhibit long life.

**Military Oxygen**

Cobham's Davenport facility includes state of art technology coupled with a lean manufacturing process.