Customers around the world put their trust in Cobham

CAGE Code 99251

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F-16 OBOGS

On-Board Oxygen Generating System

The most important thing we build is trust

F-16 OBOGS

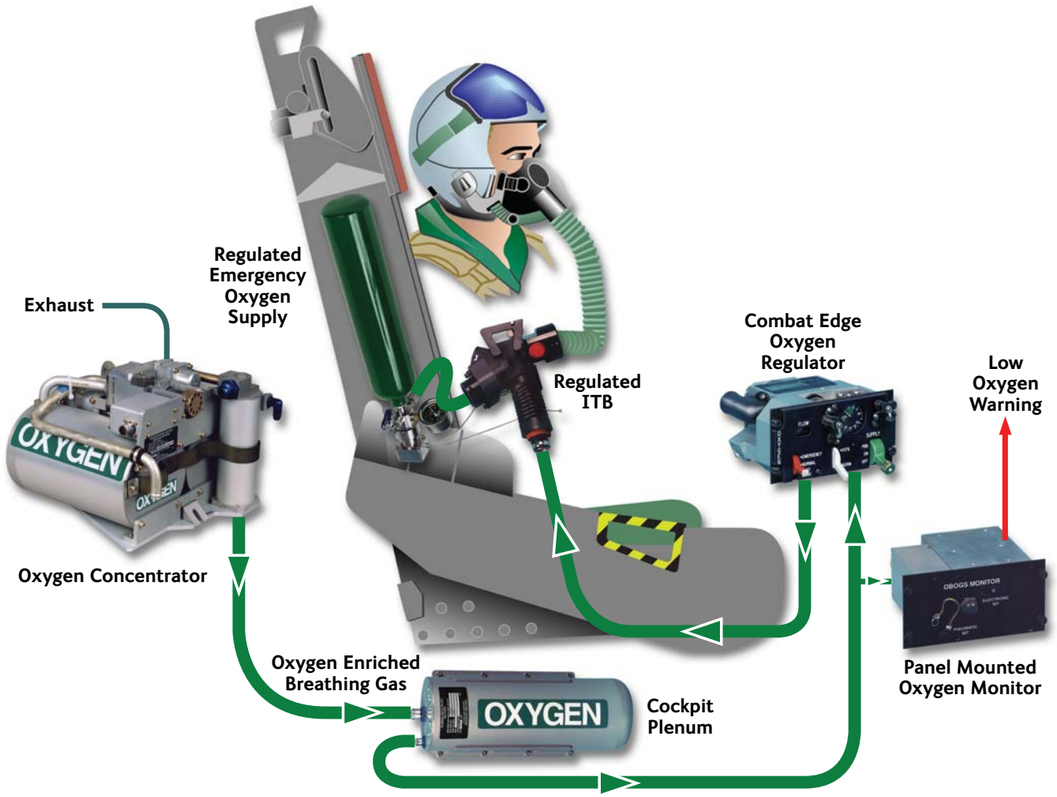
On-Board Oxygen Generating System

1 *Cobham provides On-Board Oxygen Generating Systems (OBOGS) on the Lockheed Martin F-16 Falcon aircraft*

2 *OBOGS provides continuous oxygen to the crew throughout the mission*

3 *Cobham's OBOGS system has demonstrated over 4 million flight hours*

4 *Cobham's OBOGS system reduces the dependence for heavy, bulky oxygen bottles that add more stress and weight to the aircraft*



1

Cobham has established the installation of its flight-proven On-Board Oxygen Generating System (OBOGS) on the Lockheed Martin F-16 Falcon aircraft to replace the liquid oxygen system (LOX). Minimal modification is required to retrofit the aircraft with OBOGS.

OBOGS presents considerable advantages over LOX, including:

- Significant life cycle cost advantage
- Improves safety
- Weighs less than LOX
- Reduces turn-around time
- Extends the operational theater of aircraft
- Enhances mission effectiveness
- Eliminates LOX quantity management workload in flight
- Reduces logistics infrastructure
- Eliminates the need for LOX generation, servicing and storage
- Eliminates Daily/Turn-around inspections
- Eliminates "I" level support

OBOGS eliminates the need for LOX by utilizing bleed air from the engine and separating its components through a two-bed molecular sieve pressure swing adsorption (PSA) technology. The OBOGS provides and generates a continuous supply of 93% breathing oxygen. The OBOGS interfaces with the conditioned bleed air supply and the 28 VDC electrical supply.

The product gas is then monitored for oxygen purity and regulated before it is delivered to the pilot. A solid state oxygen monitor is employed to ensure the oxygen concentration exceeds minimum physiological breathing requirements. A BIT check function can be activated electrically or mechanically.

2

This system reduces the dependence for heavy, bulky oxygen bottles that add more stress and weight to the aircraft, as well as eliminate the risks associated with the handling and use of LOX.

- Demonstrated over 4 million flight hours
- Operational availability (Ao) 0.99
- Installed in AV-8B, TAV-8B, T-45, F-14D, F/A-18, F-15E, A-10, A-4AR, AL-X, GR5, T-4, T-6A, T-50, F-5, F-2, C-130 and PC-9
- Provides safe breathing oxygen in presence of chemical agents
- Provides continuous oxygen to the crew throughout the mission
- Regulated Emergency Oxygen System provides up to 30 minutes of breathing oxygen
- Oxygen plenum provides 5-6 minutes of breathing air
- Regulated Integrated Terminal Block provides the crewmember with comfortable positive pressure demand breathing

OBOGS upgrades provide customers with an annual savings of $12,000* per aircraft.

**calculated in 1999 US dollars*