

Liquid Oxygen (Cryogenics) Storage. FAC: 4122

CATCODE: 442258

OPR: AFCEC/COS

OCR: AF/A4LE

1.1. Description. This facility provides storage of liquid oxygen tanks.

1.2. Requirements Determination. All Air Force installations with a requirement for liquid oxygen for breathing purposes for aircrews require a liquid oxygen generating/storage capability or liquid oxygen storage capacity to satisfy the requirement. (For Oxygen Generating Plant, see **CATCODE 229986**.) The decision to rely on storage capacity and commercial suppliers or organic Air Force generating capability is based on an individual base analysis to determine the most practical procedure which provides assurance of meeting the requirements.

1.3. Scope Determination. The normal source of supply for liquid oxygen for breathing purposes for Air Force bases within the United States, its territories, and possessions is by procurement from commercial sources wherever suitable sources of supply are available to meet quantitative and specification requirements. In these instances, ensure base storage capacity is sufficient to provide for 30 days peacetime requirement or 15 days alert, whichever is greater, plus WRM, plus sufficient storage to permit receipt of resupply in economical quantities from suppliers. In every instance, provide a minimum of at least two tanks in multiples of 1,500, 7,600, or 19,000 liters (400, 2,000, or 5,000 gallons) to ensure continuous operation and permit periodic purging and decontamination of the tanks. These tanks are centrally procured.

1.4. Dimensions. See **paragraph 1.3**.

1.5. Design Considerations. See AFI 23-201 for facility design requirements. Provide canopies in areas of snow and ice and, to minimize boil-off losses, in areas of extremely hot weather. The facility requires security protection. Ensure control of hazardous materials complies with local, state and federal requirements and other guidance as defined in **AFMAN 32-1084 Overview paragraph 1.3.1 and 1.8.6**.