

Storage Special Fuel. FAC: 4111

CATCODE: 411139

OPR: AFPET/PTOT

OCR: AFCEC/COS, AF/A4LE

1.1. **Description.** The storage of liquid chemicals in bulk is authorized when the action results in procurement, transportation, and handling economies, and bulk storage can be accomplished without danger or deterioration losses.

1.2. **Requirements Determination.** Under the circumstances described above, bulk chemical storage is authorized for any Air Force activity that annually consumes at least one tank truckload of any one chemical, or approximately 19,000 liters (4,000 gallons). Determine the method of commercial peacetime delivery of bulk chemicals to an installation in advance to provide adequate unloading facilities and to determine the quantity of the storage required.

1.2.1. Base peacetime bulk storage requirements on tankage necessary to maintain a 15-day stock level, based on an average 15-day consumption rate, but in no case may tankage be less than a standard 30,000 liter (8,000 gallon) tank if deliveries are made by tank truck, or less than a standard 45,000 liter (12,000 gallon) tank if deliveries are made by tank car. Since the minimum tankage requirement in practically every instance is substantially in excess of 15-day stock level, no additional tankage should be required to meet peak loads. If cleaning and maintenance of the facility is necessary, supply should be temporarily handled in drums.

1.2.2. Within tankage availability, one full railroad tank car or tank truckload may be shipped, although this may temporarily raise stocks above a 15-day level.

1.2.3. Any overseas war chemical reserves may be stored in underground tanks when this results in economies and acceptable sources of supply are thus developed.

1.3. **Scope Determination.** Tankage requirements for any activity may not exceed the sum of the peacetime requirement plus the wartime requirement. Use underground storage tanks only when required by health and safety reasons or mission requirements. Tankage requirements should be fully justified in MAJCOM budget estimates and supported by mathematical calculations showing the savings to be derived from storing chemicals in bulk.

1.4. **Dimensions.** All tank sizes are limited to standard size of 30,000 liter (8,000 gallon) and 45,000 liter (12,000 gallon) capacities.

1.5. **Design Considerations.** Ensure storage tanks for Jet Propellant Thermally Stable (JPTS) fuel are epoxy lined, and all piping and plumbing are either aluminum or stainless steel. Manual isolation valves should be either stainless steel or carbon steel type with electrolysis nickel internal coating. Coordinate any program changes to JPTS tankage with ACC/A4RM.