A319 CJ GENERAL Introduction:

The installation of 6 Additional Center Tanks (ACTs) in the aft cargo compartment increases the A319 CJ fuel capacity. The fuel capacity is approximately:

- 2277 kg (5031lb) for ACT 1, 2 or 6,

- 1749 kg (3856 lb) for ACT 3 or 4,

- 2437 kg (5373 lb) for ACT 5.

FEED CONCEPT

Fuel is automatically transferred from the ACTs to the center tank when the fuel level of the center tank decreases.

MANAGEMENT

The different functions of the system are:

- fuel level sensing,

- fuel transfer from ACTs to center tank,

- refuel/defuel control and monitoring,

- indications,

- warnings,

- test.

The Auxiliary Fuel Management Computer (AFMC) manages refuel operations of the ACTs and the Fuel Quantity Indication Computer (FQIC) manages wing and center tanks refuel operations.

INSTALLATION

If the provisions are installed, the ACTs can be installed in approximately one eight-hour shift. When loaded into the aft / FWD cargo hold through the aft / FWD cargo door, the ACT must connect to the systems that follow:

- refuel/defuel pipe,

- vent pipe,

- drain system pipes,

- air pressurization line,

- Fuel Quantity Indication (FQI) and level sensing systems,

- vent and inlet valves power supplies,

- impact/heat shield wall.