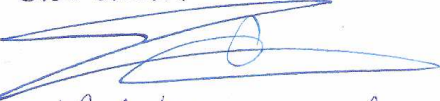


Declaration

CAC declares that it will develop a processing unit for aircrafts wastewaters (Chlorination station) after being relocated to the new site, and we guarantee that the specifications of the wastewaters drained from the unit to the airport sewage are in compliance with the standards stipulated by law No. 62 /1993, that is amended by the ministerial decree No. 44/2000.

Dr/ AH

Acknowledged by
Rear admiral/ Hassan Rashed
Chairman

Chairman CAC




Pilot/Hassan Mahmoud Rashed



The following data provided by NACO/ ECG (project designer)

**Chlorination Plant at Terminal building # 2 (TB2)
Cairo International Airport**

Background:

The existing chlorination plant is used for the aircrafts sewage treatment. The plant location is near the apron stands of (TB2) Terminal building # 2 at Cairo International Airport. This plant was put into service in 1986; comprising 3 identical pits (2 only was equipped at that time with service mechanical equipment), each of 21 m³ volume.

The plant function is to mix/inject aircraft sewage effluent with heavily chlorinated water, circulating, aerating with compressed air & macerating the mixture with mechanical shredders to decrease the total suspended solids & BOD₅ loading.

A complete renovation of the electromechanical equipment & extension for the third pit was accomplished in 2008, during the construction of TB3.

Due to the renovations & extensions proposed for terminal building 2, and as a part of the construction project program, the existing plant shall be relocated to a new building at a near location to the existing plant. This new location is studied and selected by CAC to suit the operational requirements of the airport.



Plant Capacity Evaluation:

According to the physical site investigations, the average effluent entering the plant is 750 m³/month approximately; this effluent needs an addition of clear water flow rate of about 1500 m³/month to perform the treatment process.

That is to say total volume treated per month is 2250 m³ (say 2500 m³ approx.)

Aircrafts sewage flow rate = 28 m³/day
Average treated effluent flow rate = 83.3 m³/day

The capacity of each sewage compartment/sump is 21 m³ of water/sewage mixture, which requires 30 min. to complete the treatment process.

The total volume treated per day requires: $83.3/21 \times 0.5 = 2$ hrs approximately (using only one sump).

Conclusion:

The Capacity of the existing plant (using 3 sumps) has enough capacity and adequate for the future airport capacity & extensions.

Implementation Plan:

It is intended to implement the new chlorination plant and perform the re-location of the existing system, at an early stage before the demolition of the existing plant. The airport shall always utilize the chlorination plant for the treatment of the aircraft sewage wastes.

Complete tender documents are under preparation in order to be sent for local bidding for the building construction and re-location of the existing chlorination system.

Expected dates:

Bidding: 1 January 2010
Contracting: 1 March 2010
Commissioning: 1 August 2010