

APU DEFINITIONS

Unit

Any assembly (APU, control system component, etc.) that can readily be changed on an aircraft during line maintenance operations

APU

The Auxiliary Power Unit (APU) (core power section, gearbox, and if applicable, load compressor) plus all control system components. It is the demountable APU package, less generator and aircraft hardware

Control System Component

Any component which is a constituent of fuel, oil, electrical, electronic, or pneumatic subsystem that controls or maintains APU function

Removal

Any unit removed directly from the aircraft

Failure

Inability of a unit to perform within previously specified limits

Scheduled Removal

Any removal not due to operational impact. This category includes removals for preventative maintenance, precautionary, routine inspection, time limits, access to other equipment, modification or maintenance convenience

Unscheduled Removal

Any removal due to operational impact. This category includes removals due to problems evident to the flight crew, problems evident to the maintenance crew, personnel error, or maintenance errors

Confirmed Removal

An unscheduled removal where a failure, or a combination of failures is found which substantiates the reason for removal

Unconfirmed Removal

An unscheduled removal of a unit where no failure is found which substantiates the reason for removal, even though another failure may be found

MTBR

Mean time between removals:

$$\frac{\text{Unit operating hours}}{\text{Unit removals in same period}}$$

MTBURMean time between unscheduled removals
(removed during a 12-month period):

$$\frac{\text{Unit operating hours}}{\text{Unscheduled unit removals in same period}}$$

MTBCRMean time between confirmed removals
(removed during a 12-month period):

$$\frac{\text{Unit operating hours}}{\text{Confirmed unit removals in same period}}$$

Average TSR (Time Since Removal/
Repair/last shop visit)Average of TSR (or TSN if the first removal)
for APU removed during a 12-month period

$$\frac{\text{Sum of TSR (or TSN)}}{\text{No of removals in same period}}$$

First Run Reliability (MTTCUR)Average of TSN for confirmed APU
removals during a 12-month period (first
removals only)

$$\frac{\text{Sum of TSN (first removal)}}{\text{No of confirmed removals in same period}}$$

Time on Wing

Time on Wing = TSN, for the first removal

Time on Wing = TSR, for subsequent removals

Reliability Definition for APUs

APU Removal Reasons

Shop Findings

