

A/C TIMES – AIRCRAFTS TIMES

User Guidance

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1. General Information

ID:	REG:	Date TOFF:	Flight:	From:	To:	TOFF:	LND:	TLOG:	Hours:	Cycles:	Total Hours:
203762	VQ-BBB	2020-06-03 10:00	123	DME	YKS	10:00	20:00	35432/1	10:00	1	49217.55
203766	VQ-BBB	2020-06-03 11:00	321	DME	YKS	11:00	23:30	35432/4	12:30	1	49259.25
203767	VQ-BBB	2020-06-03 12:00	123	DME	YKS	12:00	21:00	35432/5	09:00	1	49268.25

2

3

- EC
- T/LOG
- NRC
- A/C Times
- Material Management
- Shortage

1

The A/C TIMES application allows users to register aircraft and APU utilization: total and the last flight cycles and hours. To begin to work with this submodule, you need click “A/C Times” button (1) on the right side of the PART M module list. On the left side of window there is A/C - APU Utilization Registration List (2). Here you can see the whole list of aircraft data. On the right side of window there is Editor page (3) for A/C utilization, APU utilization and ETOPS data.

The user's manual consists of seven sections: General Information, Aircraft Utilization, APU Utilization, Penalty Registration, Flight data filters and printout, Correction and APU Check.

Aircraft Utilization section provides step by step overview of the total hours and cycles calculation. Also, it is offered ETOPS flight registration if it is necessary. If you performed maintenance procedure before flight, you can type all data of maintenance result in the special window.

APU Utilization section explains how to register total APU hours and total APU cycles. Also, this section allows to print APU temperature.

Penalty Registration section is necessary to register penalties that will be displayed in case of helicopter utilization registration or in case of any types of aircraft if there is special flight operation condition that affects the component resource.

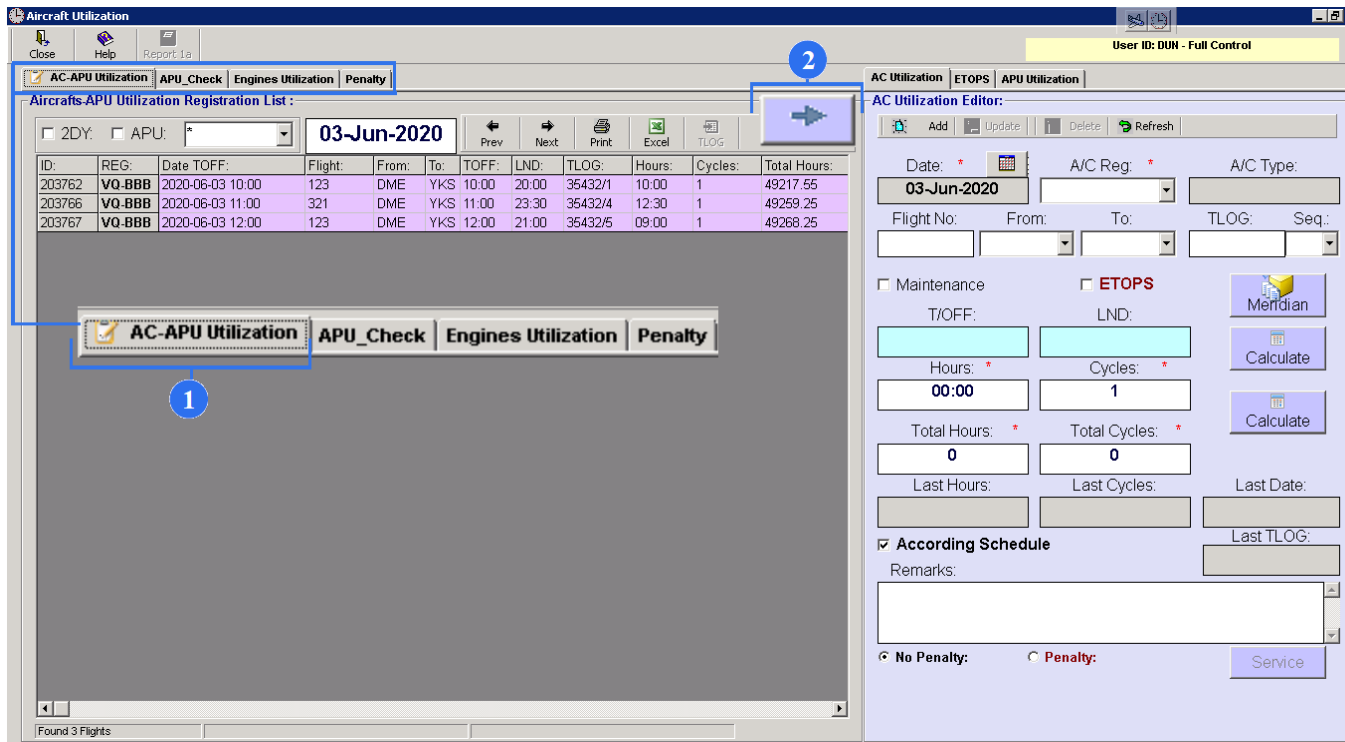
Flight Data Filters and Printout section gives you information about Date/A/C registration/APU utilization filters for quick searching of data. Also, you can know, how to transfer this data to Excel.

In case of incorrectly entered value or missing records you need correct AC Utilization value. Correction section provides recalculation of Total AC Utilization values from selected record to last record in sequence.

APU CHECK section allows to register APU start procedure in flight.

2. Aircraft Utilization

Aircraft Utilization section provides step by step overview of the total hours and cycles calculation. Also, it is offered ETOPS flight registration if it is necessary. If you performed maintenance procedure before flight, you can type all data of maintenance result in the special window.




1. To open an Aircrafts-APU Utilization Registration List, click on the AC-APU Utilization button.

2. To open the AC Utilization Editor, click on the arrow button.

AC Utilization | ETOPS | APU Utilization

AC Utilization Editor:

Add | Update | Delete | Refresh

3 Date: *  03-Jun-2020

4 A/C Reg: * A/C Type:

Flight No: From: To: TLOG: Seq.:

5

3. An Aircraft Editor will automatically generate a today's date. If the edit date is not today, use the calendar to select the correct flight date of proper aircraft.

4. Select aircraft registration. Aircraft type will appear automatically.

5. Write in Flight No/From/To fields

Maintenance **ETOPS**

Meridian

T/OFF: LND:

Hours: * Cycles: *

Calculate

Total Hours: * Total Cycles: *

Last Hours: Last Cycles: Last Date:

According Schedule

Remarks:

No Penalty: **Penalty:**

Service

6. Type the takeoff time (T/OFF field) and landing time (LND field) (UTC), then click on the Calculate button, and the system will calculate flight hours. Also, you can manual fill Hours field or Cycles field without calculation.

7. To calculate total hours and total cycles, click on the Calculate button. Last Hours and Last Cycles fields are refilled by the system automatically. The Last Date information and Last TLOG data are also provided.

AC Utilization | **ETOPS** | **APU Utilization**

AC Utilization Editor:

8
 Date: *
 A/C Reg: *
 A/C Type:

Flight No:
 From:
 To:
 TLOG:
 Seq.:

Aircraft Utilization

Aircrafts-APU Utilization Registration List :

2DY:
 APU:

ID:	REG:	Date TOFF:	Flight:	From:	To:	TOFF:	LND:	TLOG:	Hours:	Cycles:	Total Hours:
203762	VQ-BBB	2020-06-03 10:00	123	DME	YKS	10:00	20:00	35432/1	10:00	1	49217.55
203766	VQ-BBB	2020-06-03 11:00	321	DME	YKS	11:00	23:30	35432/4	12:30	1	49259.25
203767	VQ-BBB	2020-06-03 12:00	123	DME	YKS	12:00	21:00	35432/5	09:00	1	49268.25

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8. Click on the ADD button (at the top of the editor) to save data.





9. You can see saved aircraft utilization data on the Aircrafts-APU Utilization Registration List.


NOTE: Fields with a reference marks (*) are mandatory to fill. 'TLog' field can be also filled as 'N/A'.



NOTE: In case of incorrectly entered value or missing records "Correction" button is used to recalculation new total hours value. More information you can see in the Correction chapter on the page 19.

AC Utilization | **ETOPS** | **APU Utilization**




AC Utilization Editor:

 Add  Update  Delete  Refresh

Date: * ¹⁰  03-Jun-2020

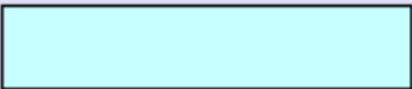
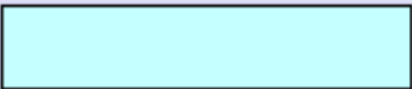
A/C Reg: * ¹¹  A/C Type: 

Flight No: From: To: TLOG: Seq:


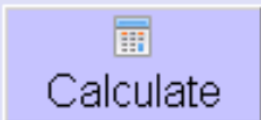
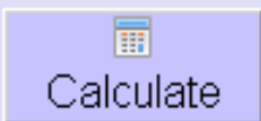
Maintenance **ETOPS**

T/OFF: LND:

Hours: * Cycles: *


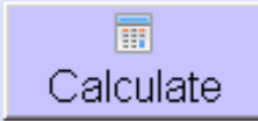
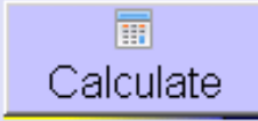
Total Hours: * Total Cycles: *

10. You can update the new data. Highlight the line (view 9) and click on the UPDATE button.

11. To remove flight data of the corresponding aircraft, highlight the line (view 9) and click on the DELETE button.

12. To reset all data, click on the REFRESH button.

<input type="checkbox"/> Maintenance	<input checked="" type="checkbox"/> ETOPS ¹⁴	
T/OFF:	LND:	
<input type="text" value="00:00"/>	<input type="text" value="1"/>	
Hours: *	Cycles: *	
<input type="text" value="0"/>	<input type="text" value="0"/>	
Total Hours: *	Total Cycles: *	
<input type="text" value=""/>	<input type="text" value=""/>	Last Date:
Last Hours:	Last Cycles:	<input type="text" value=""/>
<input checked="" type="checkbox"/> According Schedule		Last TLOG:
Remarks:		<input type="text" value=""/>
<input checked="" type="radio"/> No Penalty:		<input type="button" value="Service"/>
<input type="radio"/> Penalty: ¹³		

13. Registering Airplane Utilization, tick the No Penalty field. It is necessary for any types of aircraft if there is special flight operation condition that affects the component resource. More information you can see in the “Penalty registration” chapter on the page 30.

14. If it is ETOPS flight, tick the ETOPS field.

15

AC Utilization **ETOPS** APU Utilization

ETOPS Editor:

18 **20** **21** **22**

Date:
 A/C Reg:
 A/C Type:

Flight No:
 From:
 To:
 TLOG:
 Seq.:

16

TOFF: 10:00 - LND: 20:00

ETOPS IN (HH:MM): *
 ETOPS OUT (HH:MM): *
 ETOPS TIME:

17

ID:	ETOPS_IN:	ETOPS_OUT:	ETOPS_TIME:
2520	12:00	13:00	01:00

19

15. To open ETOPS Editor, click ETOPS button on the top of the Editor list.

16. Data such as Date, A/C Reg, A/C Type, Flight No, From, To and TLOG will appear automatically.

17. Type the ETOPS IN time and ETOPS OUT time. The system automatically calculates ETOPS time difference.

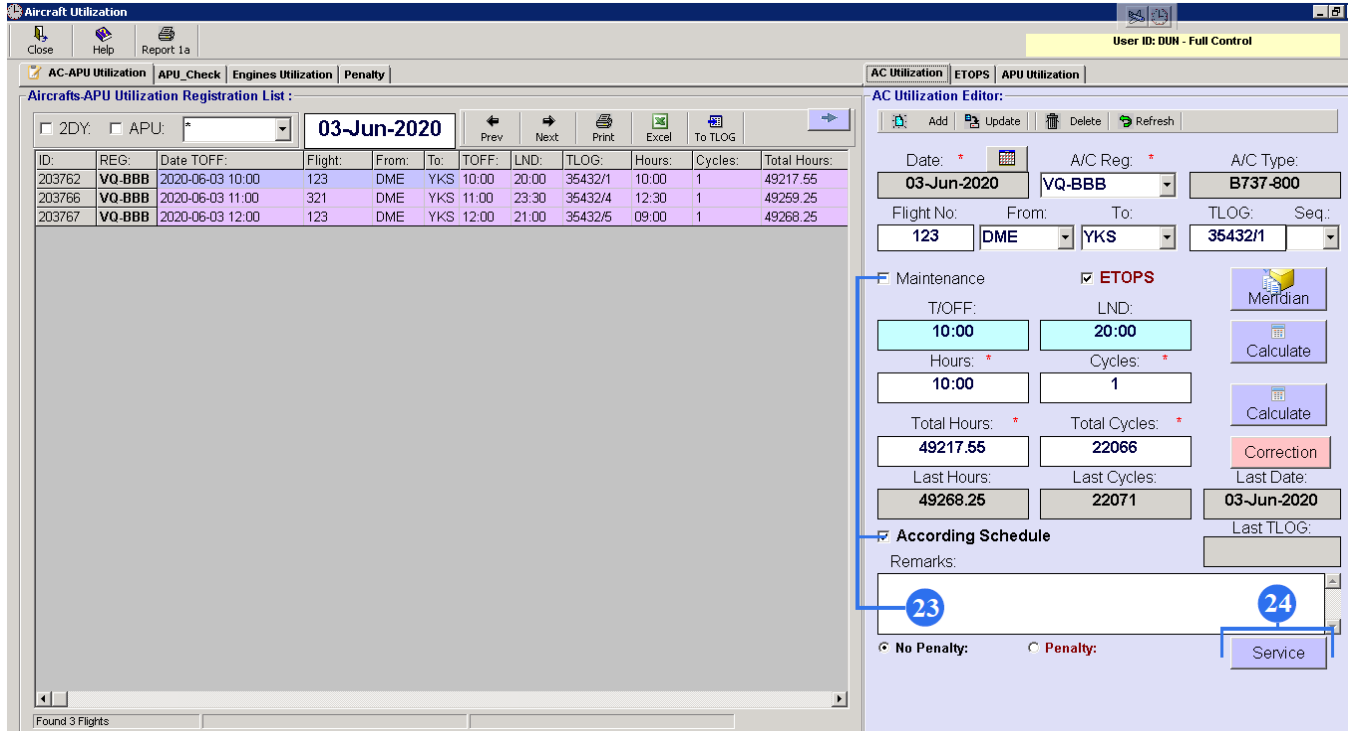
18. Click on the ADD button (at the top of the editor) to save data.

19. You can see saved ETOPS data on the ETOPS Editor List below.

20. You can update the new ETOPS data. Highlight the line (view 19) and click on the UPDATE button.

21. To remove ETOPS data, highlight the line (view 19) and click on the DELETE button.

22. To reset all ETOPS data, click on the REFRESH button.



Aircrafts.APU Utilization Registration List:

ID:	REG:	Date TOFF:	Flight:	From:	To:	TOFF:	LND:	TLOG:	Hours:	Cycles:	Total Hours:
203762	VQ-BBB	2020-06-03 10:00	123	DME	YKS	10:00	20:00	35432/1	10:00	1	49217.55
203766	VQ-BBB	2020-06-03 11:00	321	DME	YKS	11:00	23:30	35432/4	12:30	1	49259.25
203767	VQ-BBB	2020-06-03 12:00	123	DME	YKS	12:00	21:00	35432/5	09:00	1	49268.25

AC Utilization Editor:

Date: 03-Jun-2020 | A/C Reg: VQ-BBB | A/C Type: B737-800

Flight No: 123 | From: DME | To: YKS | TLOG: 35432/1 | Seq.: [dropdown]

Maintenance | ETOPS

T/OFF: 10:00 | LND: 20:00

Hours: 10:00 | Cycles: 1

Total Hours: 49217.55 | Total Cycles: 22066

Last Hours: 49268.25 | Last Cycles: 22071 | Last Date: 03-Jun-2020

Remarks: [Text Area] (23)

No Penalty | Penalty

[Service] (24)

23. You can tick Maintenance field and According Schedule field as supporting information.

24. Click on the Service button if you performed maintenance procedure (oil servicing, refuel operation, tire pressure check, work orders). You will see TLOG LINE CHECK window.

TLOG LINE CHECK
✕

Station :

T/Log Number : *

Seq:

25 37

A/C Reg. : *

A/C Type : *

DATE : *

TIME: hh:mm

Flight No. :

FH : *

FC : *

Raised by : *

PR

Mtx

Schd

Ref. WO/WP:

Wheel Pressure, Psi

	NW1 :	NW2 :	MW1 :	MW2 :	MW3 :	MW4 :
Checked :	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Inflated to :	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>

Oils. Qt

APU rem :	<input type="text" value="0"/>	GD1 :	<input type="text" value="0"/>
E1 rem :	<input type="text" value="0"/>	GD2 :	<input type="text" value="0"/>
E1 :	<input type="text" value="0"/>	H1 :	<input type="text" value="0"/>
E2 rem :	<input type="text" value="0"/>	H2 :	<input type="text" value="0"/>
E2 :	<input type="text" value="0"/>	H3 :	<input type="text" value="0"/>
Strt1 :		<input type="text" value="0"/>	
Strt2 :		<input type="text" value="0"/>	

Fuel Info:

PRIOR FUELLING :	<input type="text" value="0"/>
UPLIFT :	<input type="text" value="0"/>
DEPARTURE :	<input type="text" value="0"/>
ARRIVAL :	<input type="text" value="0"/>

CRS by : *

CRS Date *

CRS UTC : *

Rll by :

CRS STA : *

Hour:

Minute:

FF/TR: DY/SC: WY: L-Check:

29 30 31 32 33 34 35 36 38

25. Station and T/Log Number will appear automatically.

26. Data such as A/C Reg, A/C Type, Date, FH and FC will appear automatically. If the edit date is not today, use the calendar to select the correct flight date of proper aircraft. Fill the "TIME" and "Flight No" fields.

27. Select a mechanical ID number in "Raised by" field. If it is necessary, tick PR or Mtx or Schd field, where:

- PR – Pilot Remarks. Pilot makes report about fault in TLB before departure or after arrival.
- Mtx – Maintenance Remarks. Fault report is made in TLB by maintenance staff.
- Schd – Schedule Remarks. It means defect rectification, or troubleshooting procedure during ground time.

In the WO/WP field please select work order number or work package number related Line Check.

13

TLOG LINE CHECK
✕

Station : TLL

TLog Number : * 35432/1 Seq:

A/C Reg. : * VQ-BBB A/C Type : * B737-800 DATE : * 03-Jun-2020 TIME: hh:mm 10:00 Flight No. : 123 FH : * 49217.55 FC : * 22066

Raised by : * PR Mtx Schd Type : Ref. WO/WP:

Wheel Pressure, Psi

	NW1 :	NW2 :	MW1 :	MW2 :	MW3 :	MW4 :
Checked :	0	0	0	0	0	0
Inflated to :	0	0	0	0	0	0

Oils. Qt

APU rem : 0	GD1 : 0
E1 rem : 0	APU : 0
E1 : 0	GD2 : 0
E2 rem : 0	H1 : 0
E2 : 0	H2 : 0
	H3 : 0
	Strt1 : 0
	Strt2 : 0

Fuel Info:

PRIOR FUELLING :	0
UPLIFT :	0
DEPARTURE :	0
ARRIVAL :	0

CRS by : * CRS Date * 03-Jun-2020 CRS UTC : * 10:00

Rll by : CRS STA : * TLL Hour: 00 Minute: 00

FF/TR: DY/SC: WY: L-Check:

28. Enter NW (Nose Wheel) and MW (Main Wheel) pressure data when checking and after inflated.

29. Enter result of engines oil servicing. For example, E1 rem means oil remain of the engine #1, but E1 means oil quantity after engine #1 after refill.

30. Enter result of APU oil servicing. APU rem means APU oil remain.

31. Enter result of hydraulic reservoir servicing. For example, H1 means hydraulic quantity of the first reservoir.

32. Enter result of drive generator oil servicing. For example, GD1 means generator drive of engine #1.

33. Enter result of starter oil servicing. For example, Strt1 means starter of engine #1.

TLOG LINE CHECK
✕

Station :

TLog Number: * Seq:

A/C Reg. : *

A/C Type : *

DATE : *

TIME: hh:mm

Flight No. :

FH : *

FC : *

Raised by : *

Type: PR Mtx Schd

Ref. WO/WP:

Wheel Pressure, Psi

	NW1 :	NW2 :	MW1 :	MW2 :	MW3 :	MW4 :
Checked :	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Inflated to :	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>

Oils. Qt

APU rem: <input type="text" value="0"/>	GD1: <input type="text" value="0"/>
E1 rem: <input type="text" value="0"/>	APU: <input type="text" value="0"/>
E1: <input type="text" value="0"/>	H1: <input type="text" value="0"/>
E2 rem: <input type="text" value="0"/>	H2: <input type="text" value="0"/>
E2: <input type="text" value="0"/>	H3: <input type="text" value="0"/>
Strt1: <input type="text" value="0"/>	
Strt2: <input type="text" value="0"/>	

Fuel Info:

PRIOR FUELLING :	<input type="text" value="0"/>
UPLIFT :	<input type="text" value="0"/>
DEPARTURE :	<input type="text" value="0"/>
ARRIVAL :	<input type="text" value="0"/>

CRS by : *

CRS Date * CRS UTC: *

Rll by : CRS STA : * Hour: Minute:

FF/TR: DY/SC: WY: L-Check:

34. Enter refuelling procedure data, where:

- PRIOR FUELLING –remain of fuel on the board.
- UPLIFT – refuelling quantity.
- DEPARTURE – total fuel quantity on the board before flight.
- ARRIVAL – remain of fuel on the board after arrival.

35. Enter mechanical ID number to “CRS by” field, type CRS date and CRS time (in UTC). If another person was involved in the work, you can note additional signature in the “Rll by field”. Type the airport station, where CRS was issued. Also, you can enter hours and minutes to display the total work time of the maintenance staff.

TLOG LINE CHECK
✕

Station :

TLog Number: * Seq:

Add
 Update
 Refresh

A/C Reg. : *	A/C Type : *	DATE : *	TIME: hh:mm	Flight No. :	FH : *	FC : *
<input type="text" value="VQ-BBB"/>	<input type="text" value="B737-800"/>	<input type="text" value="03-Jun-2020"/>	<input type="text" value="10:00"/>	<input type="text" value="123"/>	<input type="text" value="49217.55"/>	<input type="text" value="22066"/>

Raised by : *

Type: PR Mtx Schd

Ref. WO/WP:

Wheel Pressure, Psi

	NW1 :	NW2 :	MW1 :	MW2 :	MW3 :	MW4 :
Checked :	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>
Inflated to :	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>	<input type="text" value="0"/>

Oils. Qt

APU rem: <input type="text" value="0"/>	GD1: <input type="text" value="0"/>
E1 rem: <input type="text" value="0"/>	GD2: <input type="text" value="0"/>
E1: <input type="text" value="0"/>	H1: <input type="text" value="0"/>
E2 rem: <input type="text" value="0"/>	H2: <input type="text" value="0"/>
E2: <input type="text" value="0"/>	H3: <input type="text" value="0"/>
Strt1: <input type="text" value="0"/>	
Strt2: <input type="text" value="0"/>	

Fuel Info:

PRIOR FUELLING:	<input type="text" value="0"/>
UPLIFT:	<input type="text" value="0"/>
DEPARTURE:	<input type="text" value="0"/>
ARRIVAL:	<input type="text" value="0"/>

CRS by : *	CRS Date *	CRS UTC : *
<input type="text"/>	<input type="text" value="03-Jun-2020"/>	<input type="text" value="10:00"/>
Rll by :	CRS STA : *	Hour: Minute:
<input type="text"/>	<input type="text" value="TLL"/>	<input type="text" value="00"/> <input type="text" value="00"/>

FF/TR: DY/SC: WY: L-Check:

36. Select by tick the type of line maintenance, where:

- FF/TR – transit check
- DY/SC – daily check
- WY – weekly check
- L-check – line check

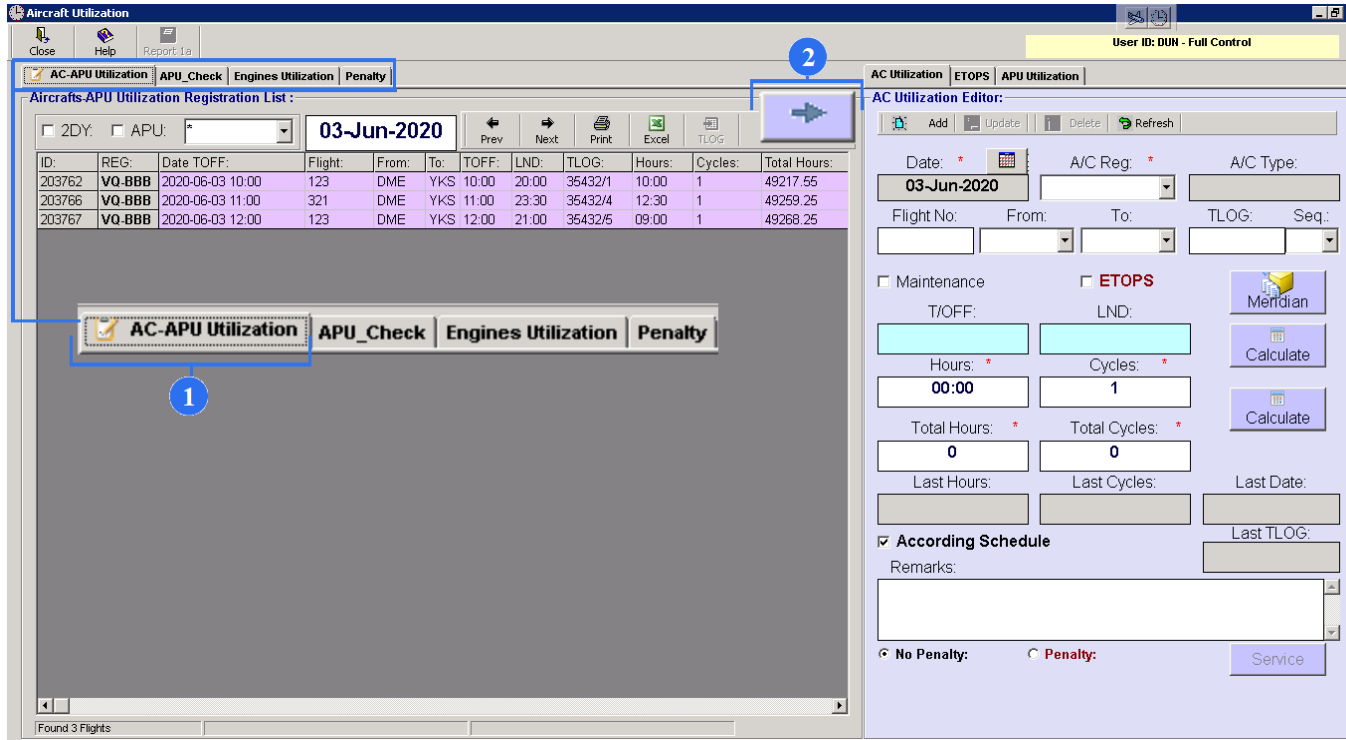
37. To save entered data push “Add” on the upper toolbar.

After TLOG LINE CHECK editing completion you can still change other fields. After new data enter click Update button on the upper toolbar. To reset all data, click on the REFRESH button.

38. To close TLOG LINE CHECK window, push “CLOSE” button on the right bottom side of the window.

3. APU Utilization

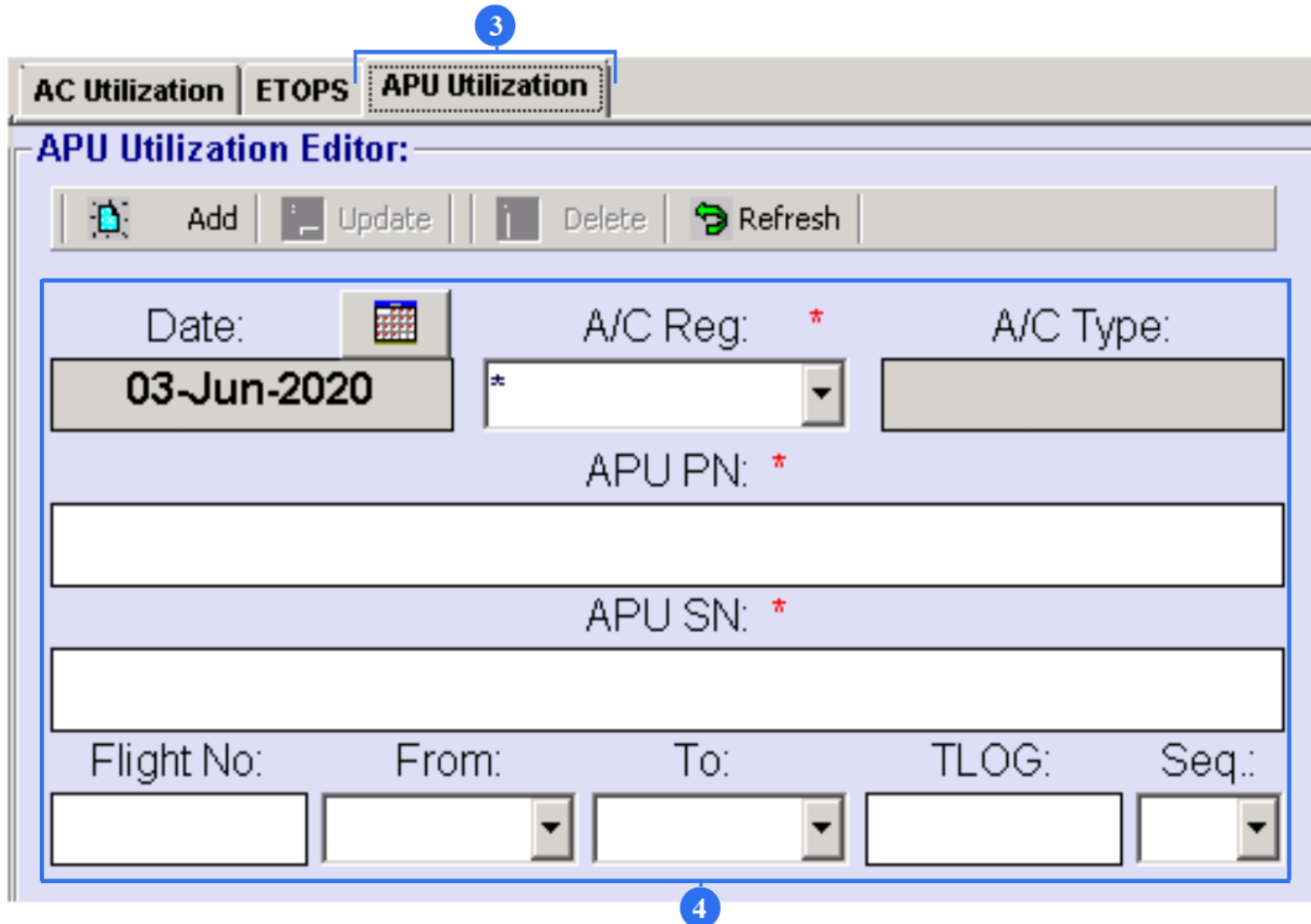
APU Utilization section explains how to register total APU hours and total APU cycles. Also, this section allows to print APU temperature.



1. To open an Aircrafts-APU Utilization Registration List, click on the AC-APU Utilization button.

2. To open the APU Utilization Editor, click on the arrow button.

NOTE: Fields with a reference marks (*) are mandatory to fill. 'TLog' field can be also filled as 'N/A'.



AC Utilization | **ETOPS** | **APU Utilization**

APU Utilization Editor:

Add | Update | Delete | Refresh

Date: A/C Reg: * A/C Type:

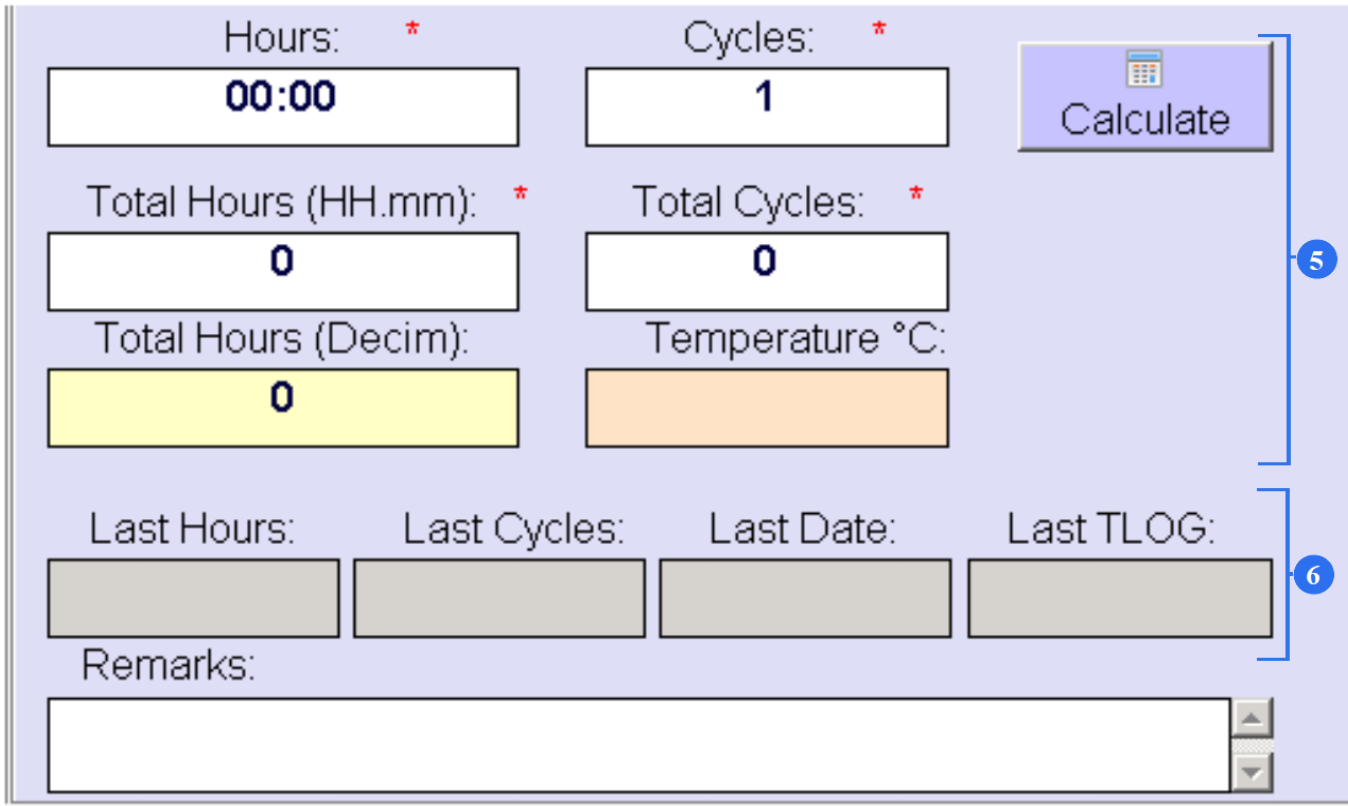
APU PN: *

APU SN: *

Flight No: From: To: TLOG: Seq.:

3. Select APU Utilization tab at the top of the editor.

4. An APU Editor will automatically generate a today's date. If the edit date is not today, use the calendar to select the correct flight date of proper aircraft. Select aircraft registration. Aircraft type will appear automatically. Write in Flight No/From/To and TLOG fields.



The screenshot displays a software interface for recording A/C times. It features several input fields and a calculation button. The 'Hours' field is set to '00:00' and the 'Cycles' field is set to '1'. The 'Calculate' button is highlighted. Below these are fields for 'Total Hours (HH.mm):' (0), 'Total Hours (Decim):' (0), and 'Temperature °C:'. At the bottom, there are four summary fields: 'Last Hours', 'Last Cycles', 'Last Date', and 'Last TLOG', all currently empty. A 'Remarks' field is also present at the bottom.


5. Type hours and cycles. To calculate total hours and cycles click on the Calculate button. Total Hours (HH.mm) field lets you to read APU total hours in decimal value. Also, you can type temperature data.

6. The Last Hours, Last Cycles, Last Date and Last TLOG are also provided.

AC Utilization | ETOPS | APU Utilization

APU Utilization Editor:

7 Add 8 Update 9 Delete 10 Refresh

7 Date: 8 

04 Jun-2020

A/C Reg: * VQ-BBB

A/C Type: B737-800

APU PN: * 3800702-1

APU SN: * P-5612

Flight No: From: To: TLOG: Seq:

7. Click on the ADD button to save data.

8. You can update the new APU data. Highlight the line (view 12) and click on the UPDATE button.

9. To remove APU data, highlight the line (view 12) and click on the DELETE button.

10. To reset all APU data, click on the REFRESH button.

Aircraft Utilization

Close Help

AC-APU Utilization APU_Check Penalty

Aircrafts-APU Utilization Registration List :

2DY: APU: **VP-BCH** **Jun-2019** [Prev] [Next] [Print] [Excel] [TLOG] [Filter]

ID:	REG:	Date TOFF:	Flight:	From:	To:	TOFF:	LND:	TLOG:	Hours:	Cycles:	Total Hrs
60137	VP-BCH	2019-06-01 10:46	9789	HHN	OVB	10:46	16:06	001964	05:20	1	75057
60138	VP-BCH	2019-06-01 19:31	9889	OVB	CGO	19:31	23:22	001965	03:51	1	75060

Round 26 Flights

ID:	Reg:	Date:	Flight:	APU_PN:	APU_SN:	From:	To:	TLOG:	Hours:	Cycles:	Total Hours
187	VP-BCH	2019-06-09		PW901A	PCE900711	HHN	HHN		19207:07	16120	19207

11

12

11. To see save APU data, it is necessary to tick APU field on the Aircrafts-APU Utilization Registration List.

12. You will see two fields: upper field is Aircraft utilization data and down field is APU utilization data.

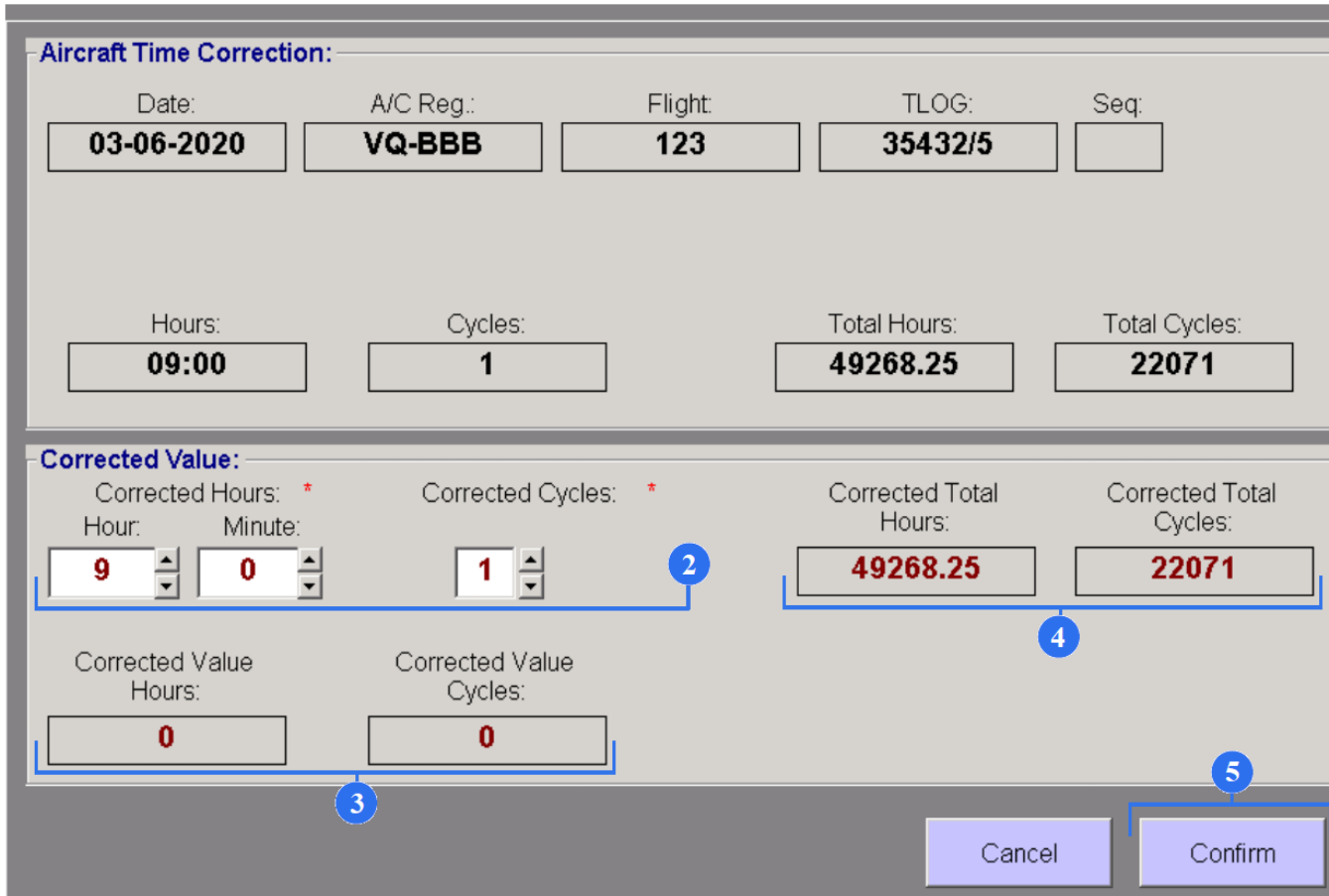
4. Correction

In case of incorrectly entered value or missing records you need correct AC Utilization value. Correction section provides recalculation of Total AC Utilization values from selected record to last record in sequence.

The screenshot shows the 'Aircraft Utilization' software interface. On the left is the 'Aircrafts-APU Utilization Registration List' with columns for ID, REG, Date, TOFF, Flight, From, To, TOFF, LND, TLOG, Hours, Cycles, and Total Hours. A record for ID 53618 is highlighted. On the right is the 'AC Utilization Editor' panel, which includes fields for Date (27-Feb-2019), A/C Reg (VP-BCH), A/C Type (B747-400F), Flight No (MAINT), From (BBB), To (AAA), and TLOG (001882). It also has input fields for Hours (00:00) and Cycles (0), and summary fields for Total Hours (74674.05) and Total Cycles (13913). A 'Correction' button is highlighted with a blue box. Below the editor panel, a separate box labeled 'Correction' with a circled '1' below it is connected to the 'Correction' button in the editor panel by a blue line.

1. Select on the Aircraft-APU Utilization Registration List the record needs to be corrected and push "Correction button" on the AC Utilization Editor and correction editor will be run.

NOTE: Correction editor consist of two frames. Upper frame is called by Aircraft Time Correction. It shows current value (selected record). Lower frame is called by Corrected Value. It permits to correct hours and cycles and show s new Total AC Utilization values from selected record to last record in sequence.



Aircraft Time Correction:

Date:	A/C Reg.:	Flight:	TLOG:	Seq:
03-06-2020	VQ-BBB	123	35432/5	

Hours:	Cycles:	Total Hours:	Total Cycles:
09:00	1	49268.25	22071

Corrected Value:

Corrected Hours: *	Corrected Cycles: *	Corrected Total Hours:	Corrected Total Cycles:
Hour: 9 Minute: 0	1	49268.25	22071

Corrected Value Hours:	Corrected Value Cycles:
0	0

Cancel Confirm

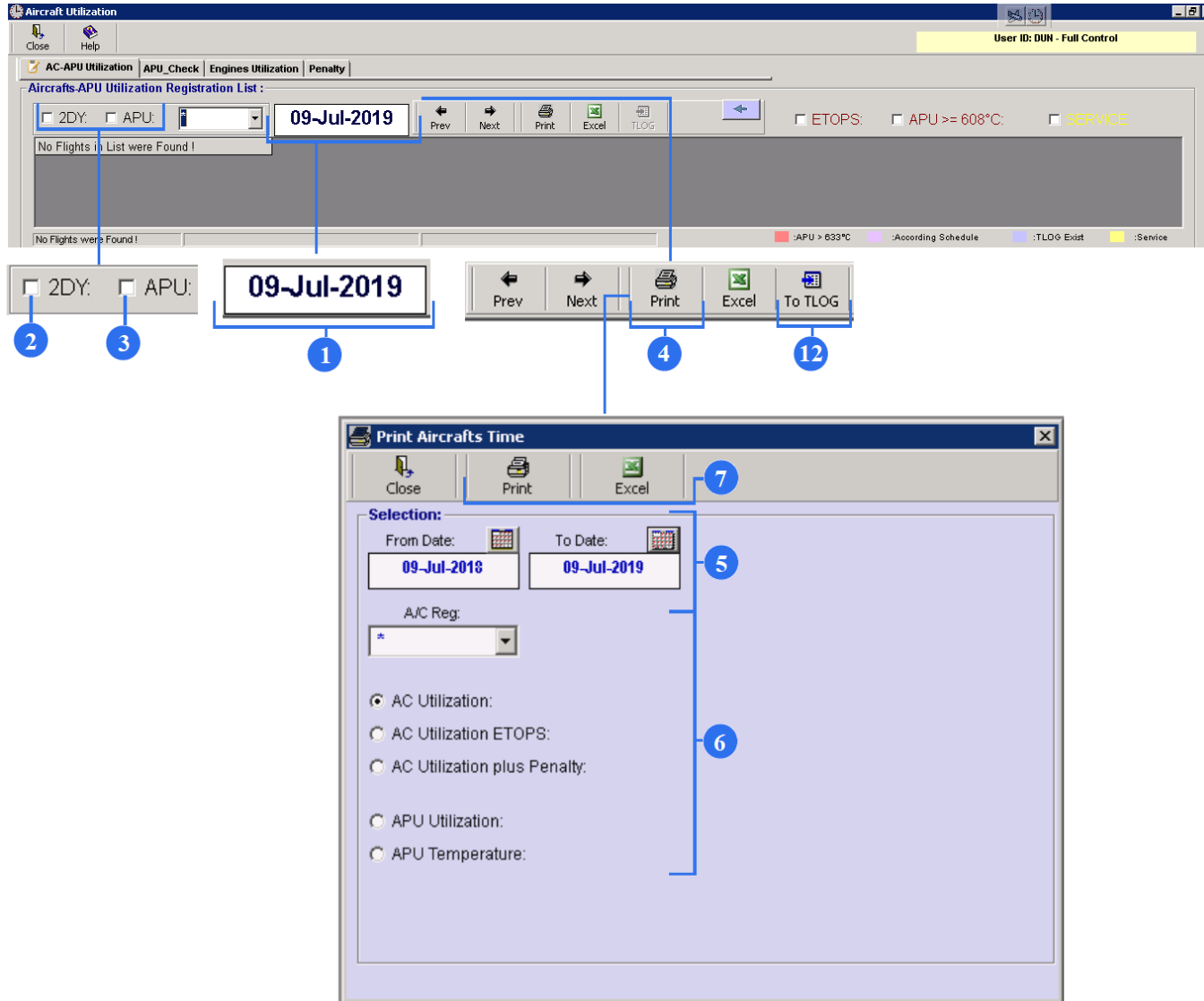
2. Type new hours and minutes. You can also type new cycles.
3. Difference of the hours and cycles will automatically appear.
4. You can see corrected total hours and total cycles data.
5. Push “Confirm” button to run recalculation of Total AC Utilization values from selected record to last record in sequence.

In case of missing records do these steps:

- Enter the missing record (see Aircraft Utilization chapter on the page 3);
- Select record above newly inserted record;
- Open correction editor (push “Correction” button)

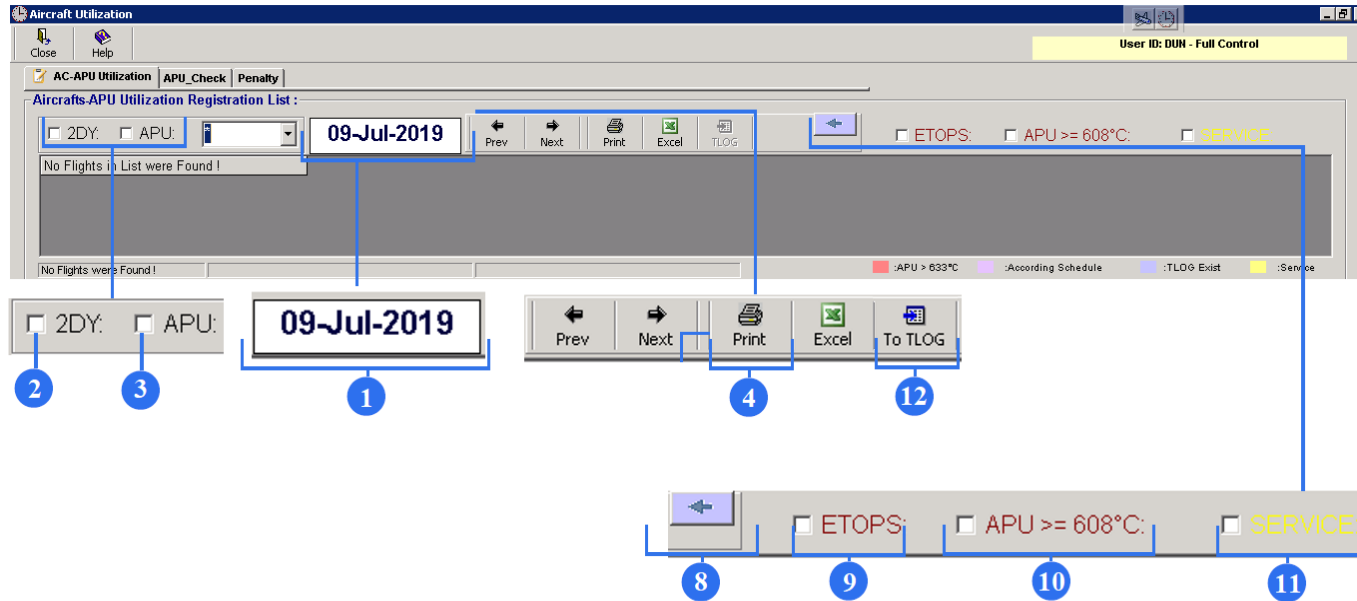
To run recalculation, click “Confirm” button with zero corrected value.

5. Flight Data Filters and Printout



The screenshot shows the 'Aircraft Utilization' software interface. The main window displays 'Aircrafts-APU Utilization Registration List' for the date '09-Jul-2019'. The interface includes a toolbar with buttons for '2DY', 'APU', 'Prev', 'Next', 'Print', 'Excel', and 'TLOG'. A secondary window titled 'Print Aircrafts Time' is open, showing a 'Selection' dialog with fields for 'From Date' (09-Jul-2018) and 'To Date' (09-Jul-2019), an 'A/C Reg' dropdown, and radio button options for 'AC Utilization' (selected), 'AC Utilization ETOPS', 'AC Utilization plus Penalty', 'APU Utilization', and 'APU Temperature'. Blue callout boxes with numbers 1 through 12 point to various UI elements: 1 points to the date field, 2 to the '2DY' checkbox, 3 to the 'APU' checkbox, 4 to the 'Print' button, 5 to the 'From Date' field, 6 to the 'AC Utilization' radio button, 7 to the 'Print' button in the secondary window, and 12 to the 'To TLOG' button.

1. You can view flights of a selected aircraft at a particular date. For this action enter a necessary date in the date field.
2. If you need to view flights of the day before a particular date, tick the “2DY” field.
3. To view registered APU, tick the “APU” field.
4. You can print out flight data within a particular period of time. Click on the PRINT button.
5. Select from date and to date.
6. Select an aircraft and type of AC or APU data.
7. Click on the PRINT button. To view and print aircrafts time in the Excel format, click on Excel button.
8. Push needle button and Editor page will disappear.
9. Tick the ETOPS field to select from the whole list of the aircraft utilization only lines with ETOPS status.



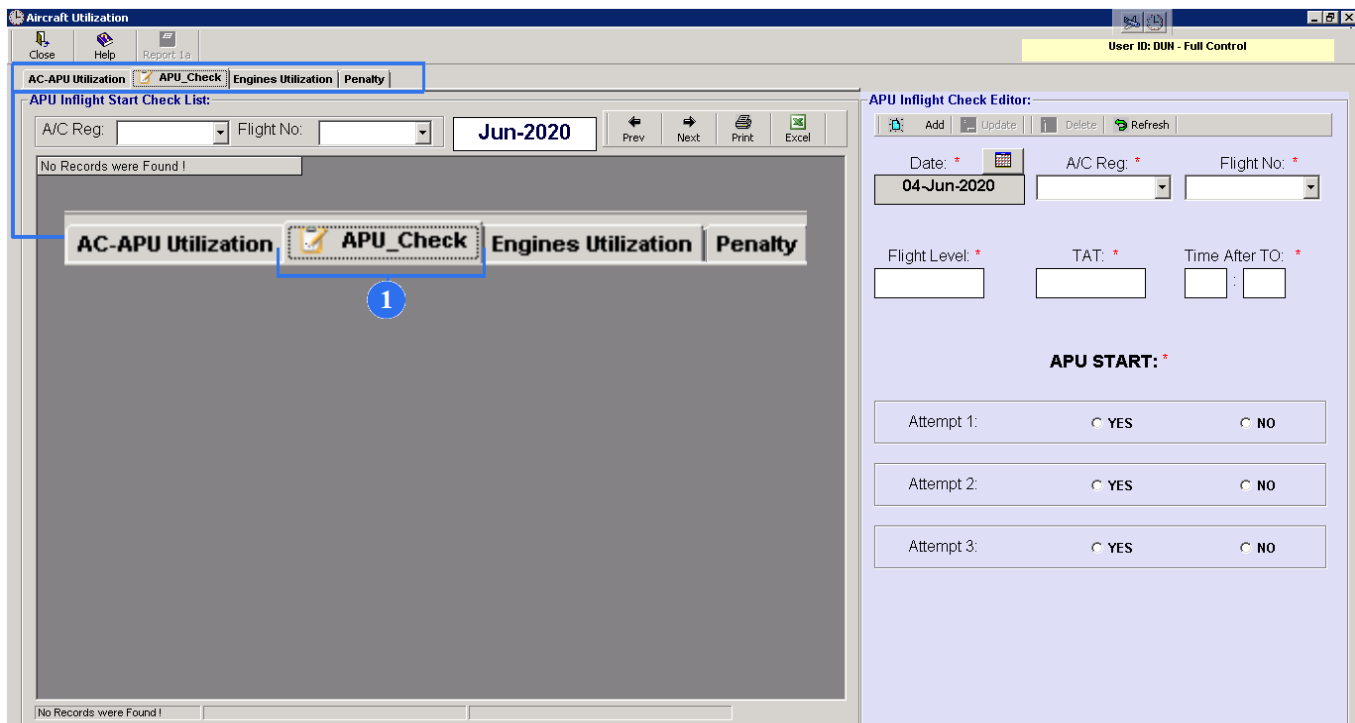
10. Tick the APU>=608°C field to select from the whole list of the aircraft utilization only lines with APU editor data, where temperature is more than 608°C.

11. Tick the SERVICE field to select from the whole list of the aircraft utilization only lines, where there are service during pre-flight check.

12. If there was maintenance during pre-flight check for example after arrival report about system failure, push “To TLOG” button to write in your action. TLOG submodule filling rule you can see in TLOG user guidance. (PART M module - select TLOG submodule - select HELP insert).

6. APU Check

APU CHECK section allows to register APU start procedure in flight.



The screenshot shows the 'Aircraft Utilization' application window. The 'APU Check' button in the top menu is highlighted with a blue circle and the number '1'. The 'APU Inflight Start Check List' section shows a search for 'Jun-2020' with 'No Records were Found!'. The 'APU Inflight Check Editor' section contains the following fields and options:

- Date: * (04-Jun-2020)
- A/C Reg: *
- Flight No: *
- Flight Level: *
- TAT: *
- Time After TO: *
- APU START: *
- Attempt 1: YES NO
- Attempt 2: YES NO
- Attempt 3: YES NO

1. APU Check is used to register APU start in flight. To open an APU Inflight Start Check List, click on the APU Check button.

NOTE: Fields with a reference marks (*) are mandatory to fill.

APU Inflight Check Editor:

7 8

5 6

Add Update Delete Refresh

Date: * 04-Jun-2020

A/C Reg: * Flight No: *

2

Flight Level: * TAT: * Time After TO: *

3

APU START: *

Attempt 1: YES NO

Attempt 2: YES NO 4

Attempt 3: YES NO

2. An APU Inflight Check Editor will automatically generate a today's date. If the edit date is not today, use the calendar to select the correct flight date of proper aircraft. Select aircraft registration and type Flight No.

3. Write in Flight Level/TAT/Time After TO fields.

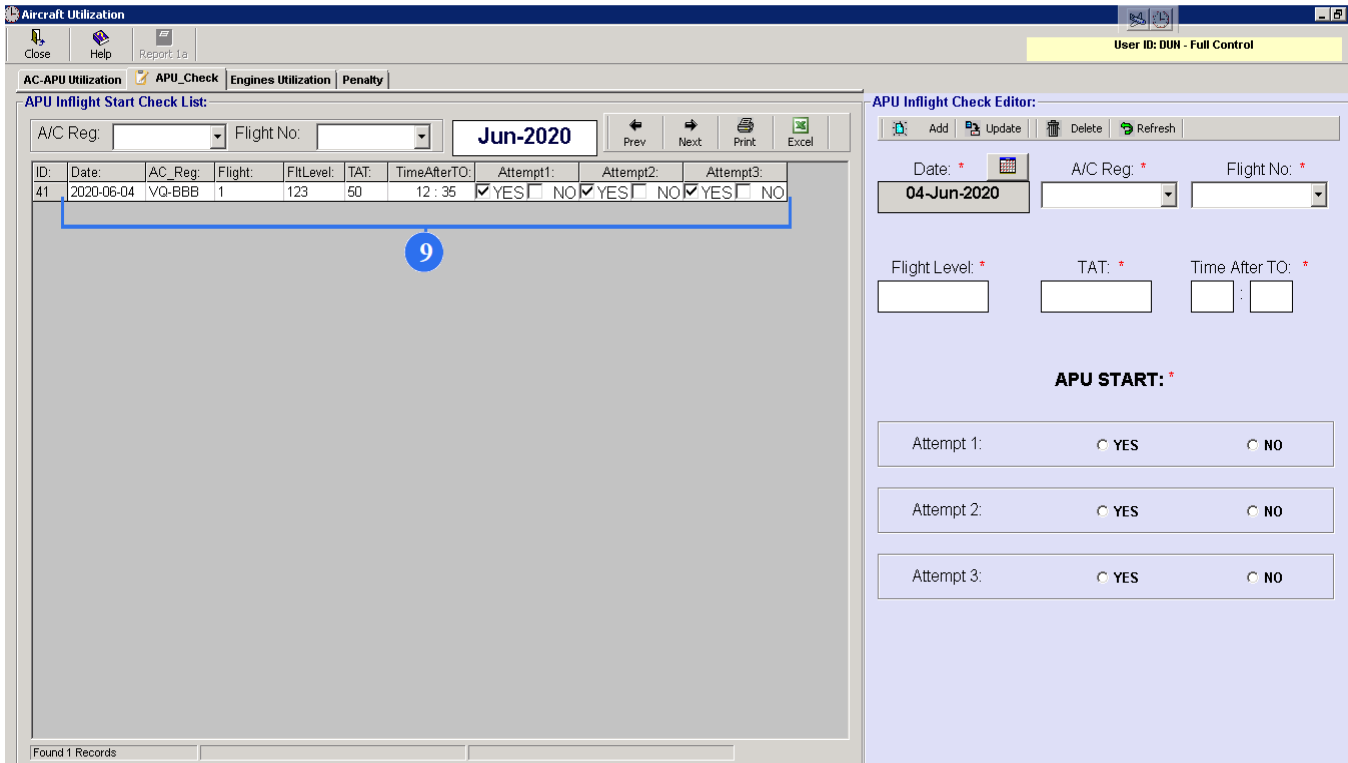
4. Tick Yes/No opposite each attempt.

5. Click on the ADD button to save data.

6. You can update the new data. Highlight the line (view 9) and click on the UPDATE button.

7. To remove APU inflight check data of the corresponding aircraft, highlight the line (view 9) and click on the DELETE button.

8. To reset all data, click on the REFRESH button.



The screenshot displays the 'Aircraft Utilization' application interface. The main window is titled 'Aircraft Utilization' and shows a navigation menu with 'AC-APU Utilization', 'APU_Check', 'Engines Utilization', and 'Penalty'. The 'APU_Check' tab is active, showing the 'APU Inflight Start Check List' and the 'APU Inflight Check Editor'.

The 'APU Inflight Start Check List' table contains the following data:

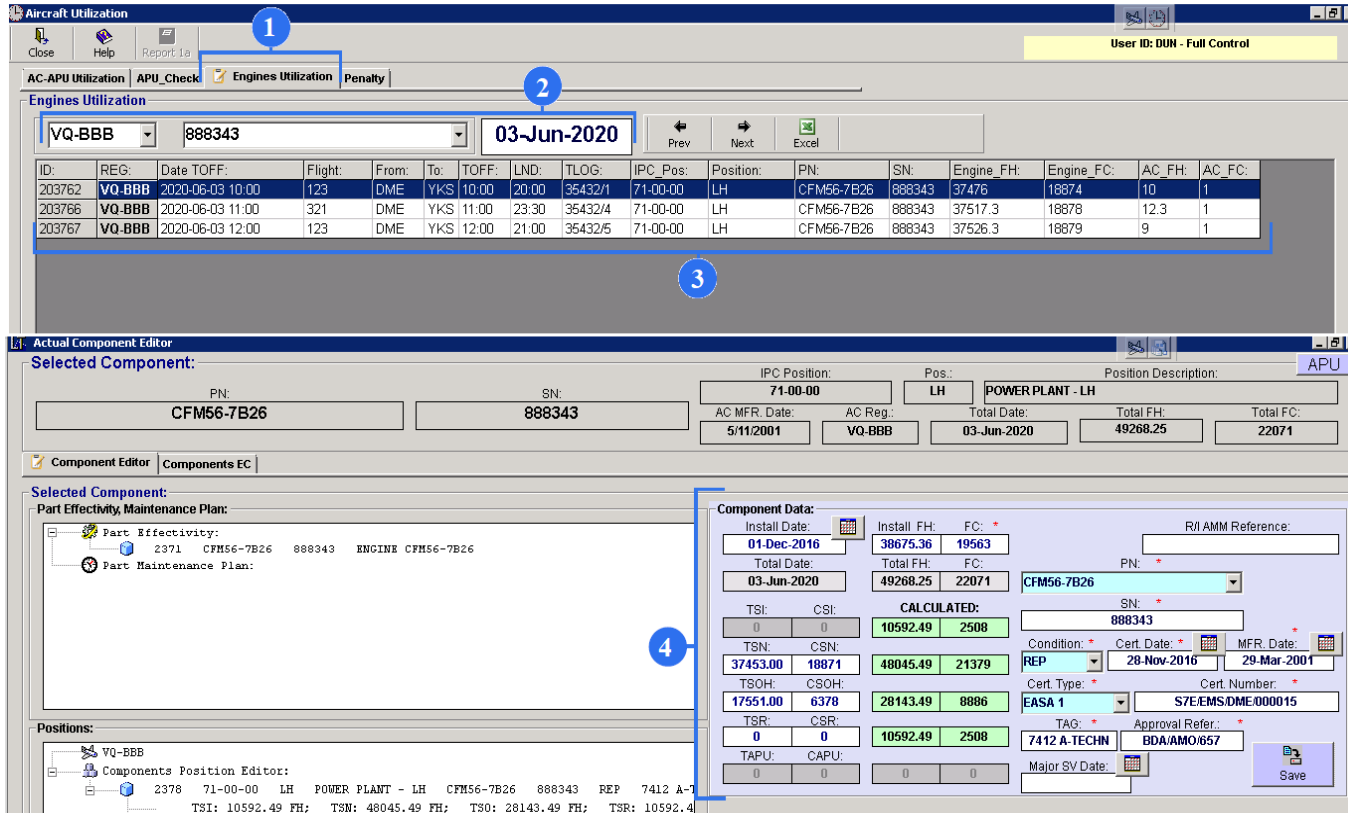
ID:	Date:	AC_Reg:	Flight:	FltLevel:	TAT:	TimeAfterTO:	Attempt1:	Attempt2:	Attempt3:
41	2020-06-04	VQ-BBB	1	123	50	12 : 35	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

The 'APU Inflight Check Editor' form includes fields for Date, A/C Reg, Flight No, Flight Level, TAT, and Time After TO. It also features three 'APU START' sections, each with radio buttons for YES and NO.

A blue circle with the number '9' is overlaid on the first row of the table in the 'APU Inflight Start Check List'.

9. You can see APU inflight check data on the APU Inflight Start Check List.

7. Engine Utilization



The screenshot displays the 'Aircraft Utilization' application interface. At the top, there are menu options like 'Close', 'Help', and 'Report List'. Below this, there are tabs for 'AC-APU Utilization', 'APU Check', 'Engines Utilization', and 'Penalty'. The 'Engines Utilization' tab is active, showing a table of engine utilization data for aircraft registration VQ-BBB, engine serial number 888343, and date 03-Jun-2020. The table has columns for ID, REG, Date TOFF, Flight, From, To, TOFF, LND, TLOG, IPC Pos, Position, PN, SN, Engine FH, Engine FC, AC FH, and AC FC. Below the table, there are fields for 'Selected Component' (PN: CFM56-7B26, SN: 888343) and 'Component Editor' (Components EC). The 'Component Editor' shows detailed data for the selected component, including 'Part Effectivity', 'Part Maintenance Plan', and 'Component Data' (Install Date, Total Date, TSI, CSN, TSN, CSOH, TSOH, TSR, CSR, TAPU, CAPU, etc.).

ID	REG	Date TOFF	Flight	From	To	TOFF	LND	TLOG	IPC Pos	Position	PN	SN	Engine FH	Engine FC	AC FH	AC FC
203762	VQ-BBB	2020-06-03 10:00	123	DME	YKS	10:00	20:00	35432/1	71-00-00	LH	CFM56-7B26	888343	37476	18874	10	1
203766	VQ-BBB	2020-06-03 11:00	321	DME	YKS	11:00	23:30	35432/4	71-00-00	LH	CFM56-7B26	888343	37517.3	18878	12.3	1
203767	VQ-BBB	2020-06-03 12:00	123	DME	YKS	12:00	21:00	35432/5	71-00-00	LH	CFM56-7B26	888343	37526.3	18879	9	1

1. To open an Engine Utilization List, click on the Engine Utilization tab.

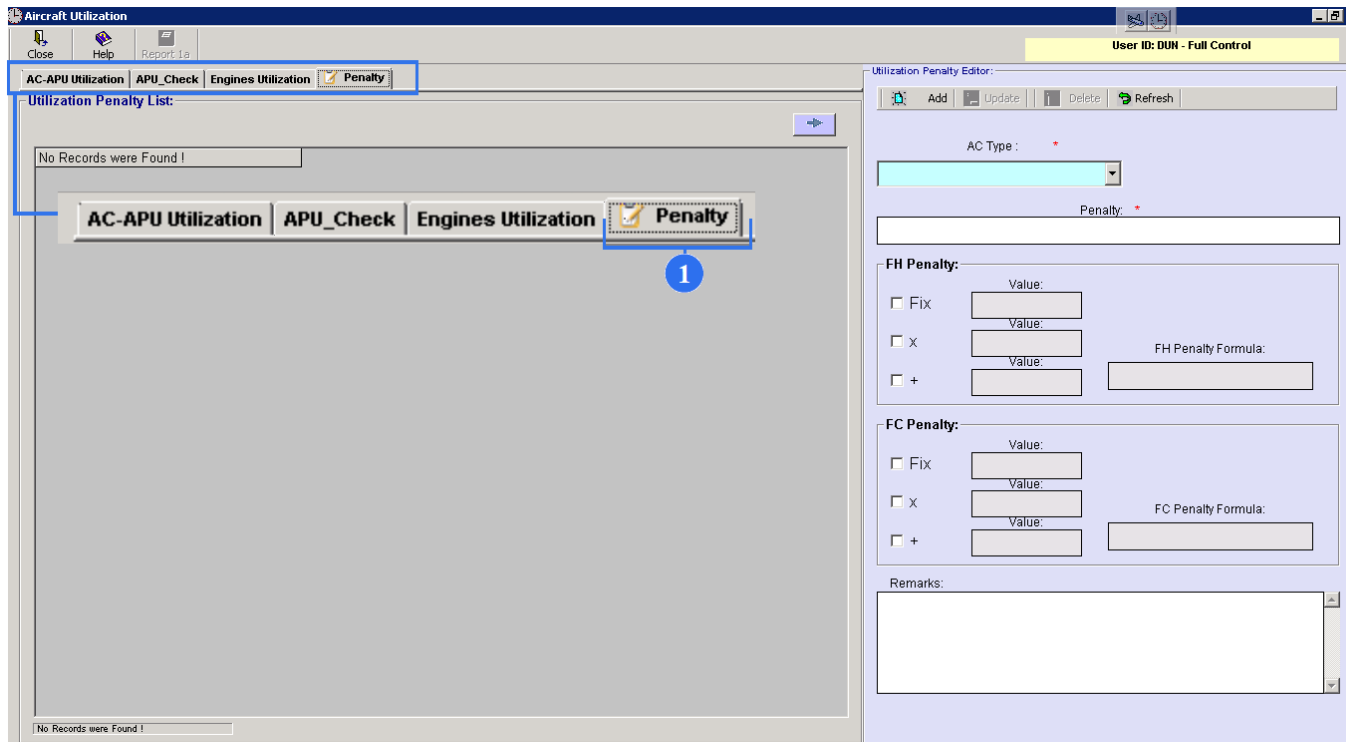
2. Select aircraft registration, serial number of engine and correct date.

3. You can see engine utilization information. This data is generated from AC Utilization. Last 4 columns are Engine FH (time since new), Engine FC (Cycle since new), AC FH (time in one flight) and AC FC.

4. Also, all engine data changes may be monitored in the "Actual Component Editor".

8. Penalty Registration.

Penalty Registration section is necessary to register penalties that will be displayed in case of helicopter utilization registration or in case of any types of aircraft if there is special flight operation condition that affects the component resource.







1. Click on the Penalty button to open Utilization Penalty List.

NOTE: Do not forget click Penalty field on the AC UTILIZATION EDITOR page.

NOTE: Fields with a reference marks (*) are mandatory to fill.

Utilization Penalty Editor:

 Add |  Update |  Delete |  Refresh

AC Type : *

Penalty: *

2

2. Select aircraft type and fill Penalty field by flight condition (for example- 27 nots wind).

FH Penalty:

Fix Value:

X Value:

+ Value:

FH Penalty Formula:

FC Penalty:

Fix Value:

X Value:

+ Value:

FC Penalty Formula:

Remarks:

3

3. All Penalties (Flight Hours/Cycles) can be:

- Fixed – “Fix”
- Multiplied – “X”
- Added – “+”

Type the value for penalty.

Utilization Penalty Editor:

4 5 6 7

AC Type : *

Penalty: *

4. Click on the ADD button to save.

5. You can update a penalty. Highlight it from the list of penalties, make changes and click on the update.

6. You can delete a penalty. Highlight it and click on the DELETE button.

7. To reset all data, click on the REFRESH button.