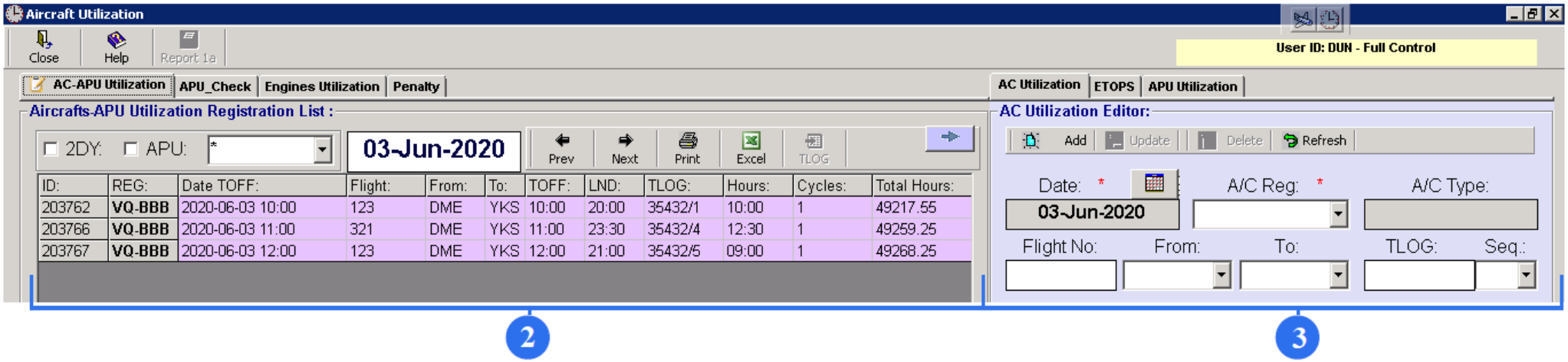
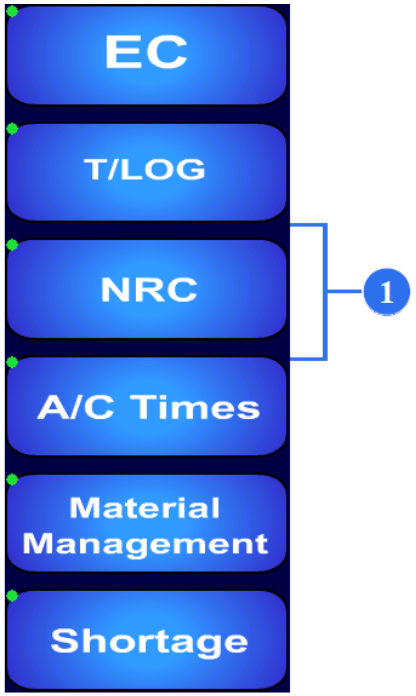
A/C TIMES – AIRCRAFTS TIMES

User Guidance

Contents

1. General Information





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.

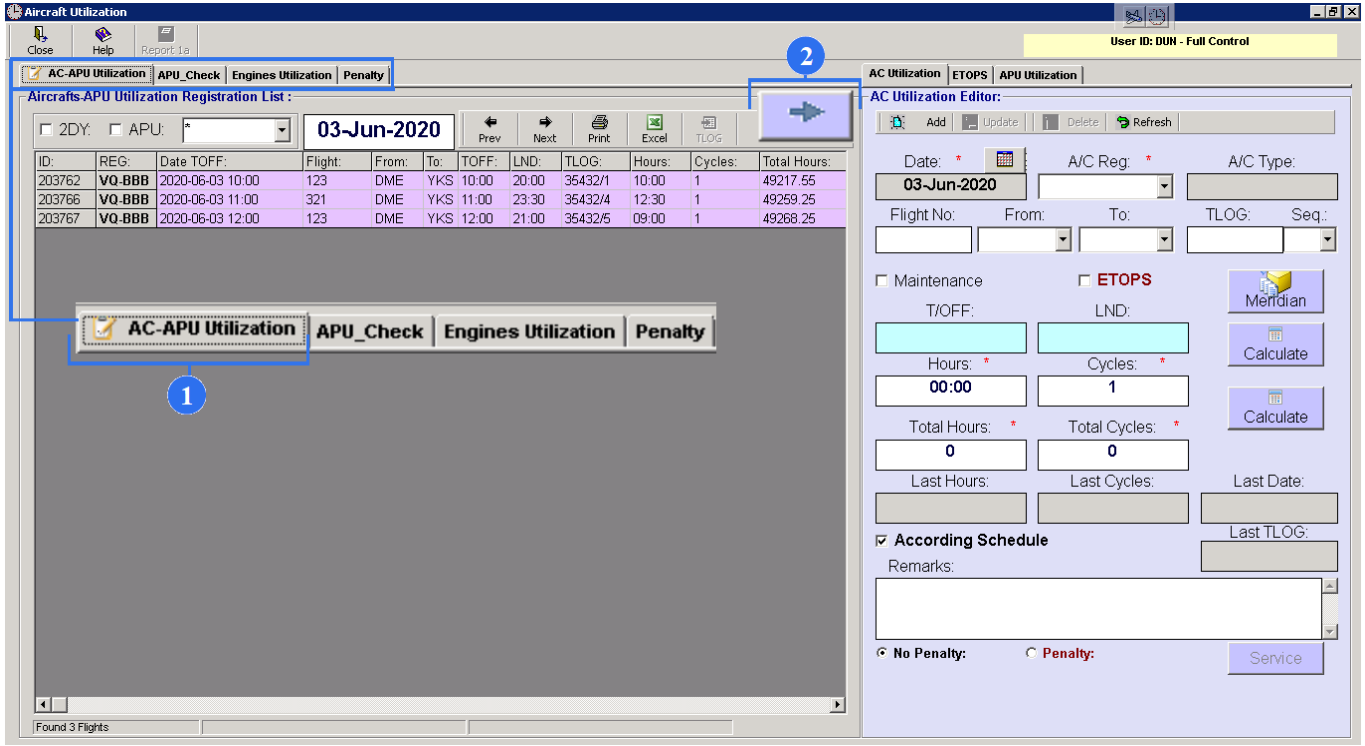
Flight Data Filters and Printout section gives you information about Date/A/C registration/APU utilization filters for quick searching of data. Also, you can know, how to transfer this data to Excel.

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.

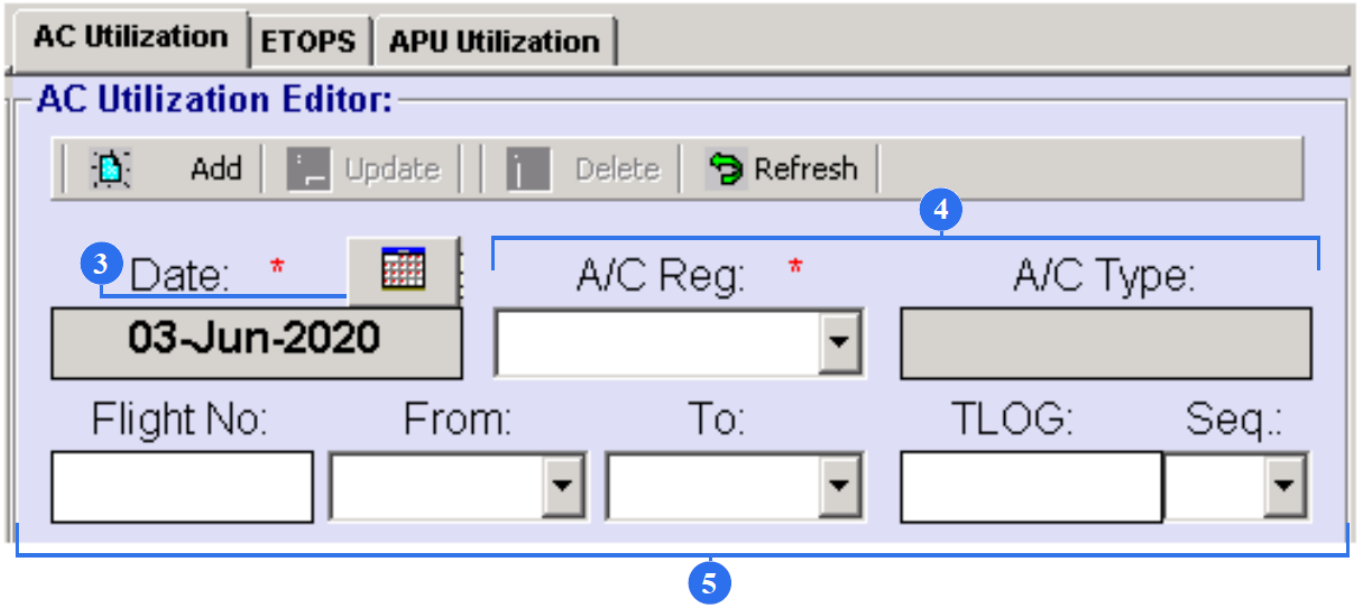
2. Aircraft Utilization

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.

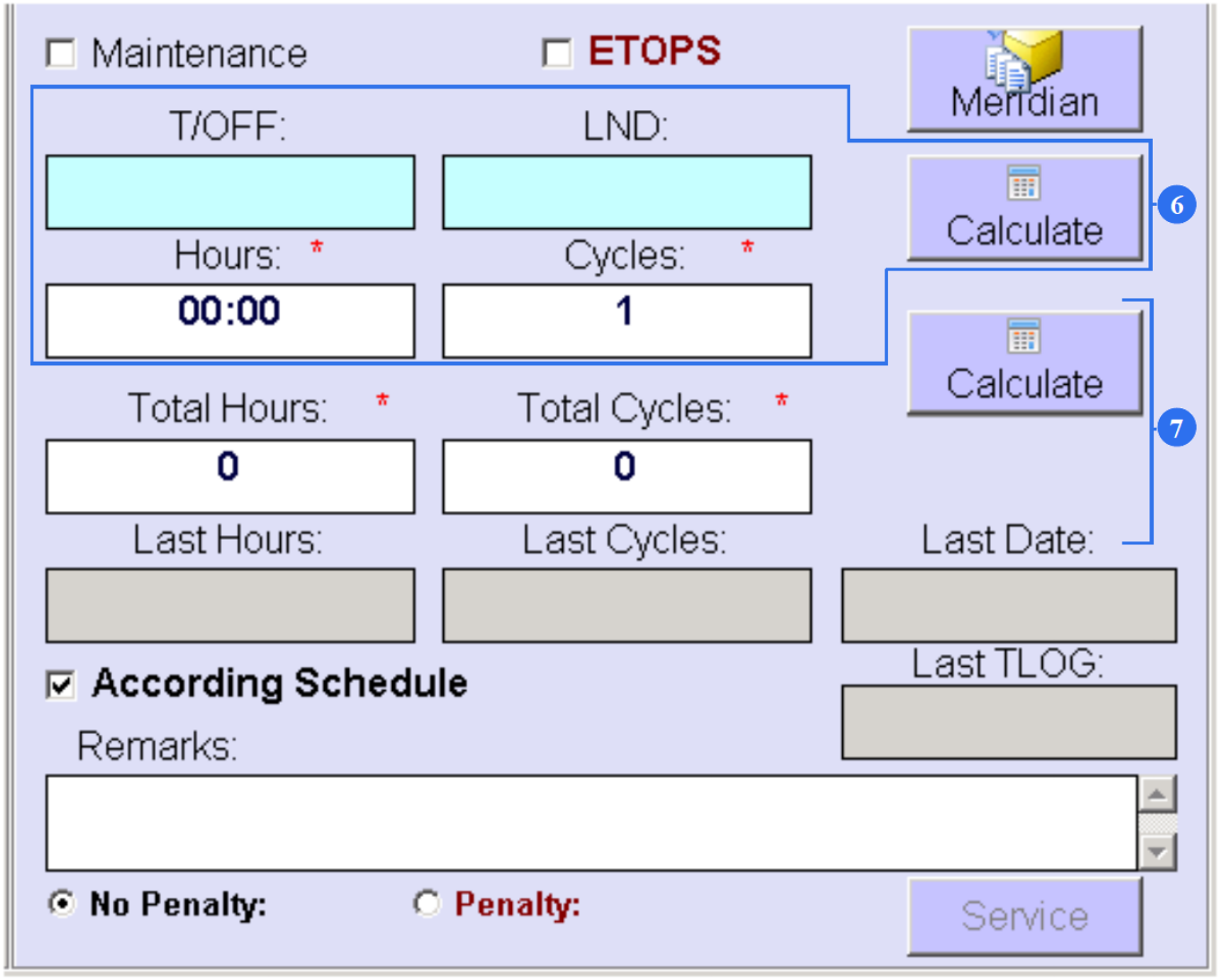
2. To open the AC Utilization Editor, click on the arrow button.



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.

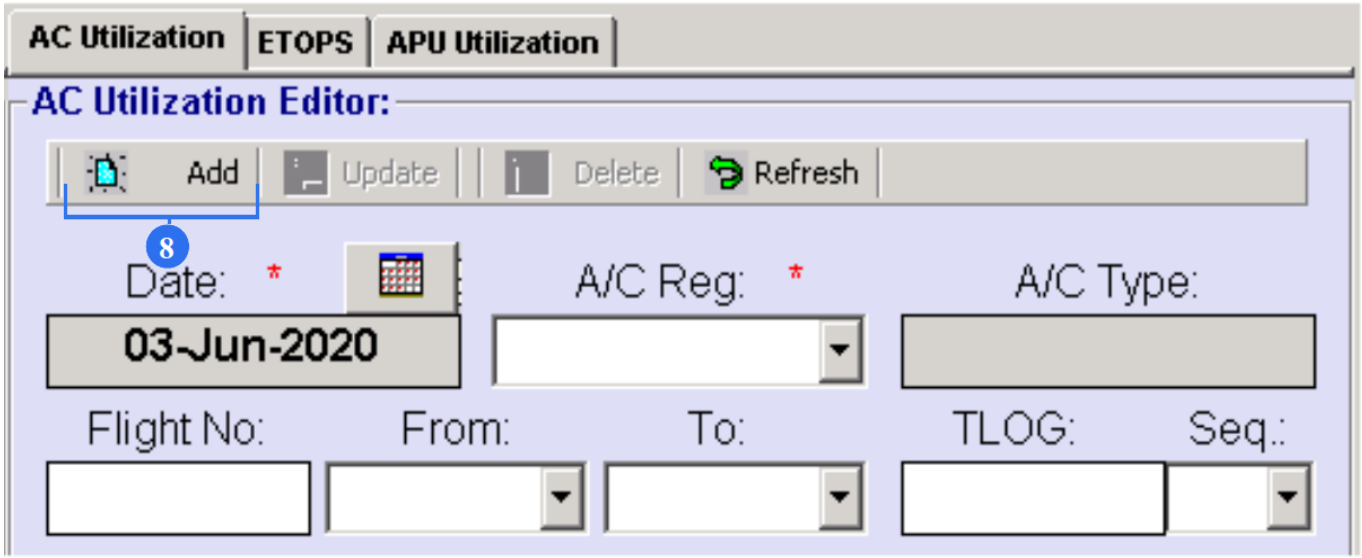
4. Select aircraft registration. Aircraft type will appear automatically.

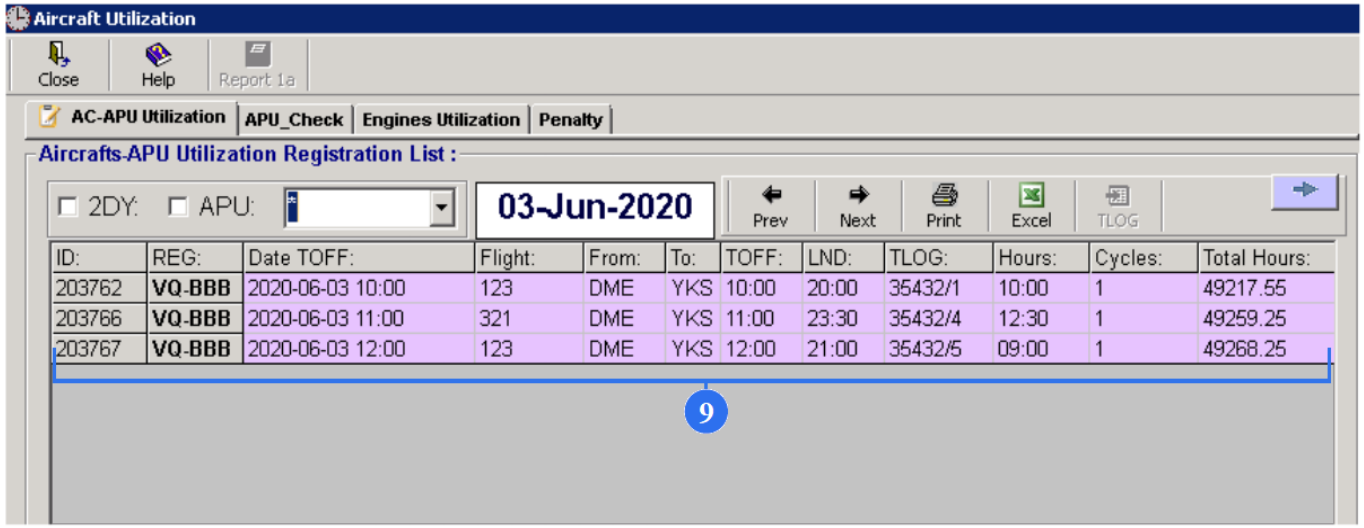
5. Write in Flight No/From/To fields



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.



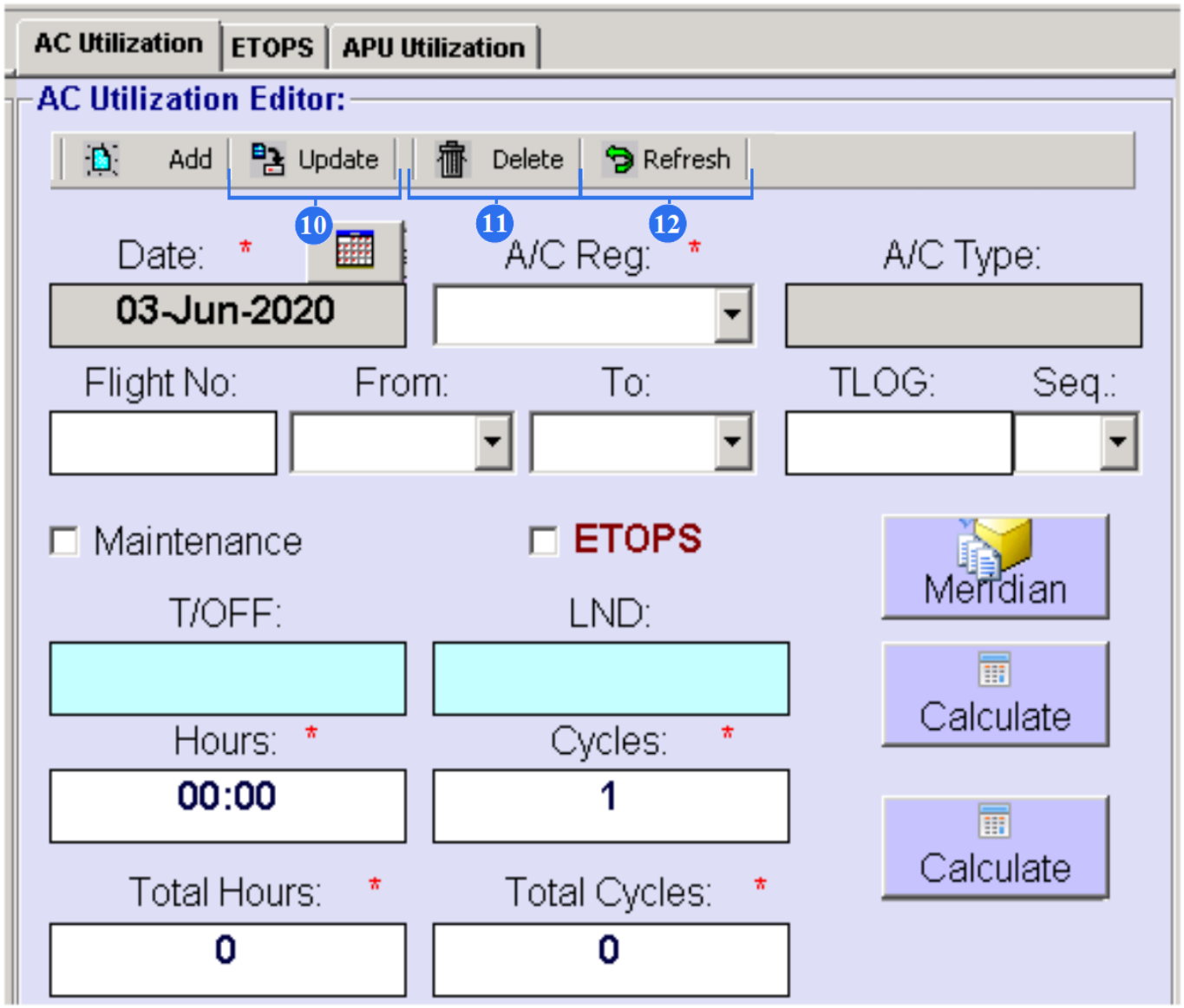


8. Click on the ADD button (at the top of the editor) to save data.

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'.

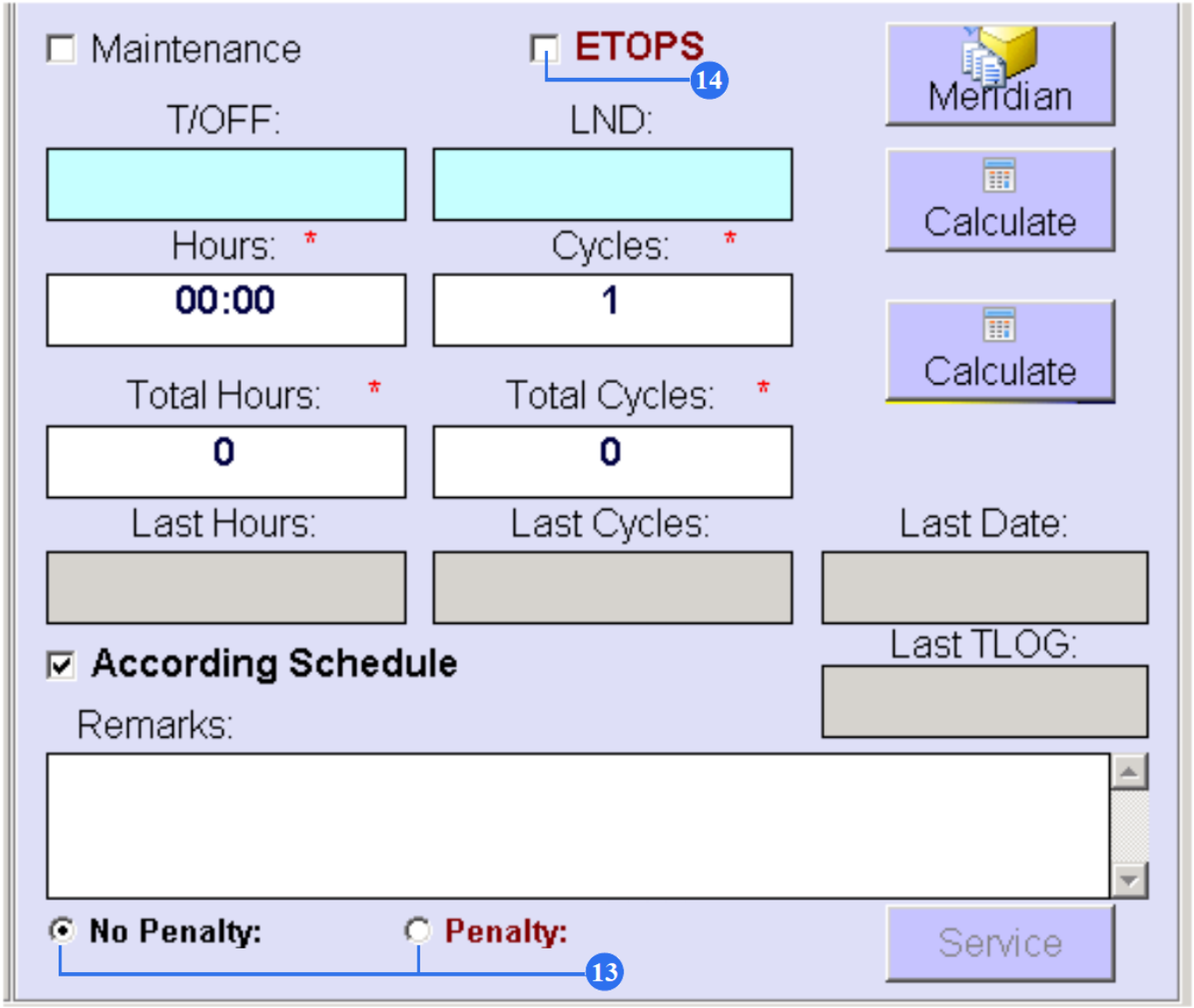
NOTE: In case of incorrectly entered value or missing records "Correction" button is used to recalculation new total hours value. More information you can see in the Correction chapter on the page 19.



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

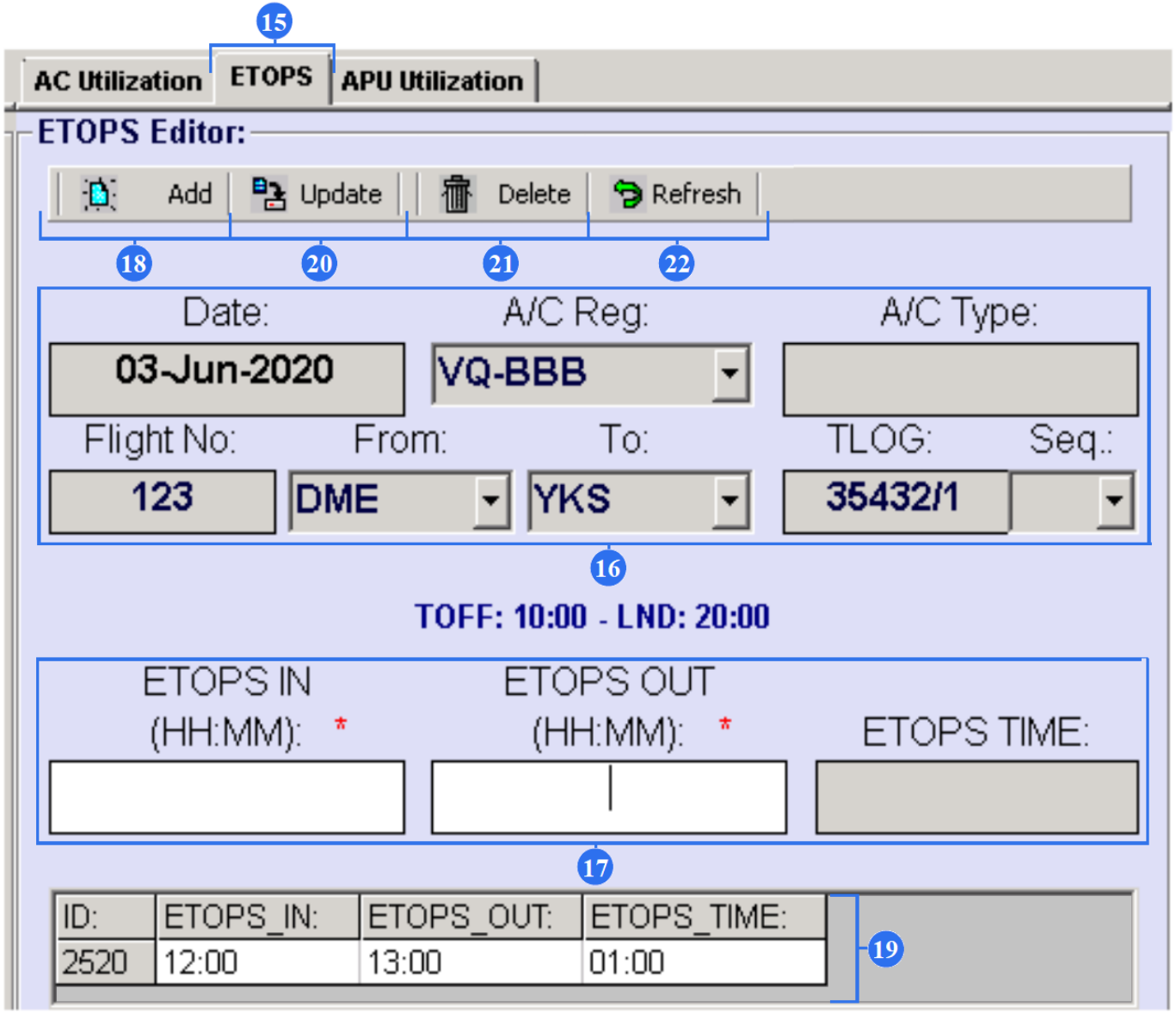
11. To remove flight data of the corresponding aircraft, highlight the line (view 9) and click on the DELETE button.

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



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. 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.

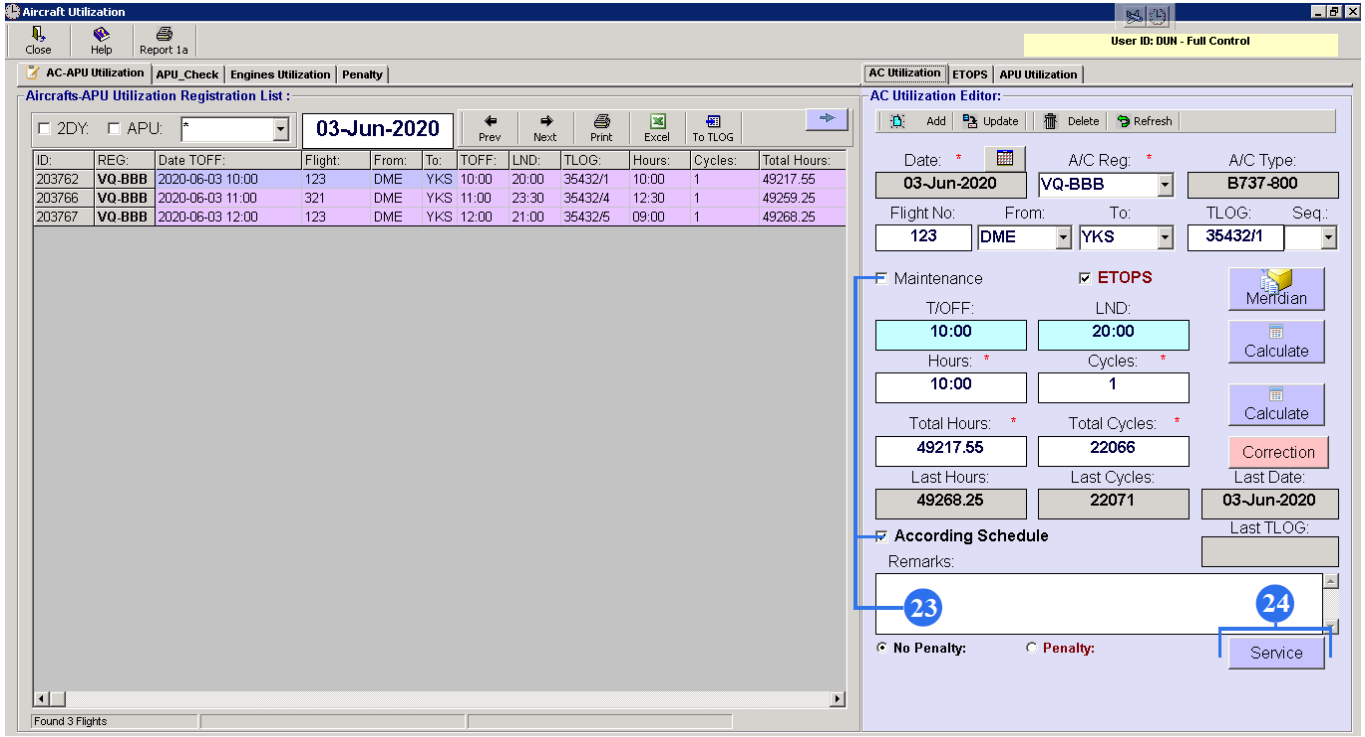
18. Click on the ADD button (at the top of the editor) to save data.

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.

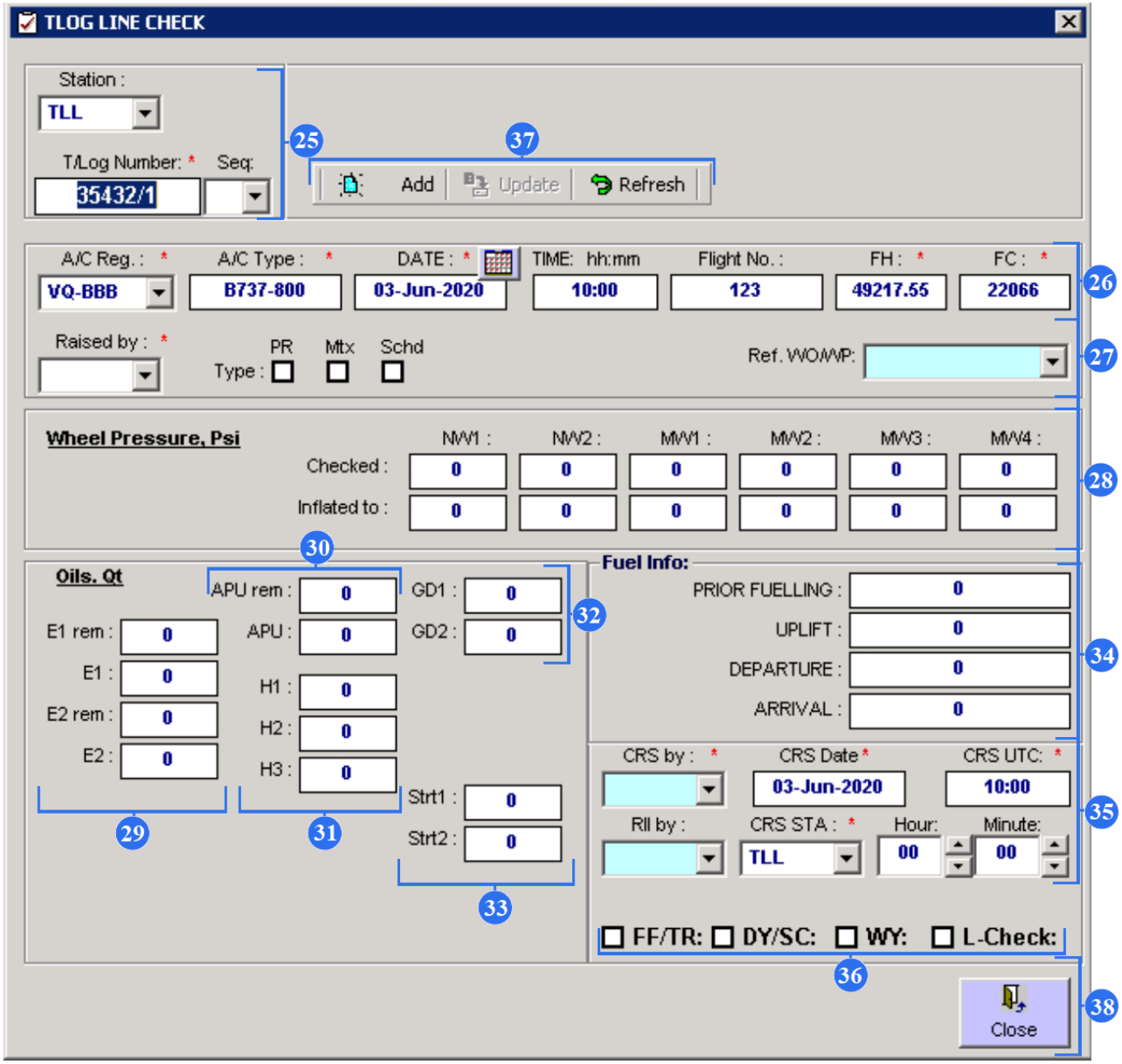
21. To remove ETOPS data, highlight the line (view 19) and click on the DELETE button.

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



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.



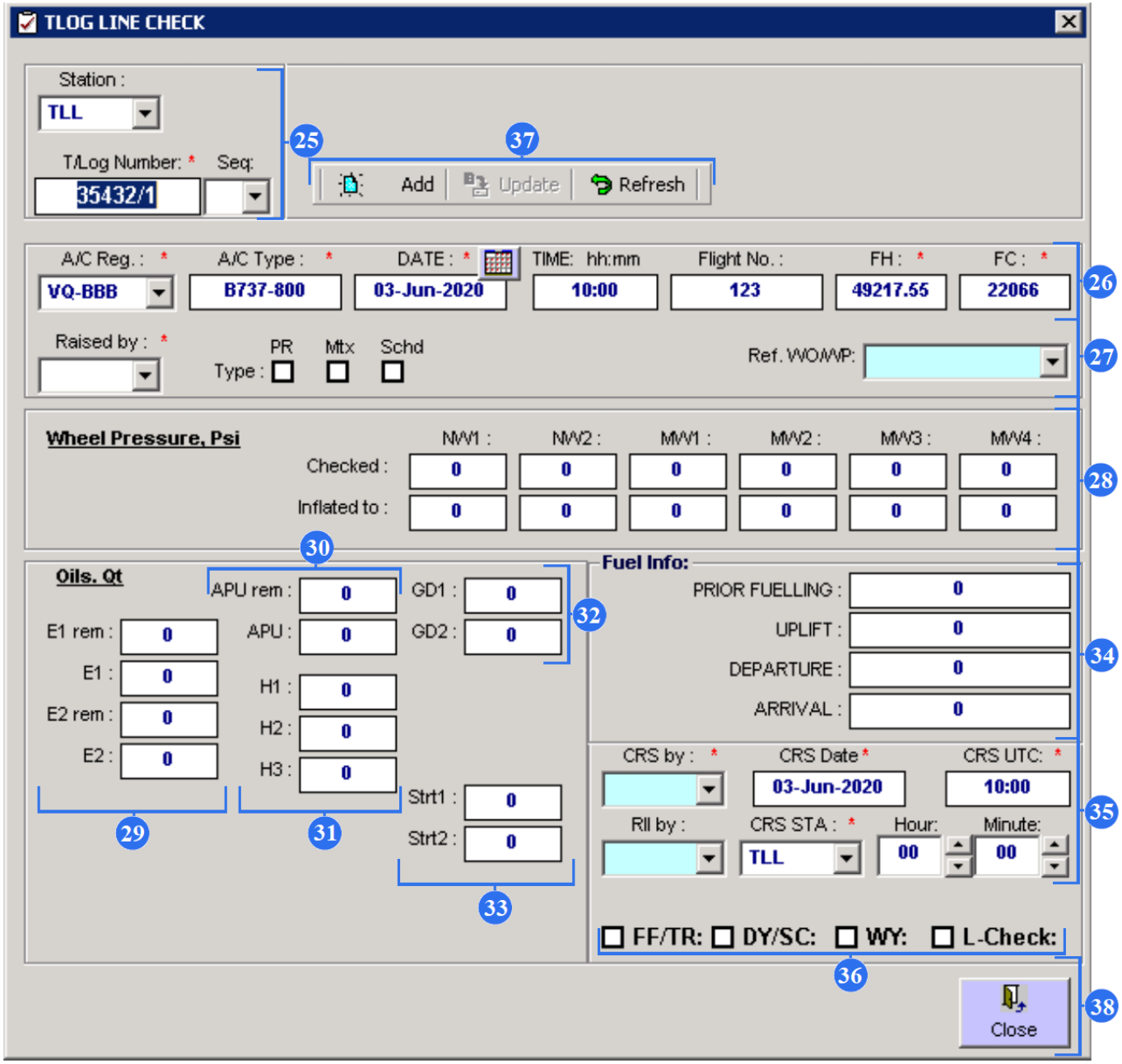
25. Station and T/Log Number will appear automatically.

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.



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

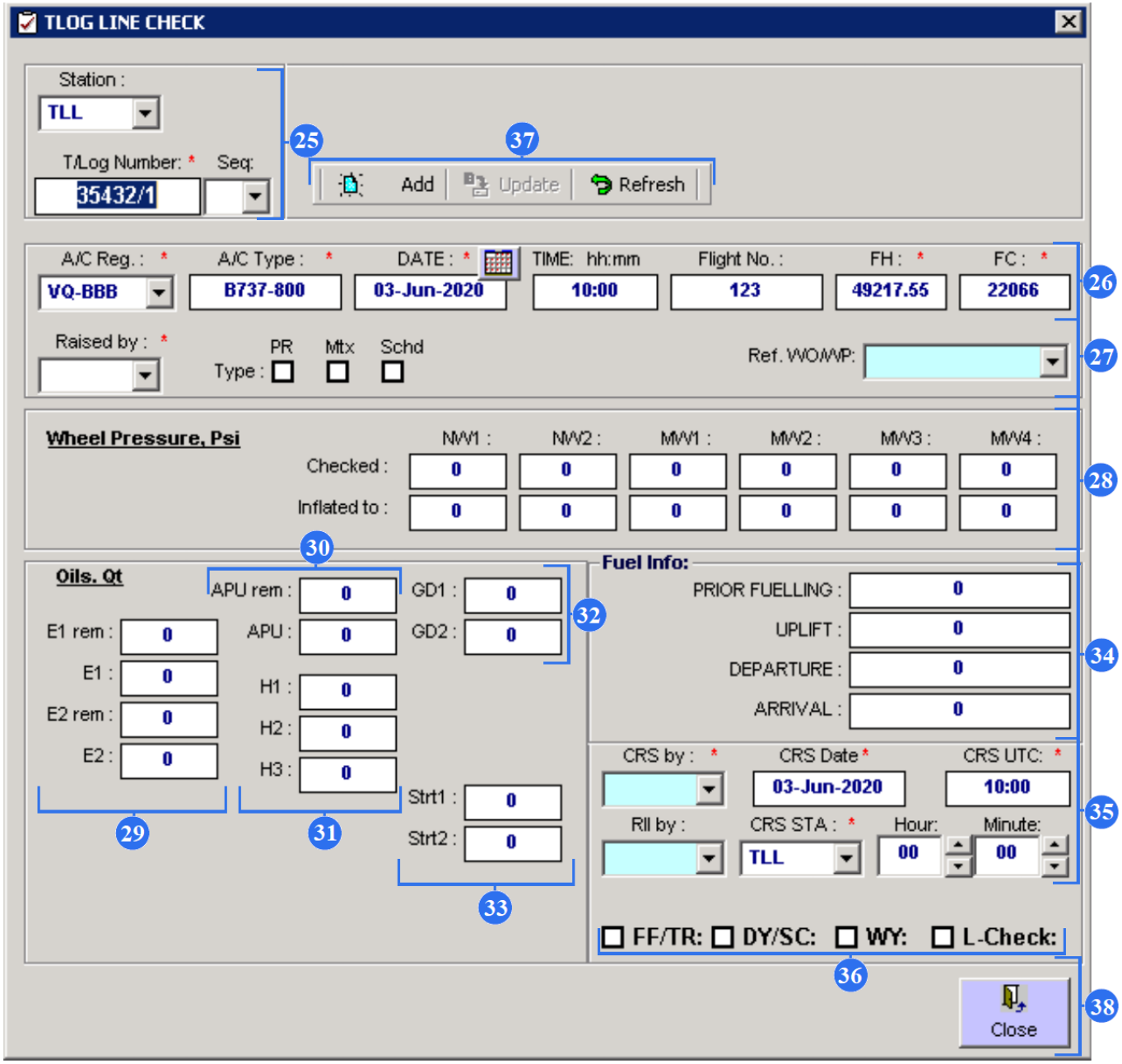
29. Enter result of engines oil servicing. For example, E1 rem means oil remain of the engine #1, but E1 means oil quantity after engine #1 after refill.

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.

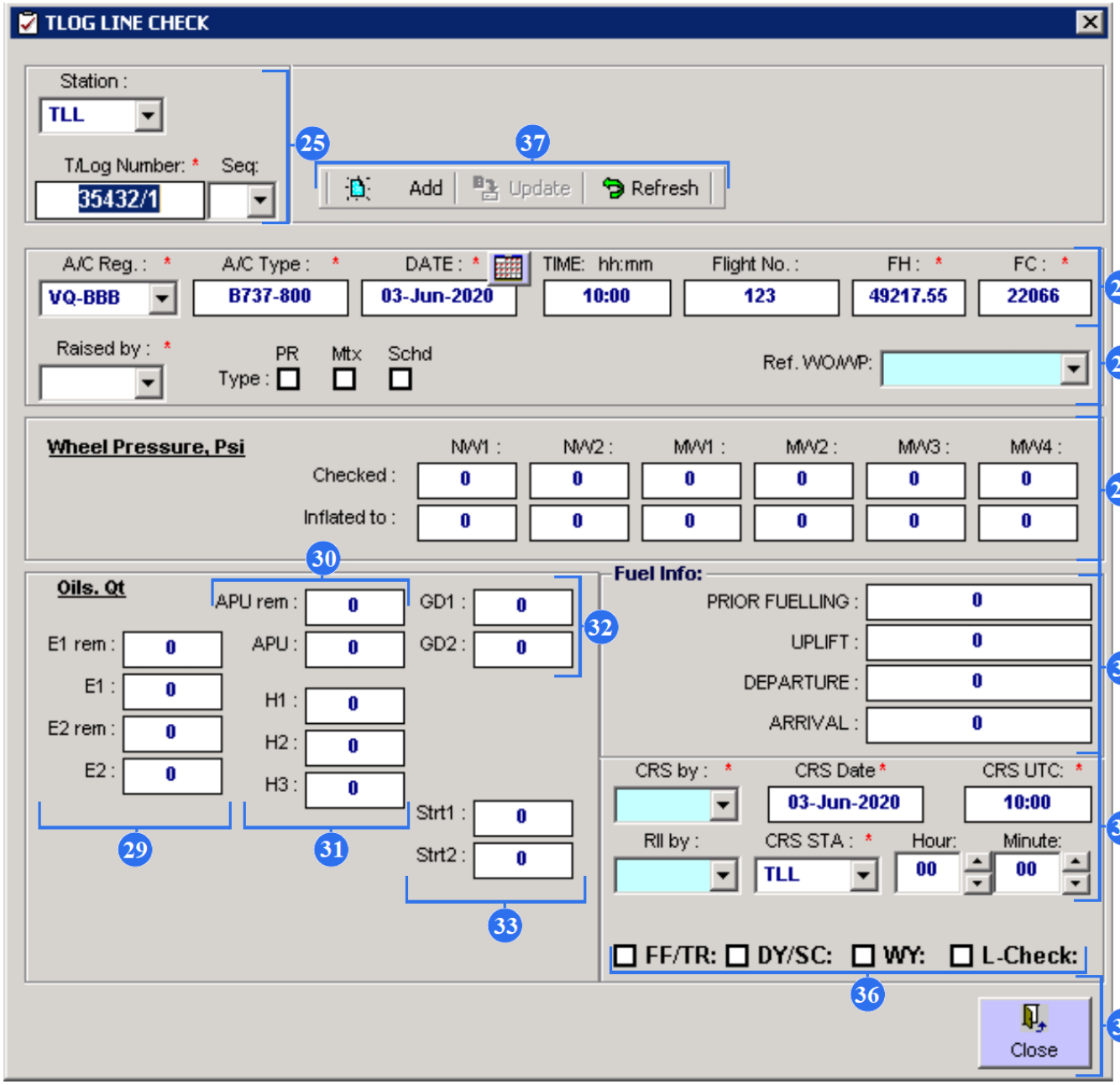
33. Enter result of starter oil servicing. For example, Strt1 means starter of engine #1.



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 “RII 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.



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

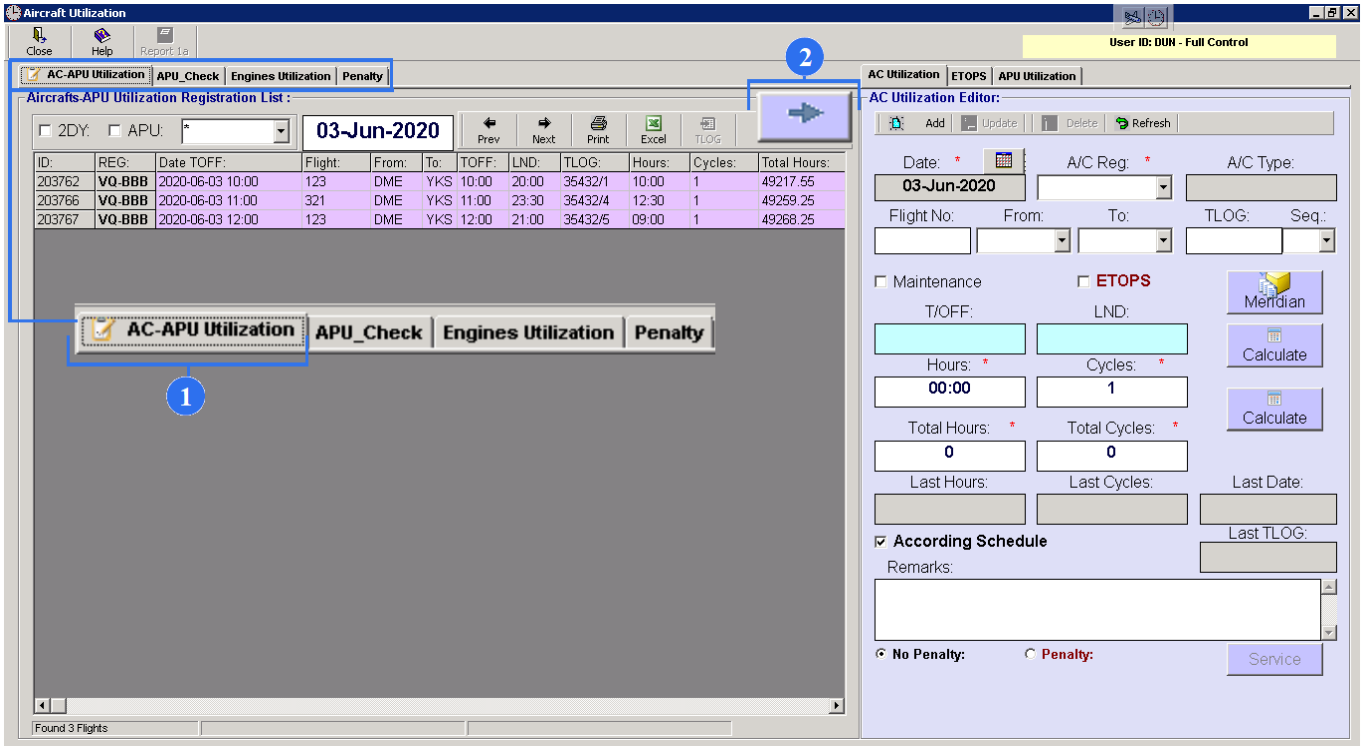
37. To save entered data push “Add” on the upper toolbar.

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

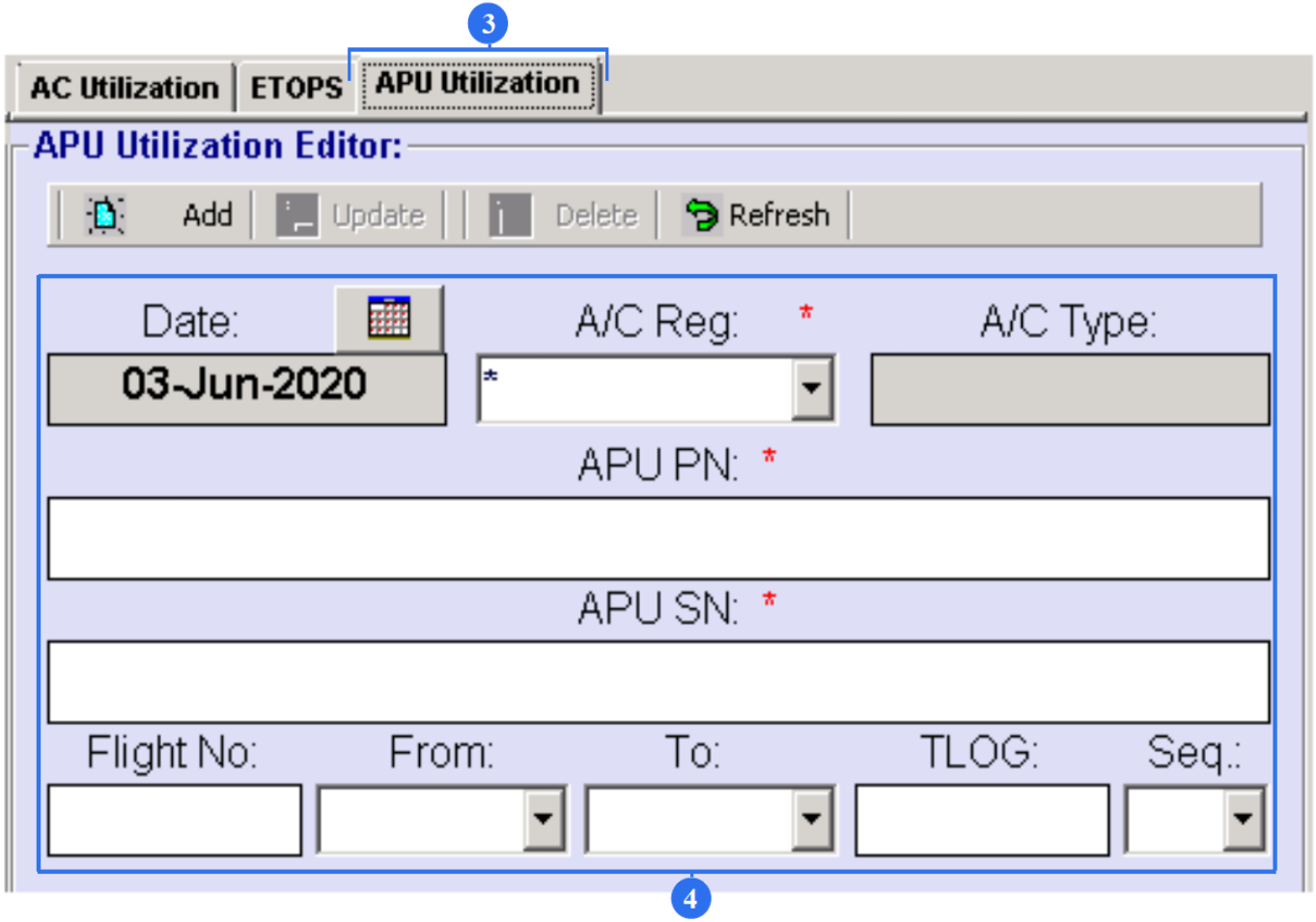
APU Utilization section explains how to register total APU hours and total APU cycles. Also, this section allows to print APU temperature.



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

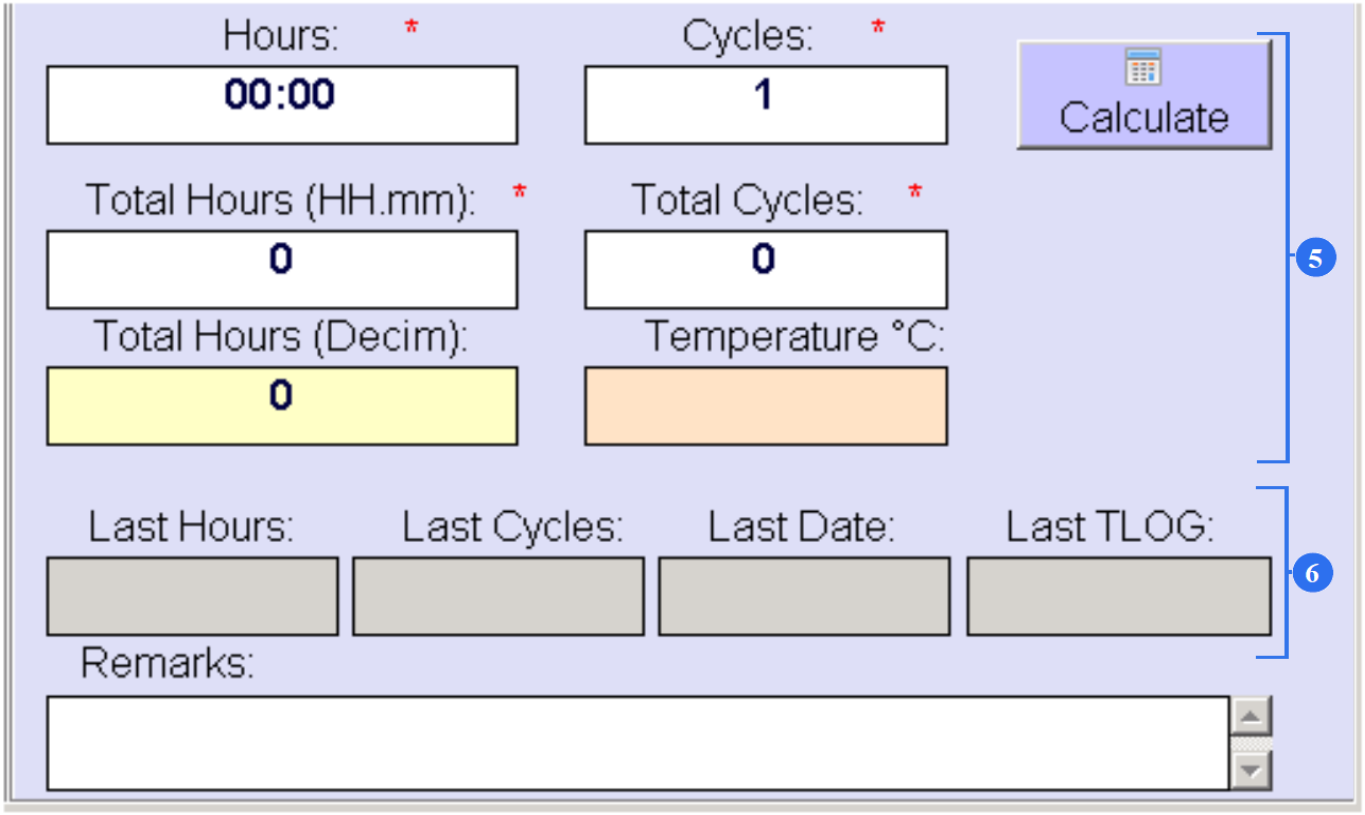
2. To open the APU Utilization Editor, click on the arrow button.

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



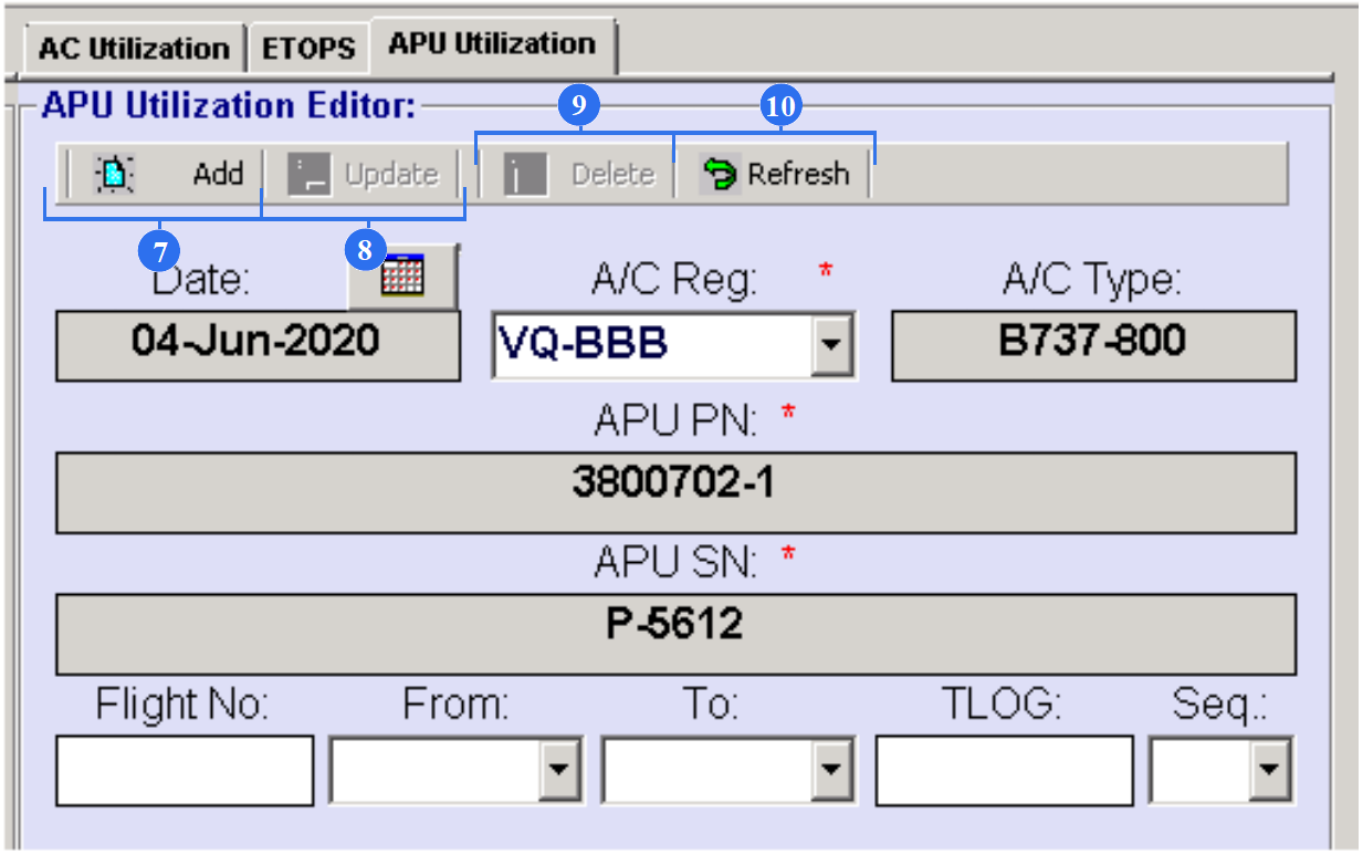
3. Select APU Utilization tab at the top of the editor.

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.



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.

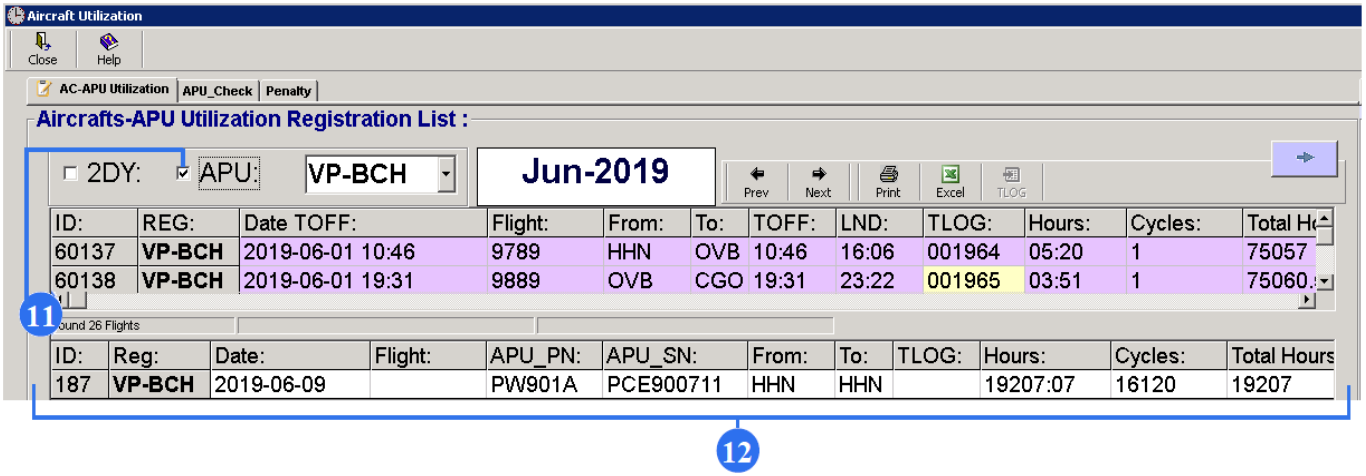


7. Click on the ADD button to save data.

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.

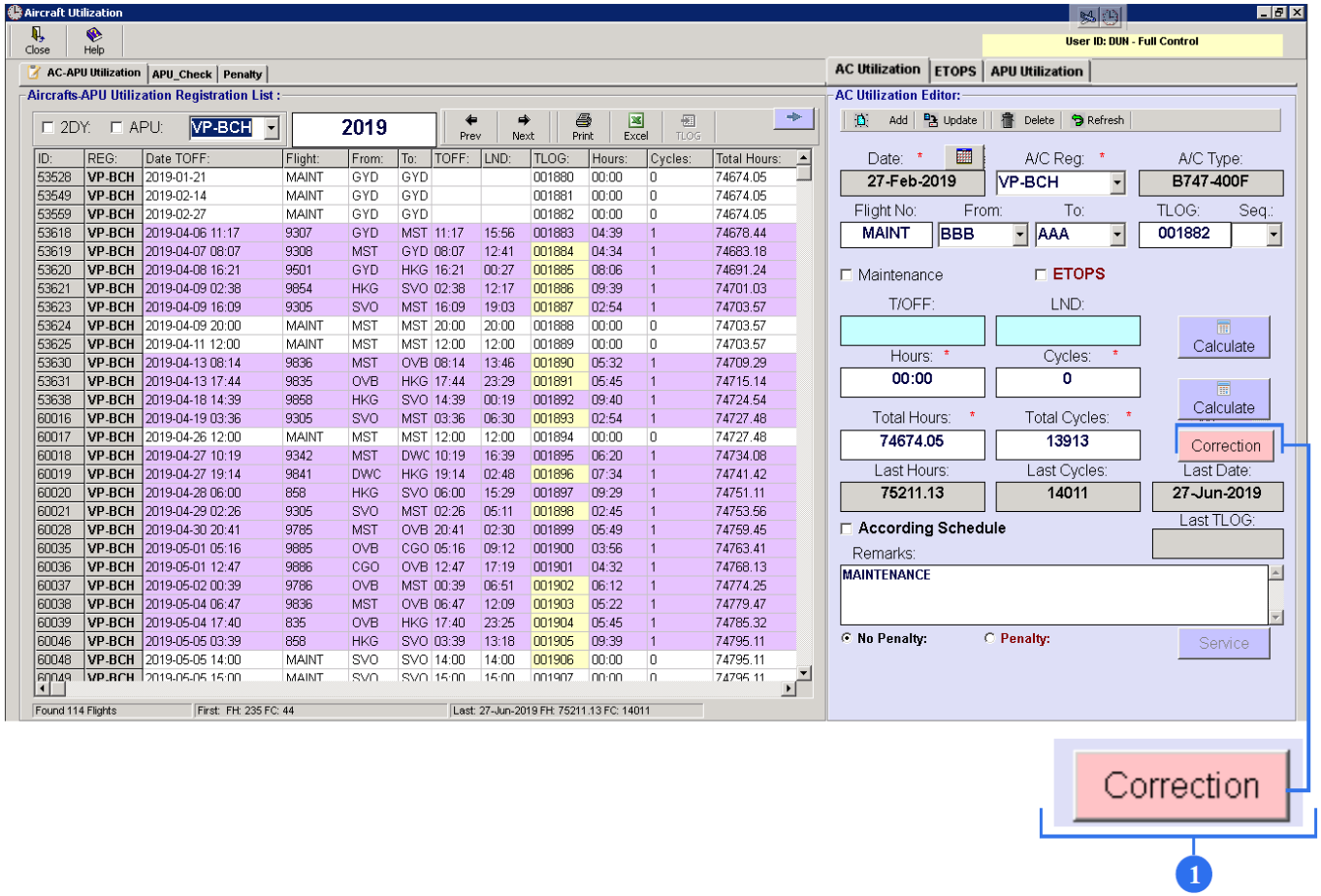


11. To see save APU data, it is necessary to tick APU field on the Aircrafts-APU Utilization Registration List.

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

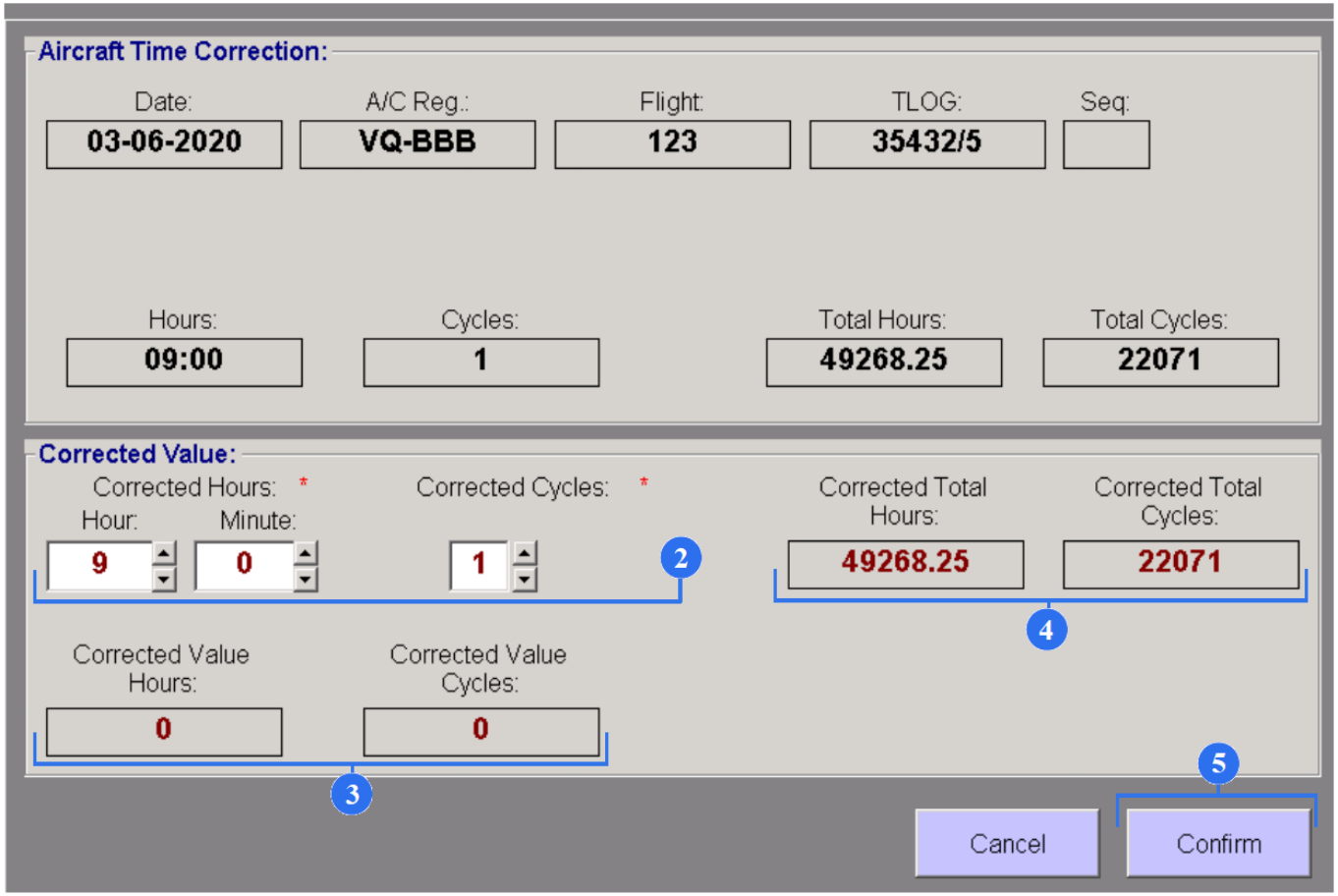
4. Correction

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.



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.



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.

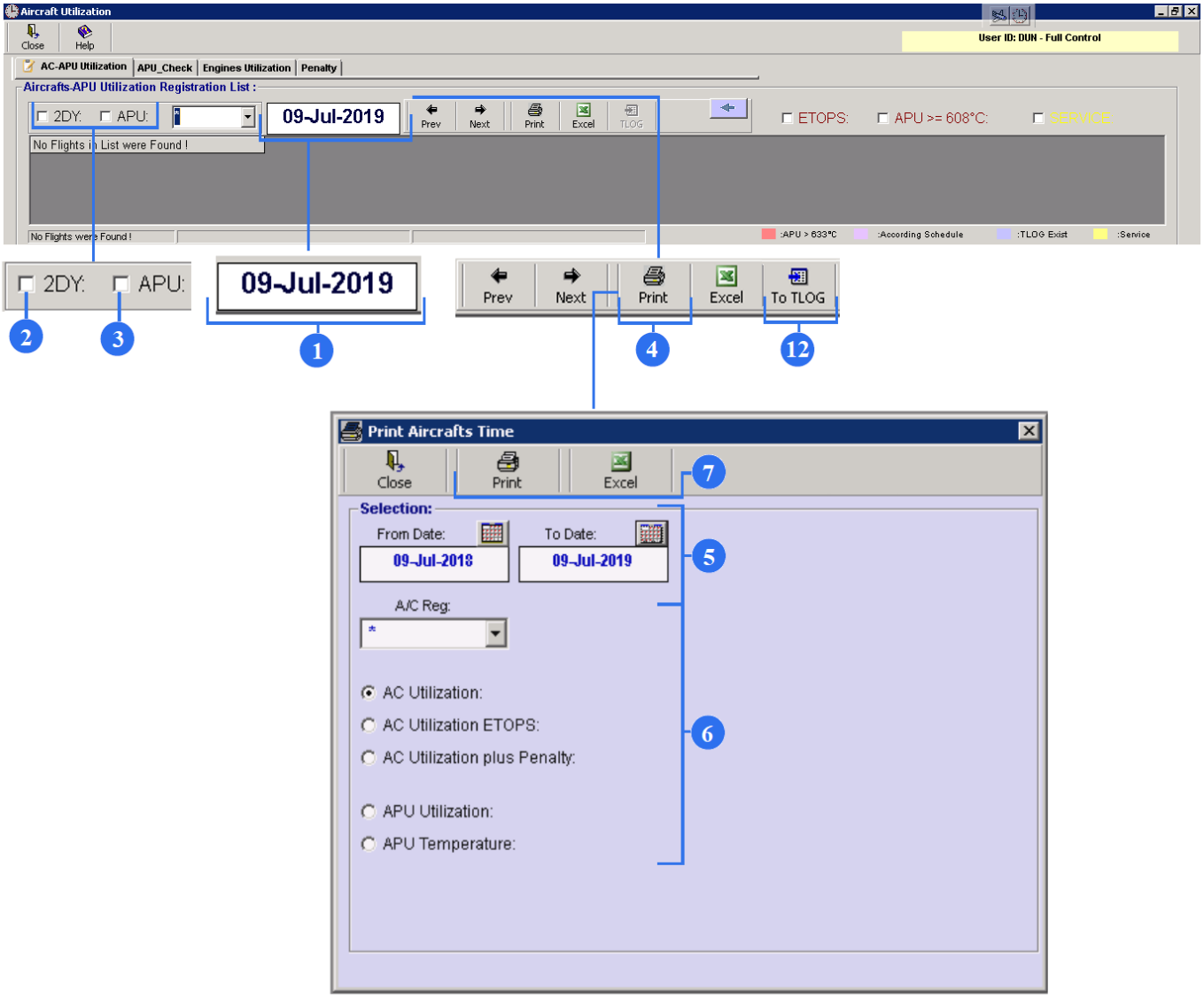
5. Push “Confirm” button to run recalculation of Total AC Utilization values from selected record to last record in sequence.

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



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.

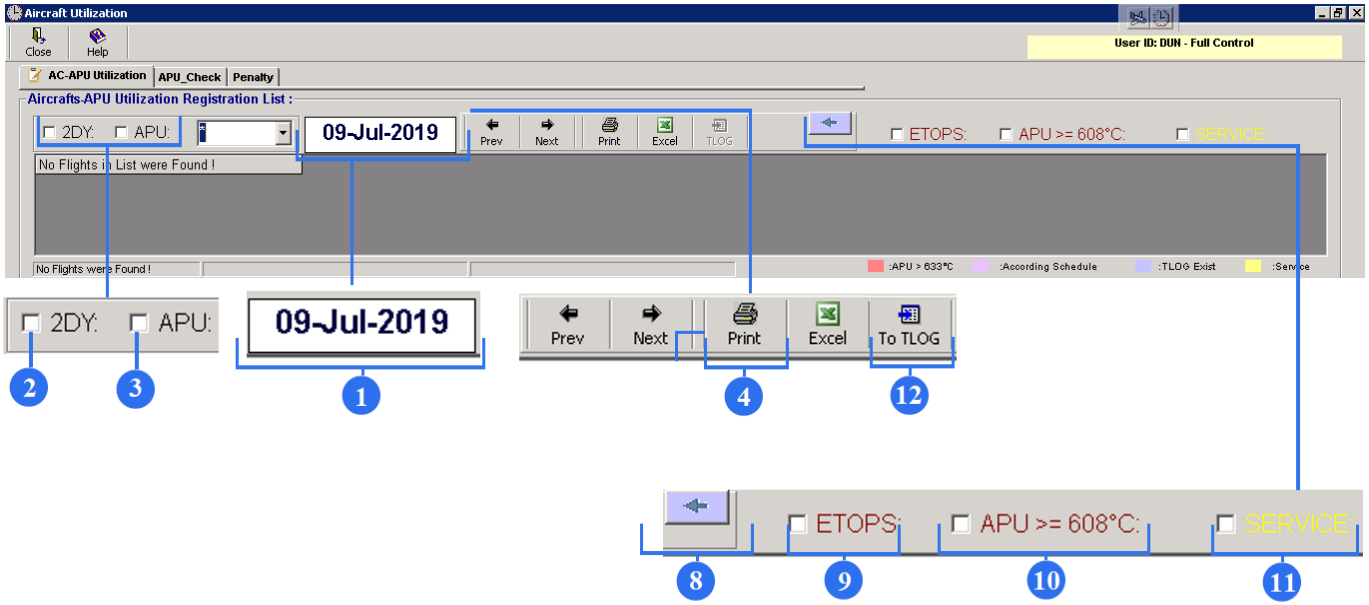
5. Select from date and to date.

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.



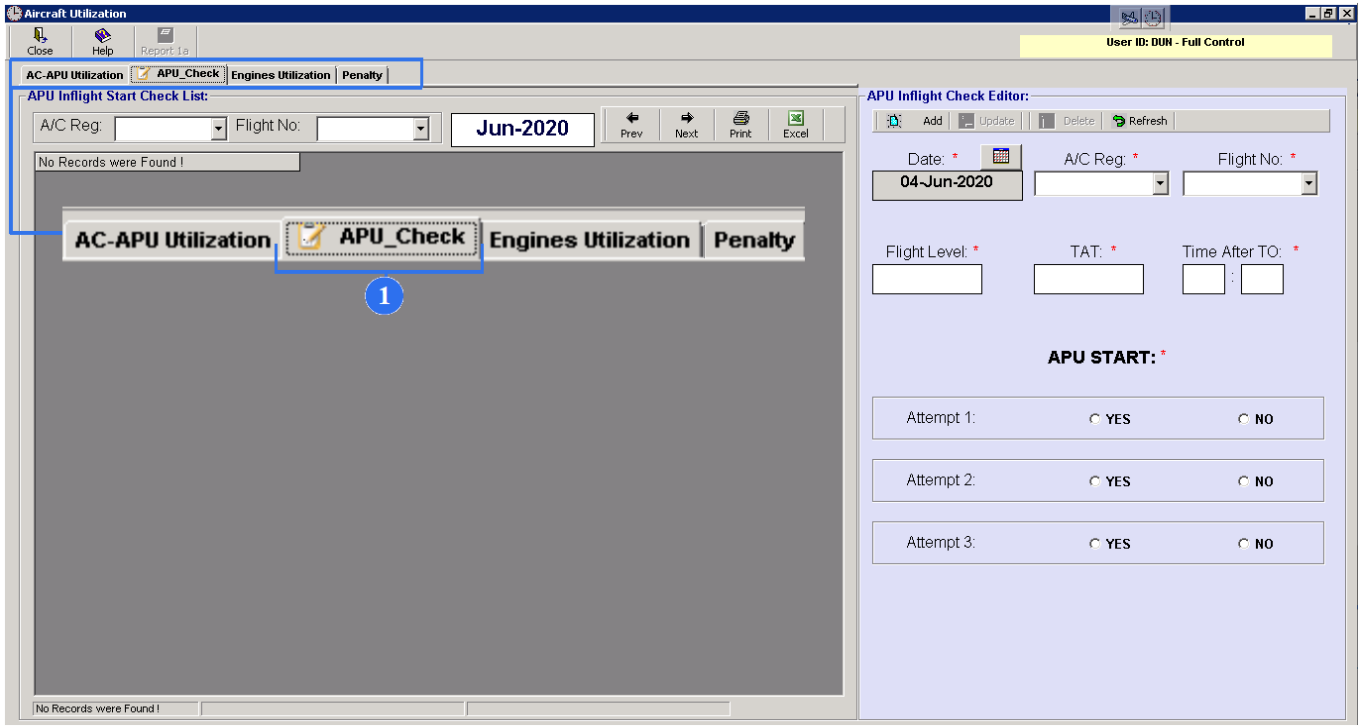
10. Tick the APU>=608^{0}C field to select from the whole list of the aircraft utilization only lines with APU editor data, where temperature is more than 608^{0}C.

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).

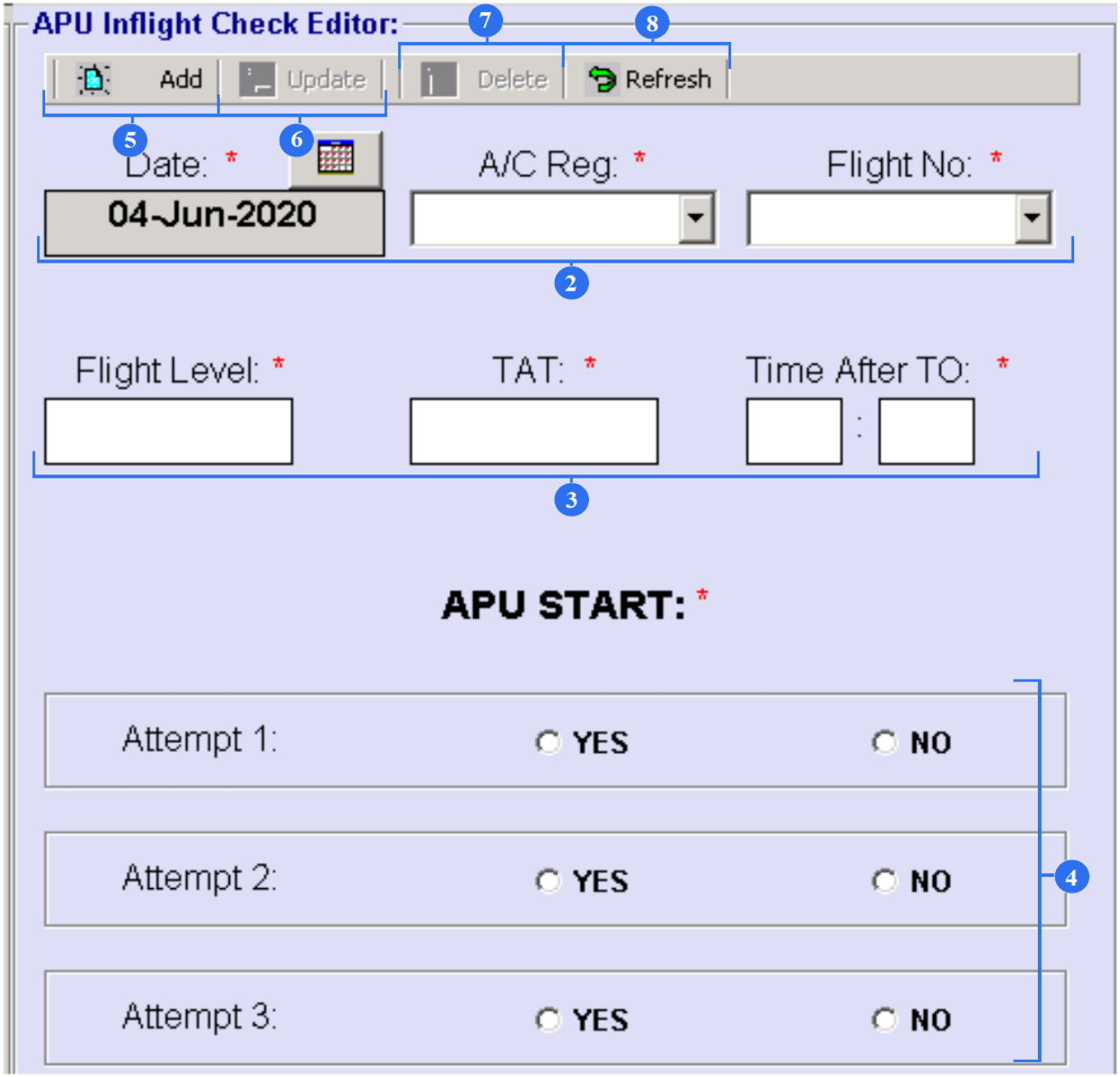
6. APU Check

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



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.



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.

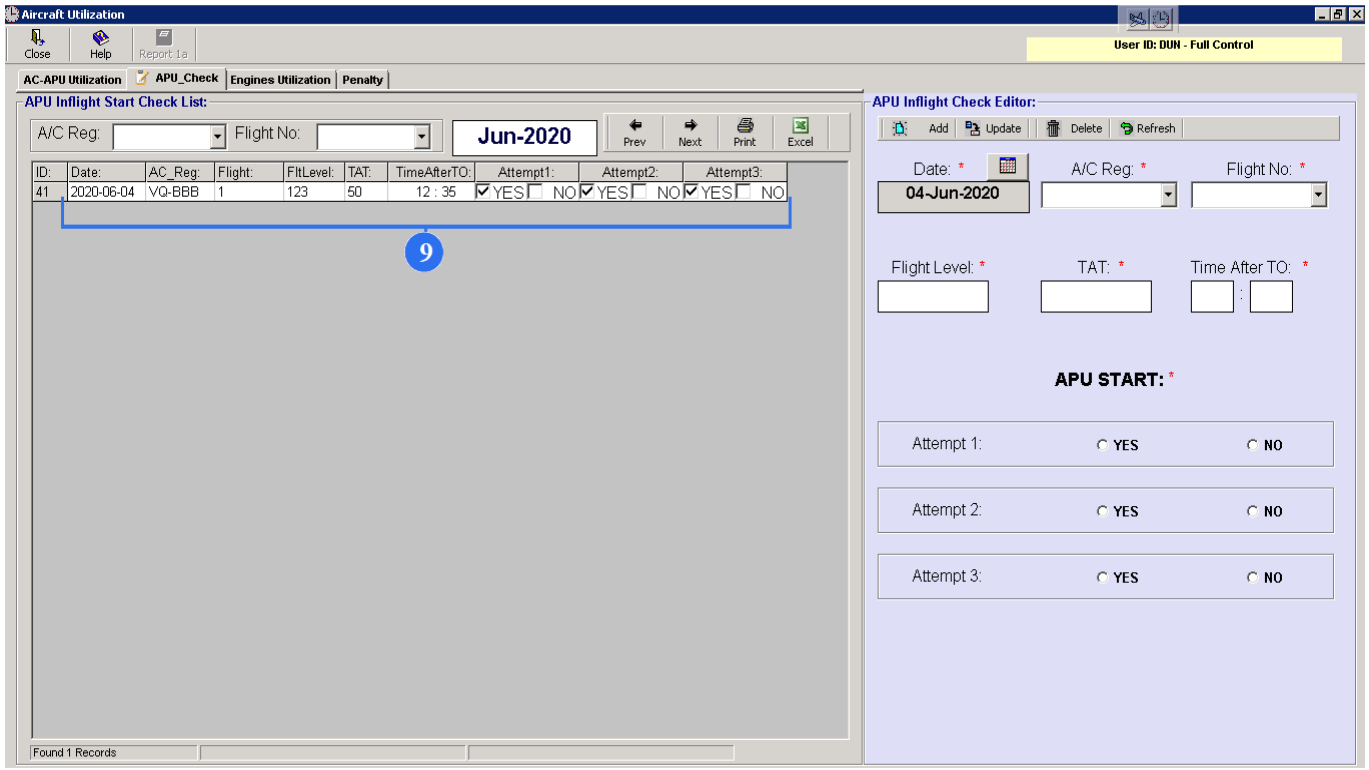
3. Write in Flight Level/TAT/Time After TO fields.
4. Tick Yes/No opposite each attempt.

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.

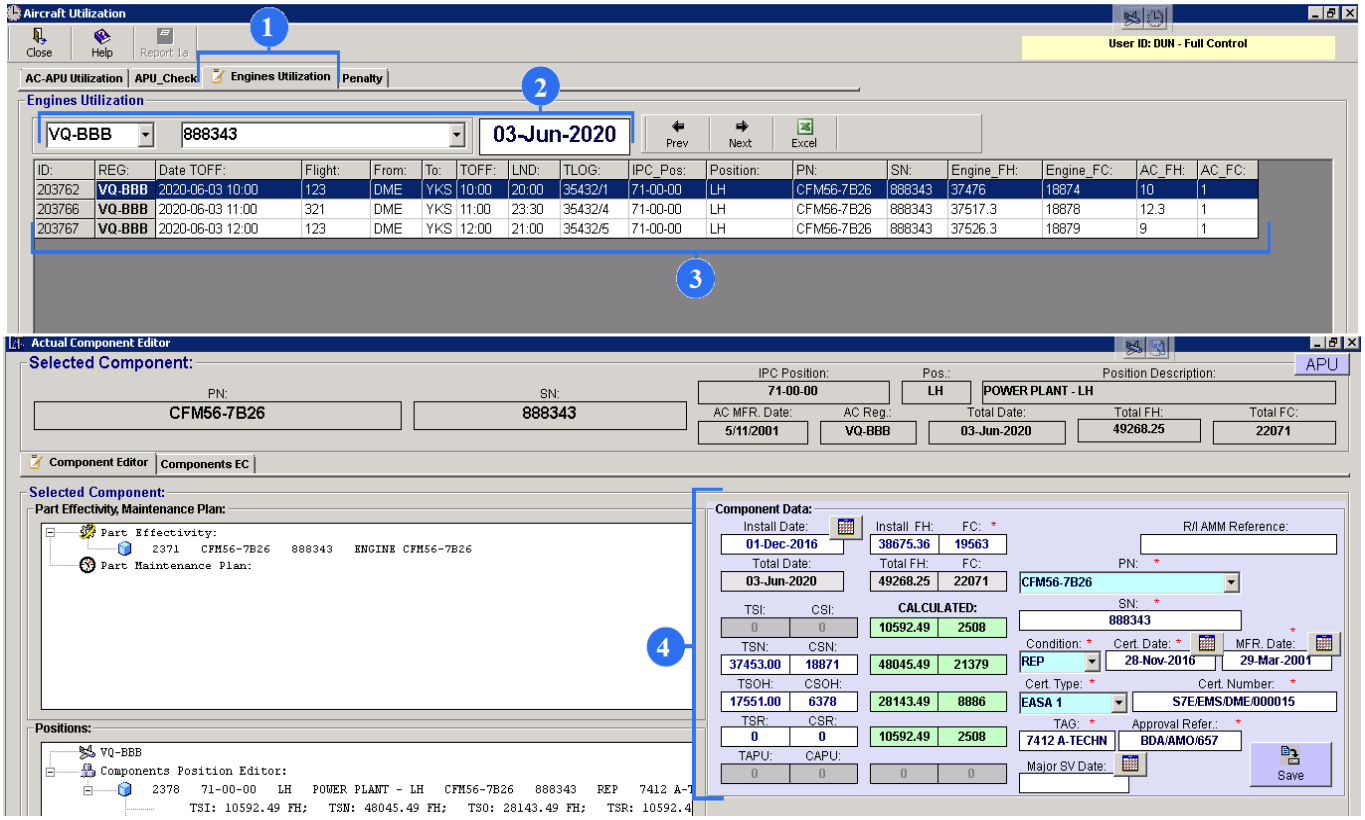
7. To remove APU inflight check data of the corresponding aircraft, highlight the line (view 9) and click on the DELETE button.

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



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

7. Engine Utilization



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

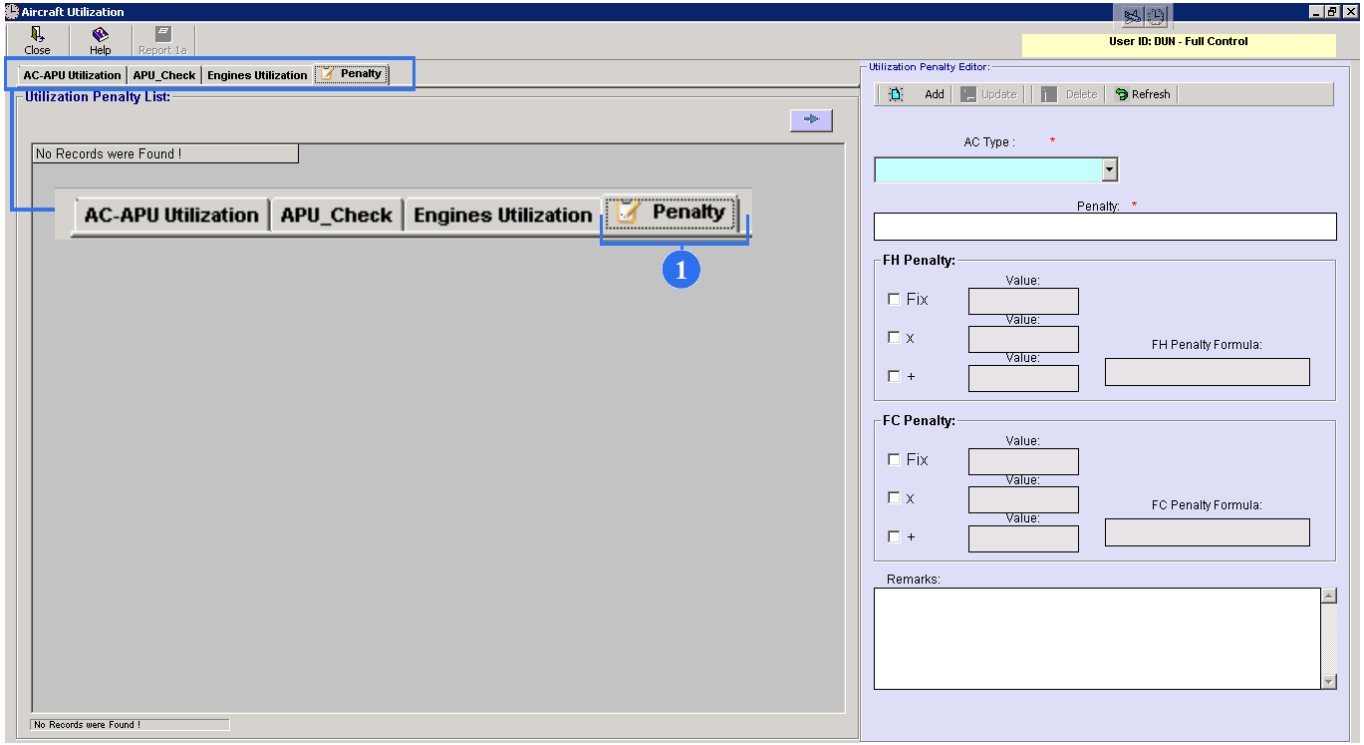
2. Select aircraft registration, serial number of engine and correct date.

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.

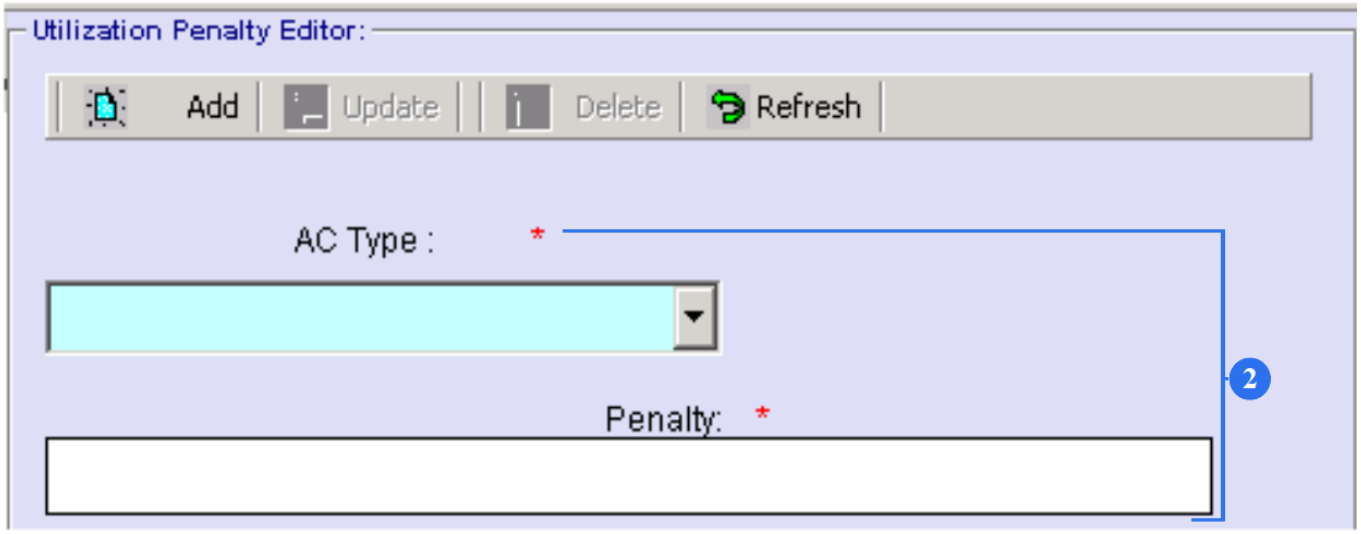
Penalty Registration section is necessary to register penalties that will be displayed in case of helicopter utilization registration or in case of any types of aircraft if there is special flight operation condition that affects the component resource.



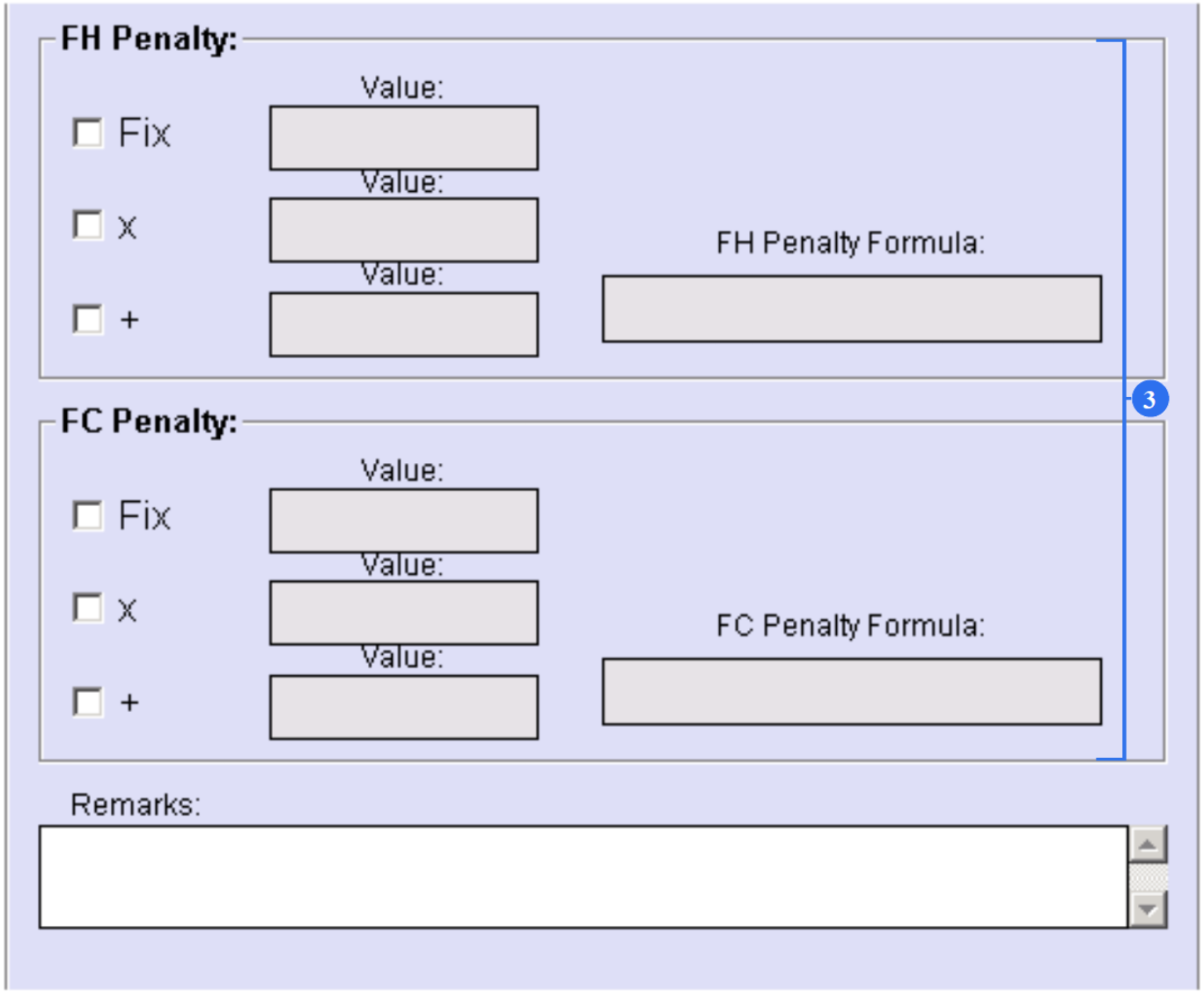
1. Click on the Penalty button to open Utilization Penalty List.

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

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

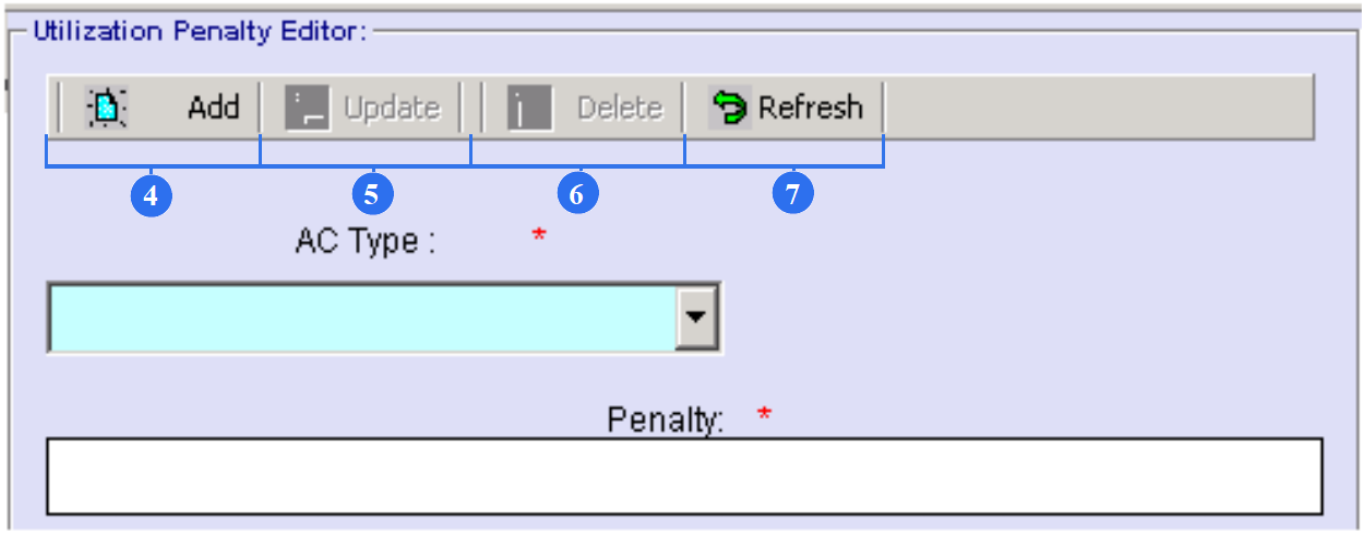


2. Select aircraft type and fill Penalty field by flight condition (for example- 27 nots wind).



3. All Penalties (Flight Hours/Cycles) can be:
   - Fixed – “Fix”
   - Multiplied – “X”
   - Added – “+”

Type the value for 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.