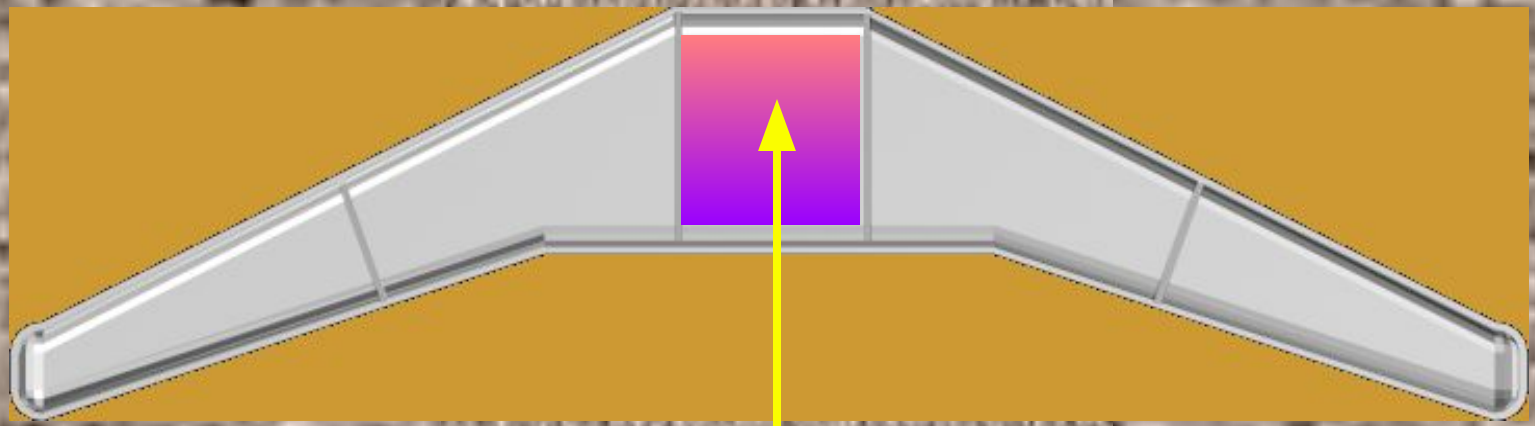
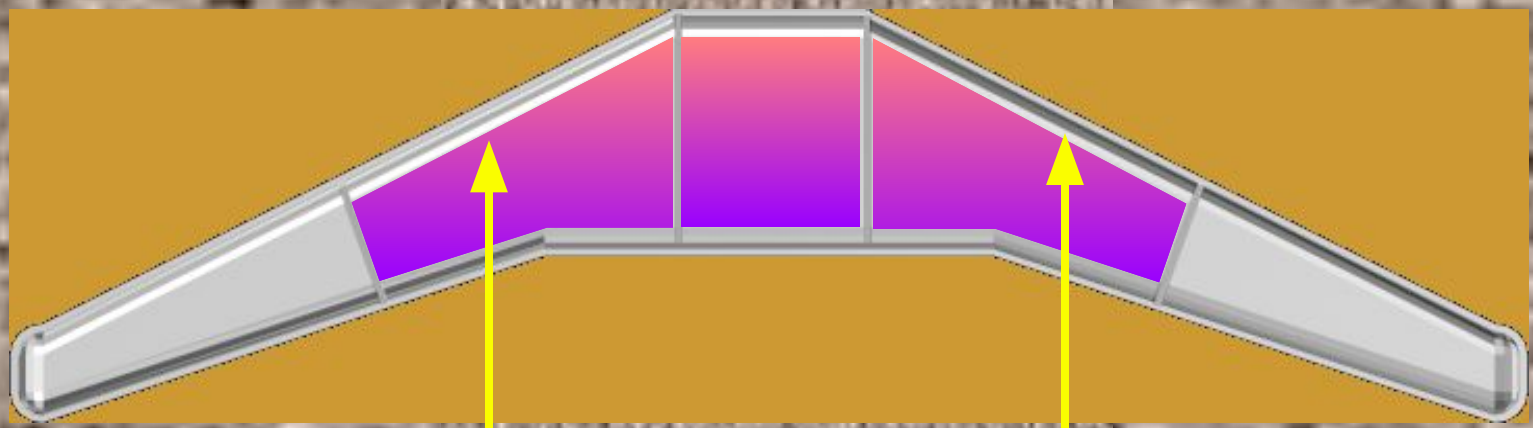

# FUEL SYSTEM PRESENTATION

The A320 fuel system is very much like a conventional jet aircraft fuel system.

It has fuel tanks located in the center fuselage area and the wings.



CENTER TANK

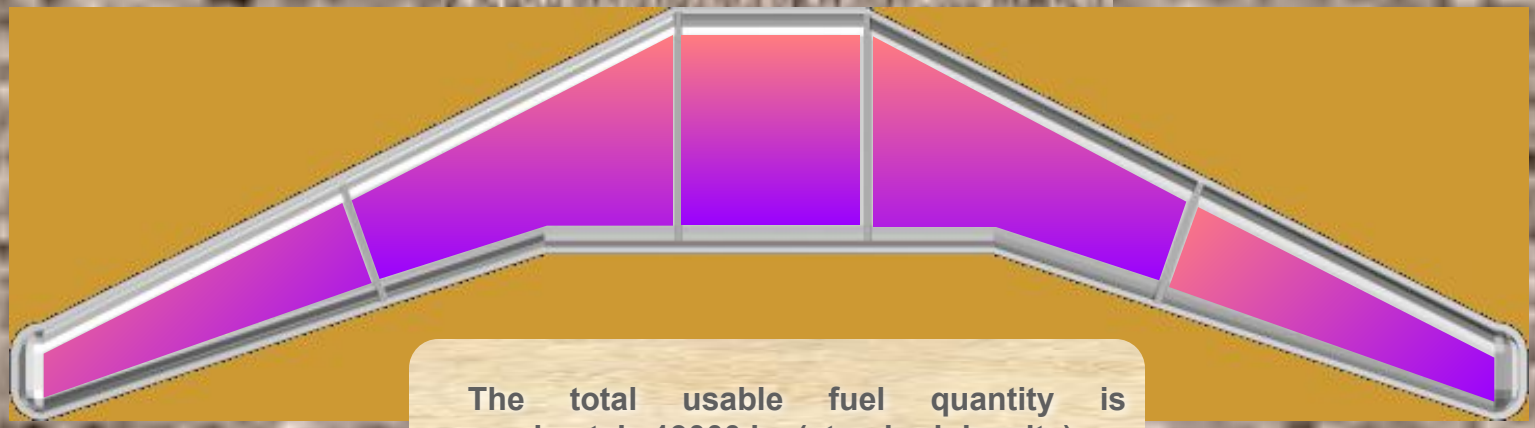



LEFT INNER TANK
CENTER TANK
RIGHT INNER TANK

The center tank is located in the fuselage.

The inner tanks are located in the wings.

and the outer tanks are located in the wings.



The total usable fuel quantity is approximately 19000 kg (standard density).

19000 kg

FUEL PUMPS


LEFT OUTER
TANK


LEFT INNER
TANK

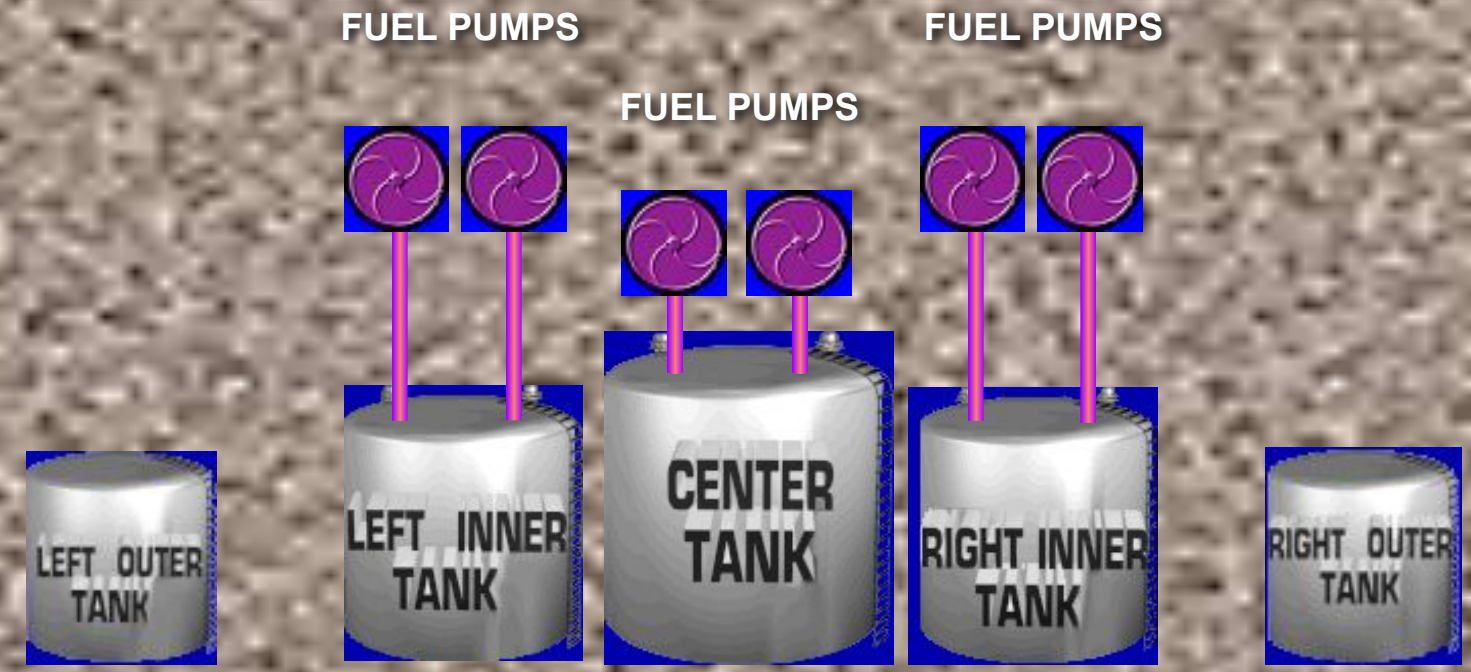

CENTER
TANK


RIGHT INNER
TANK

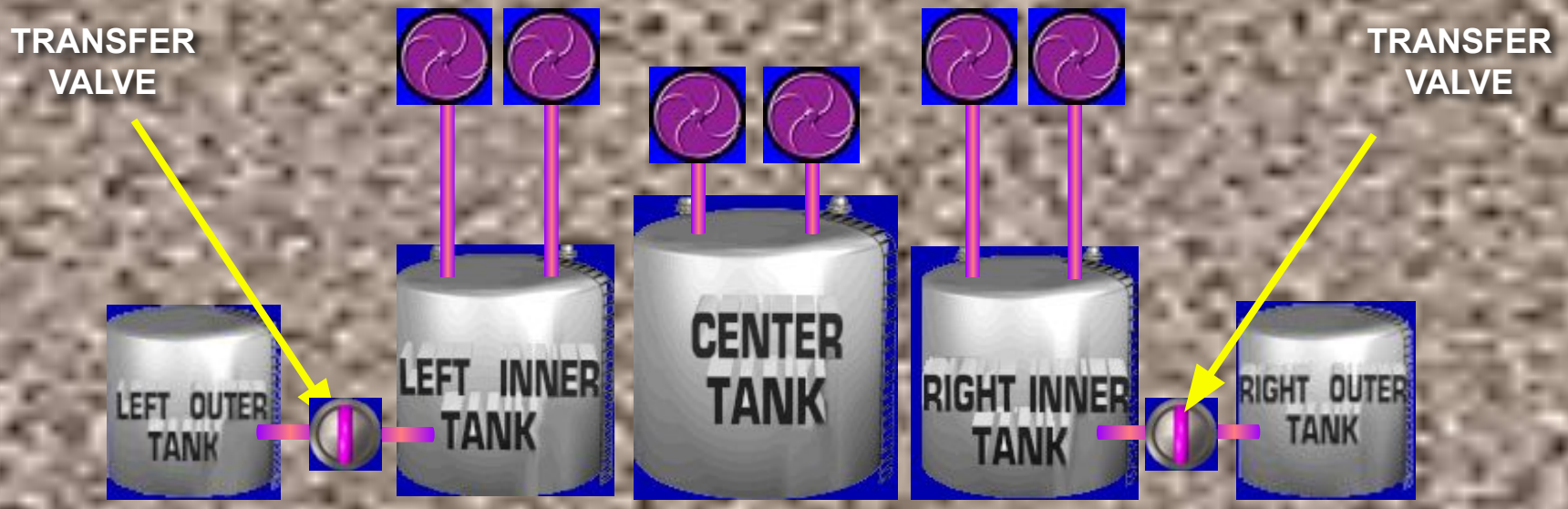

RIGHT OUTER
TANK

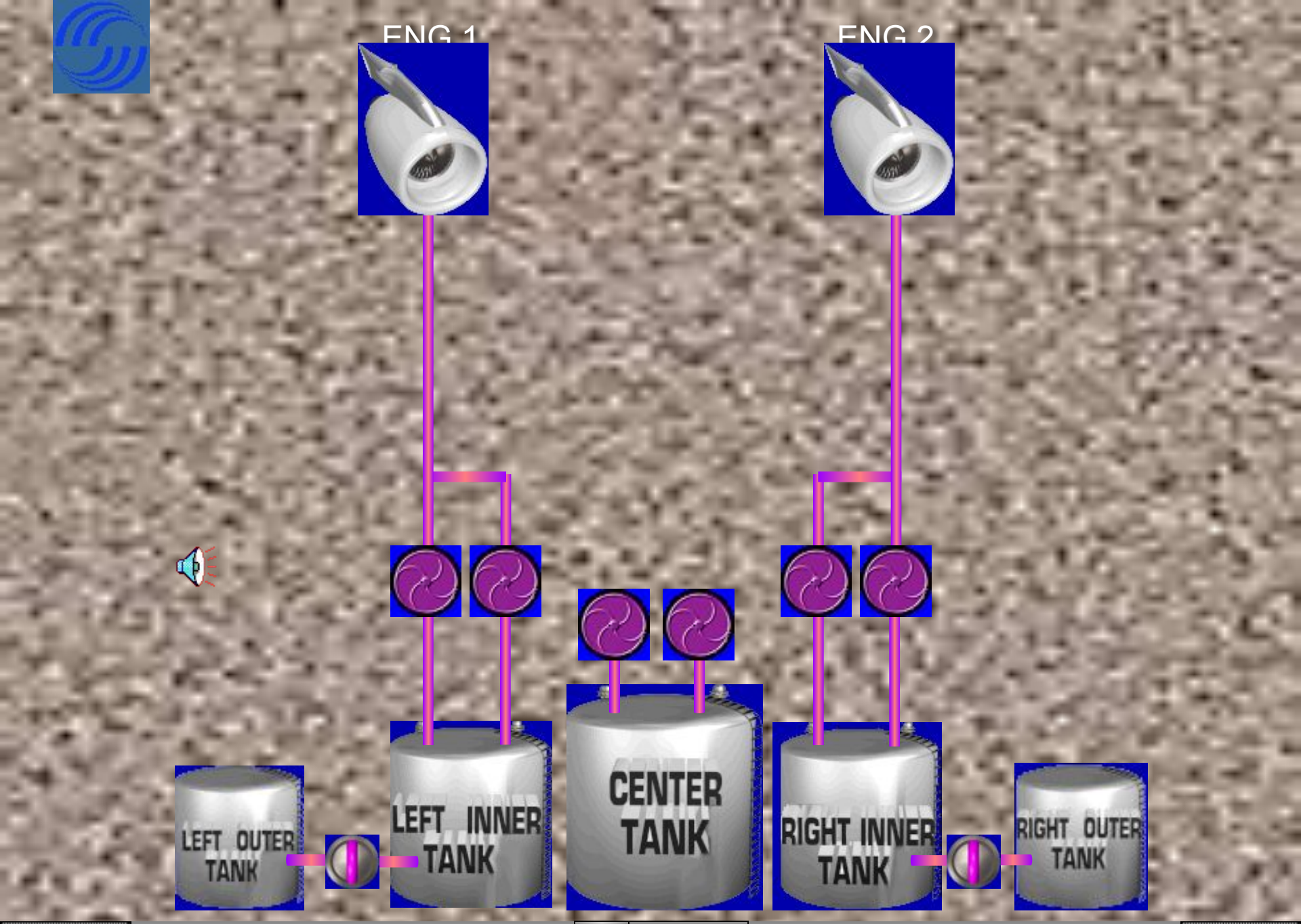
Two fuel pumps are installed in the center tank.

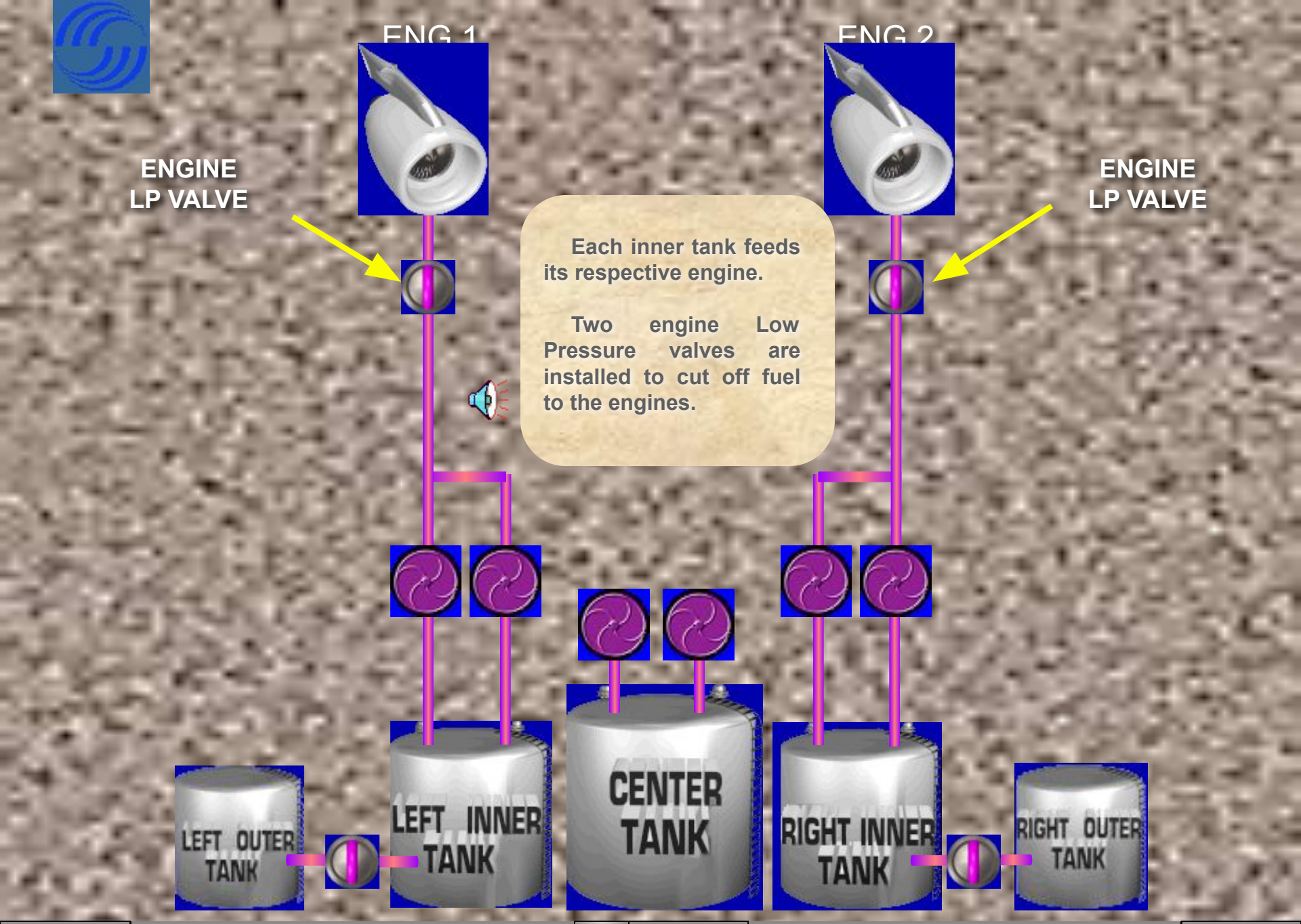
And two fuel pumps are installed in each inner tank.

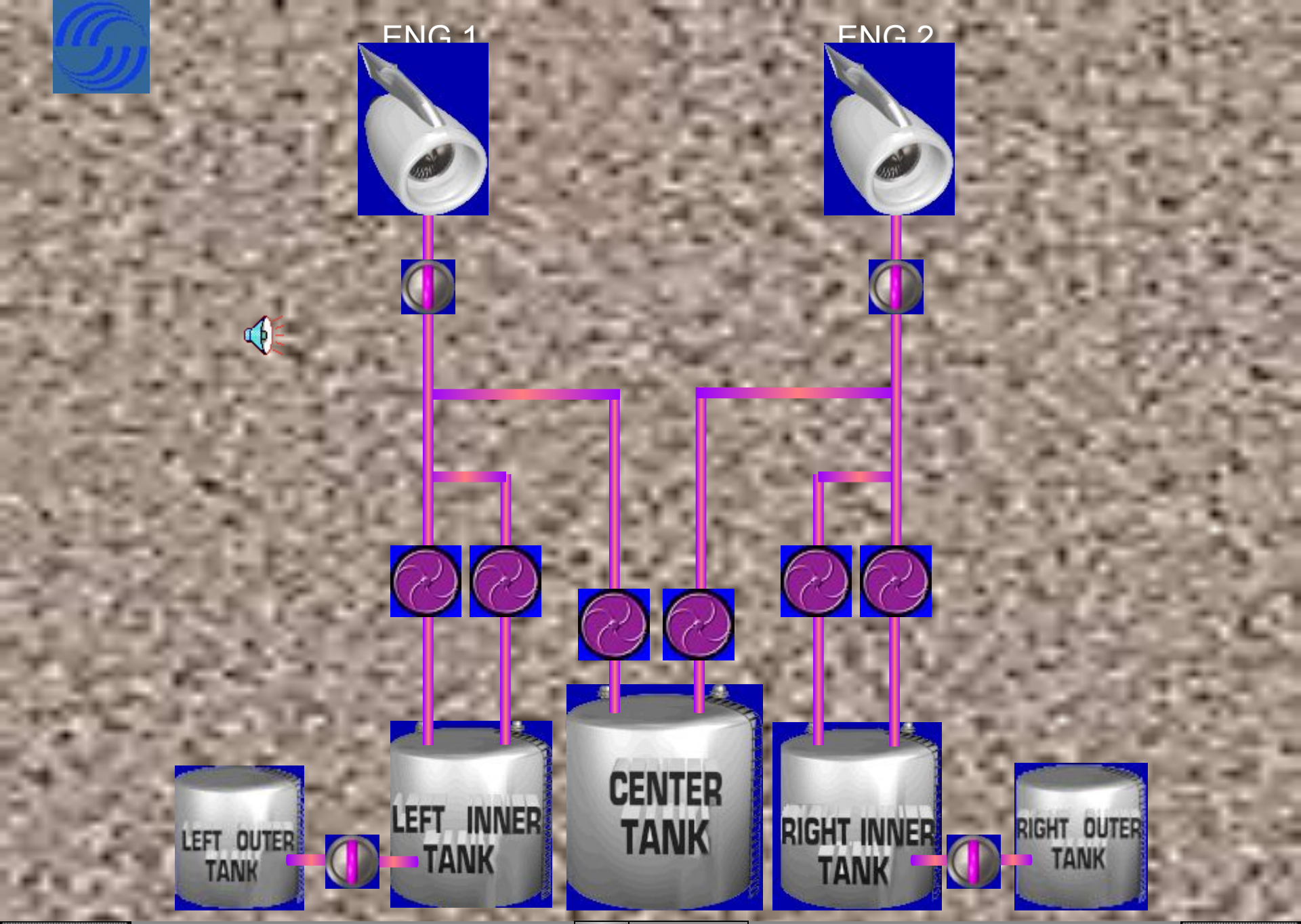


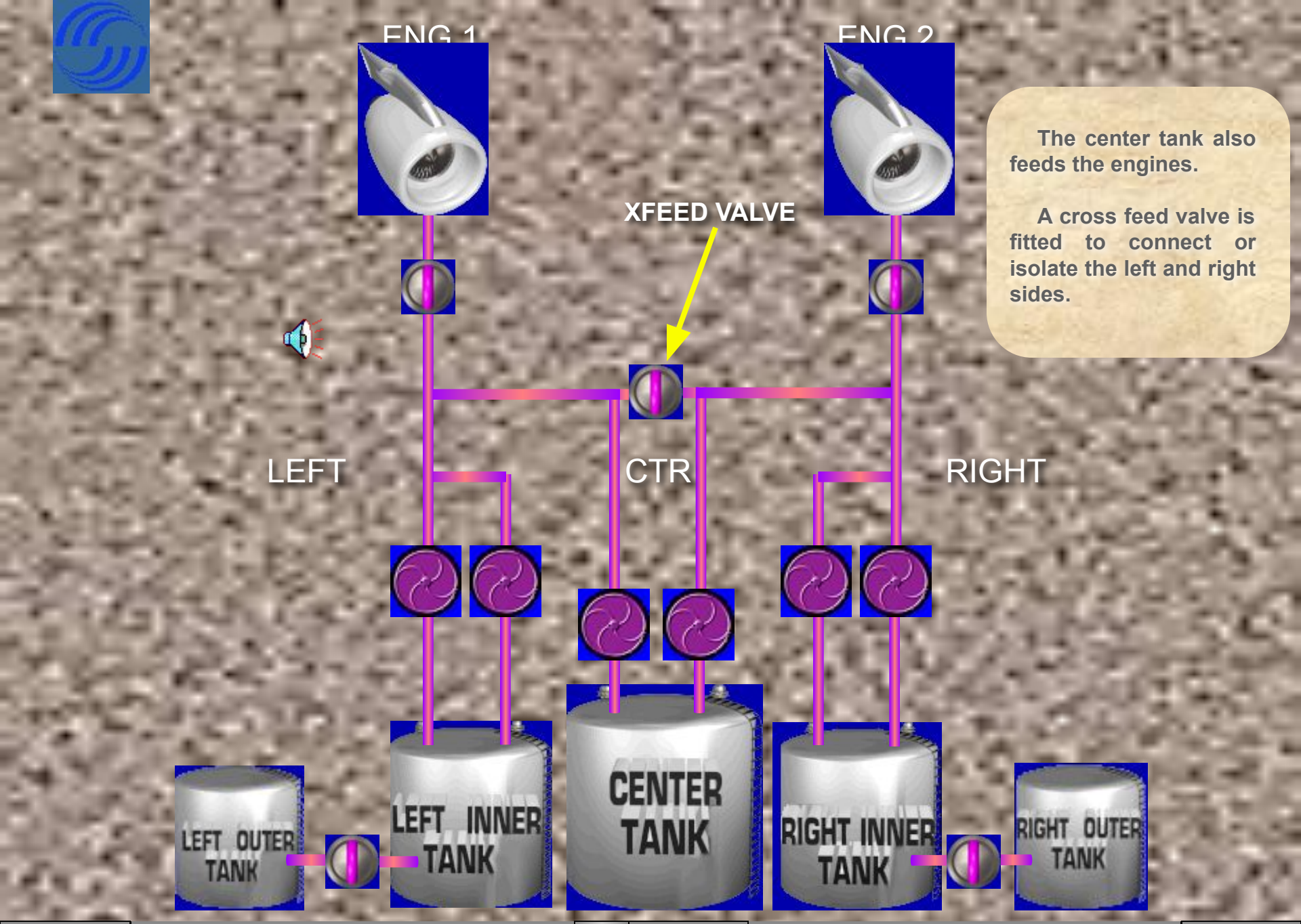
Two transfer valves allow fuel to transfer from the outer tanks to the inner tanks.




ENG 1
ENG 2
LEFT OUTER TANK
LEFT INNER TANK
CENTER TANK
RIGHT INNER TANK
RIGHT OUTER TANK

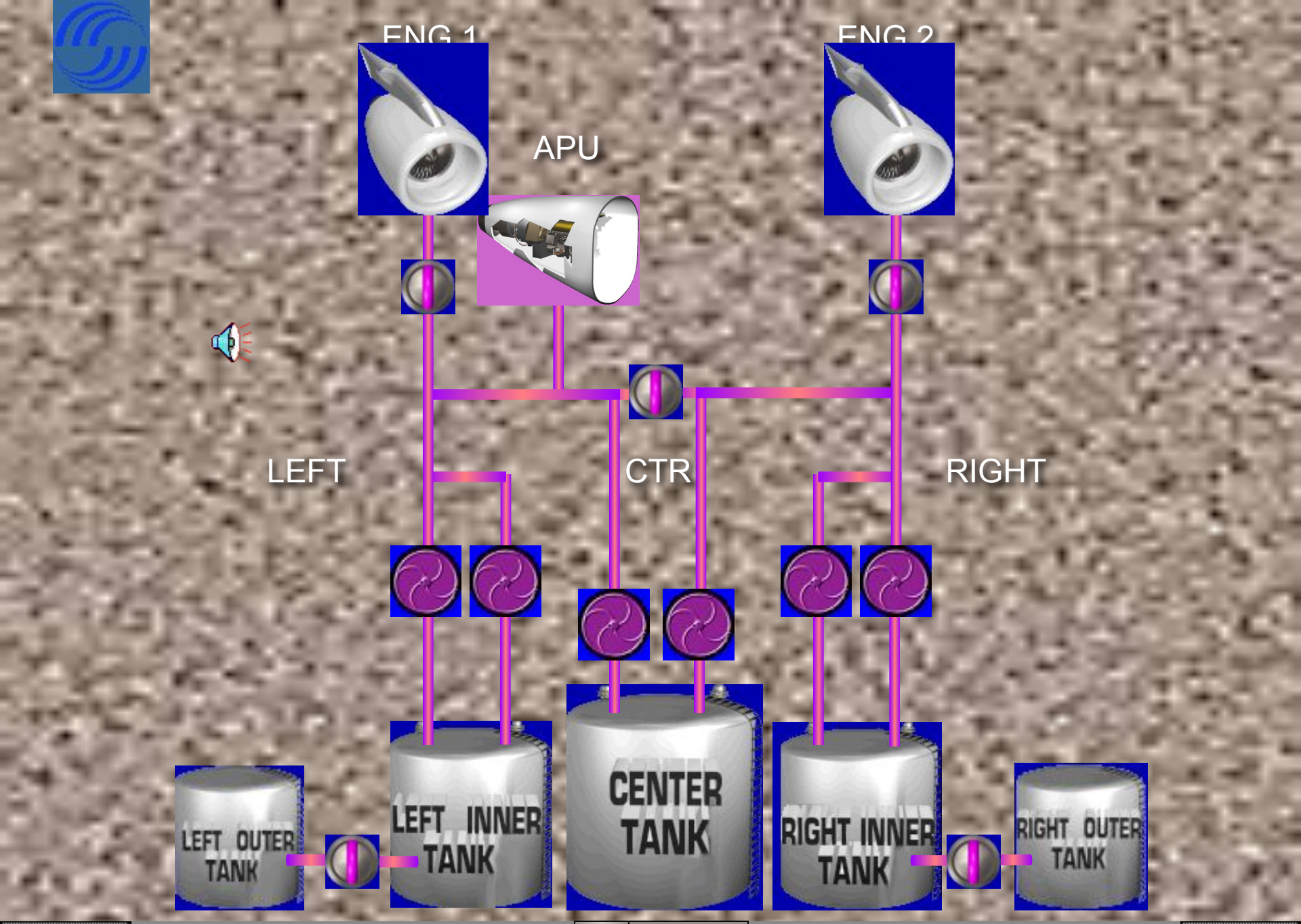

ENG 1
ENG 2
ENGINE LP VALVE
ENGINE LP VALVE
Each inner tank feeds its respective engine.
Two engine Low Pressure valves are installed to cut off fuel to the engines.
LEFT OUTER TANK
LEFT INNER TANK
CENTER TANK
RIGHT INNER TANK
RIGHT OUTER TANK

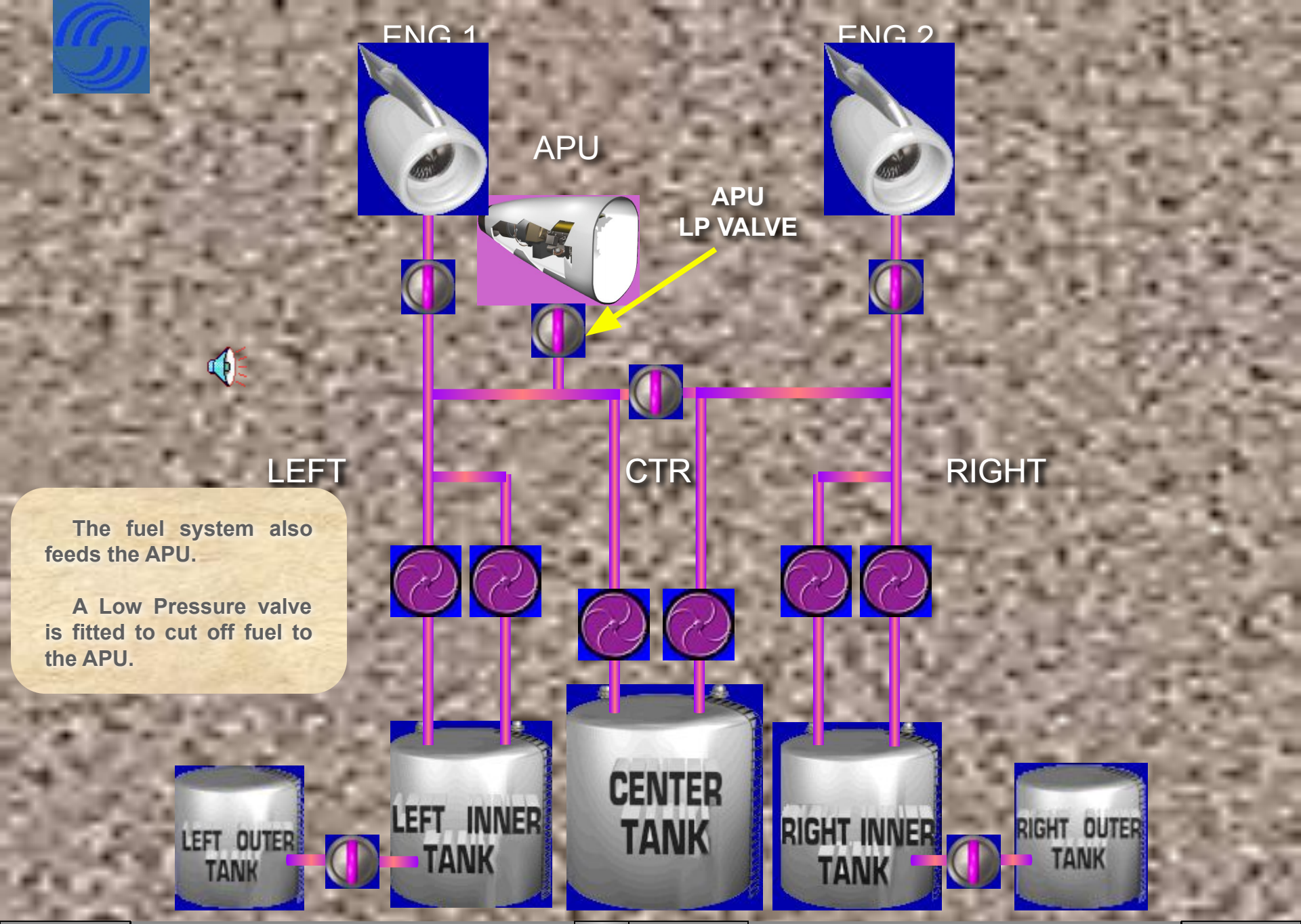

ENG 1
ENG 2
LEFT OUTER TANK
LEFT INNER TANK
CENTER TANK
RIGHT INNER TANK
RIGHT OUTER TANK




The center tank also feeds the engines.

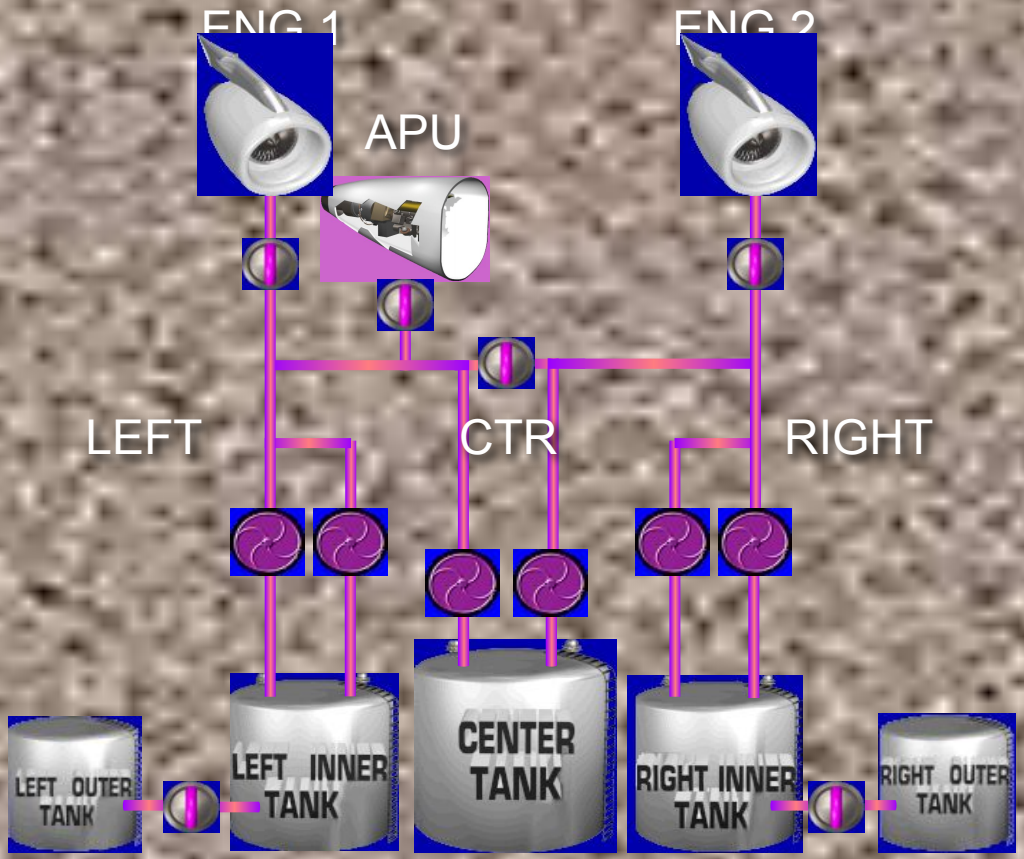
A cross feed valve is fitted to connect or isolate the left and right sides.


ENG 1
ENG 2
APU
LEFT
CTR
RIGHT
LEFT OUTER TANK
LEFT INNER TANK
CENTER TANK
RIGHT INNER TANK
RIGHT OUTER TANK




The fuel system also feeds the APU.

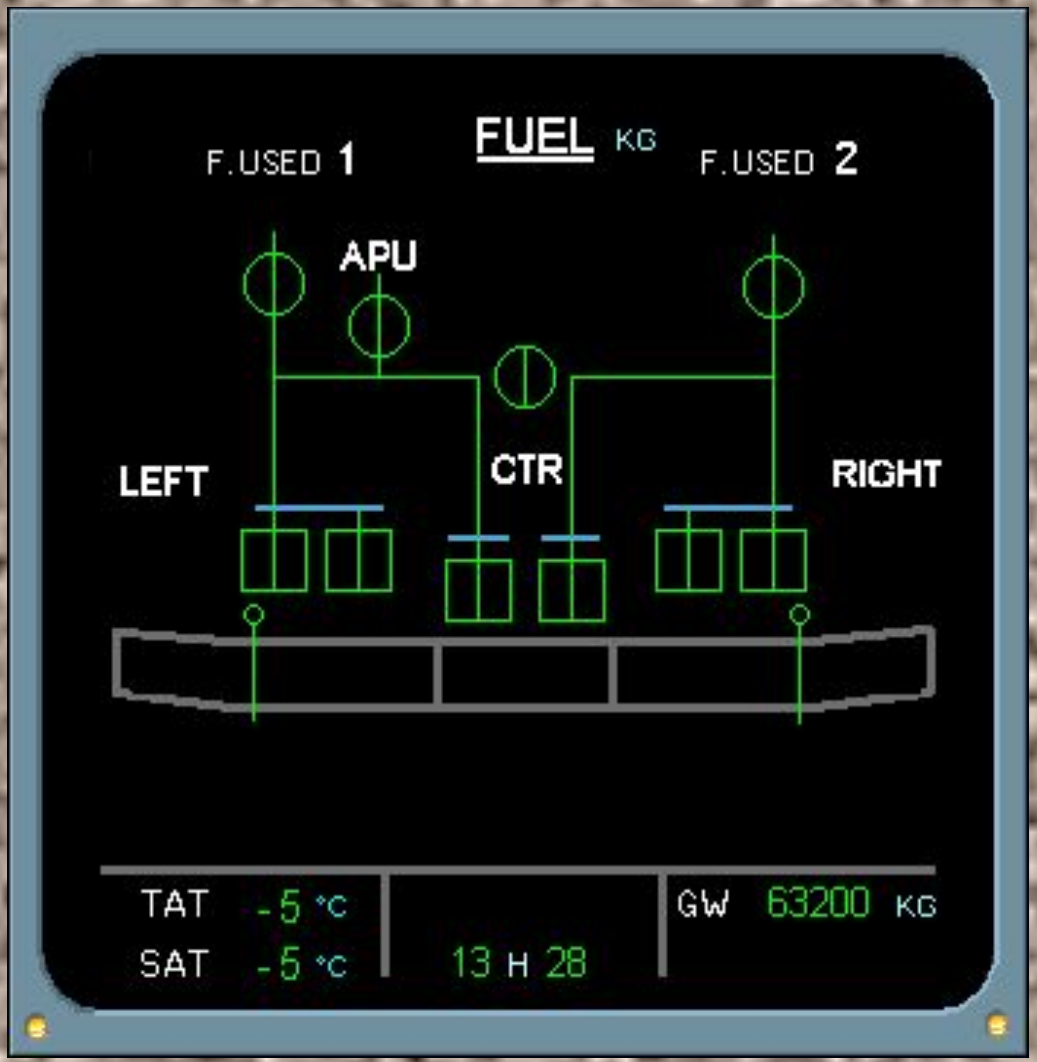
A Low Pressure valve is fitted to cut off fuel to the APU.




This represents the basic fuel system.

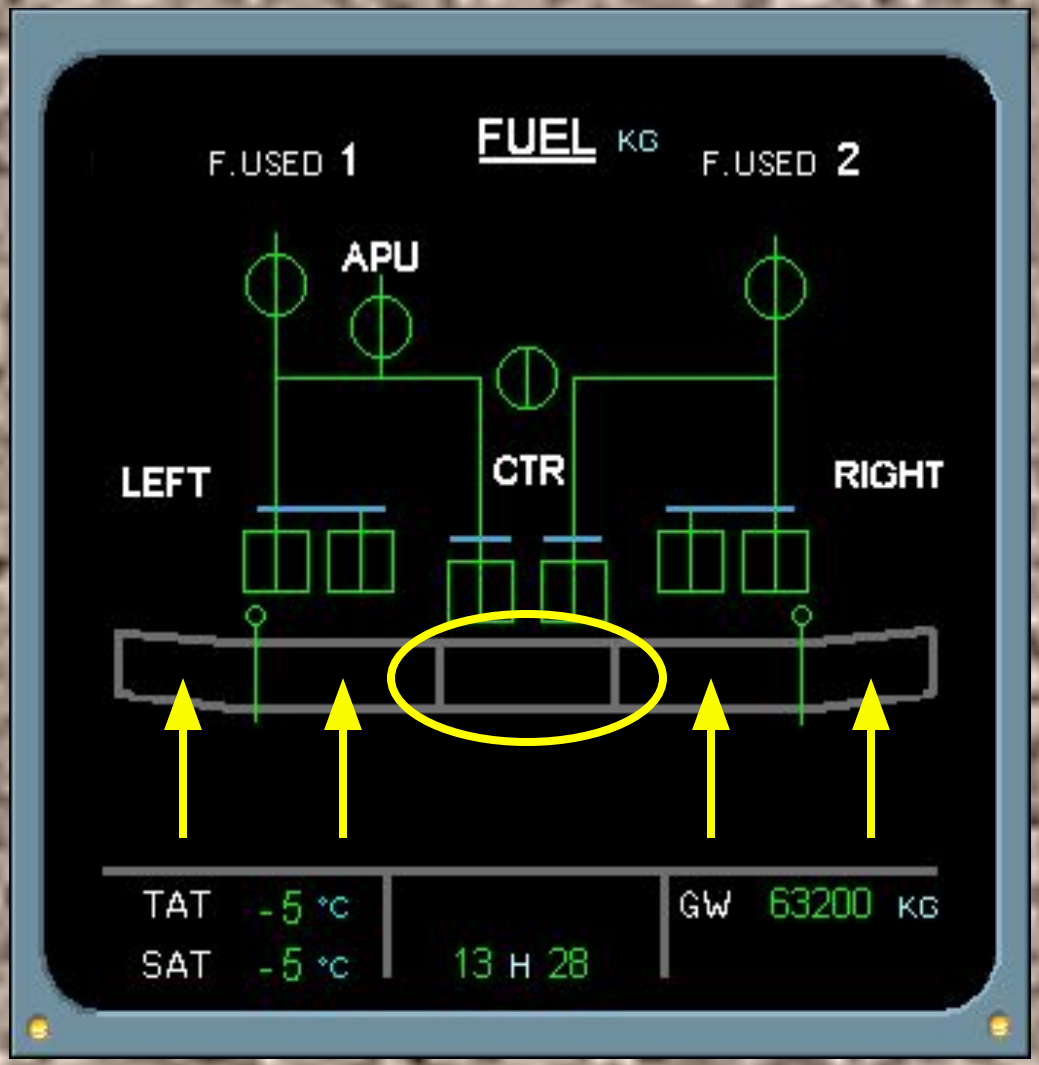
We will now see how this information is presented to the pilots in the cockpit.

*Click on the schematic to display the ECAM FUEL page.*

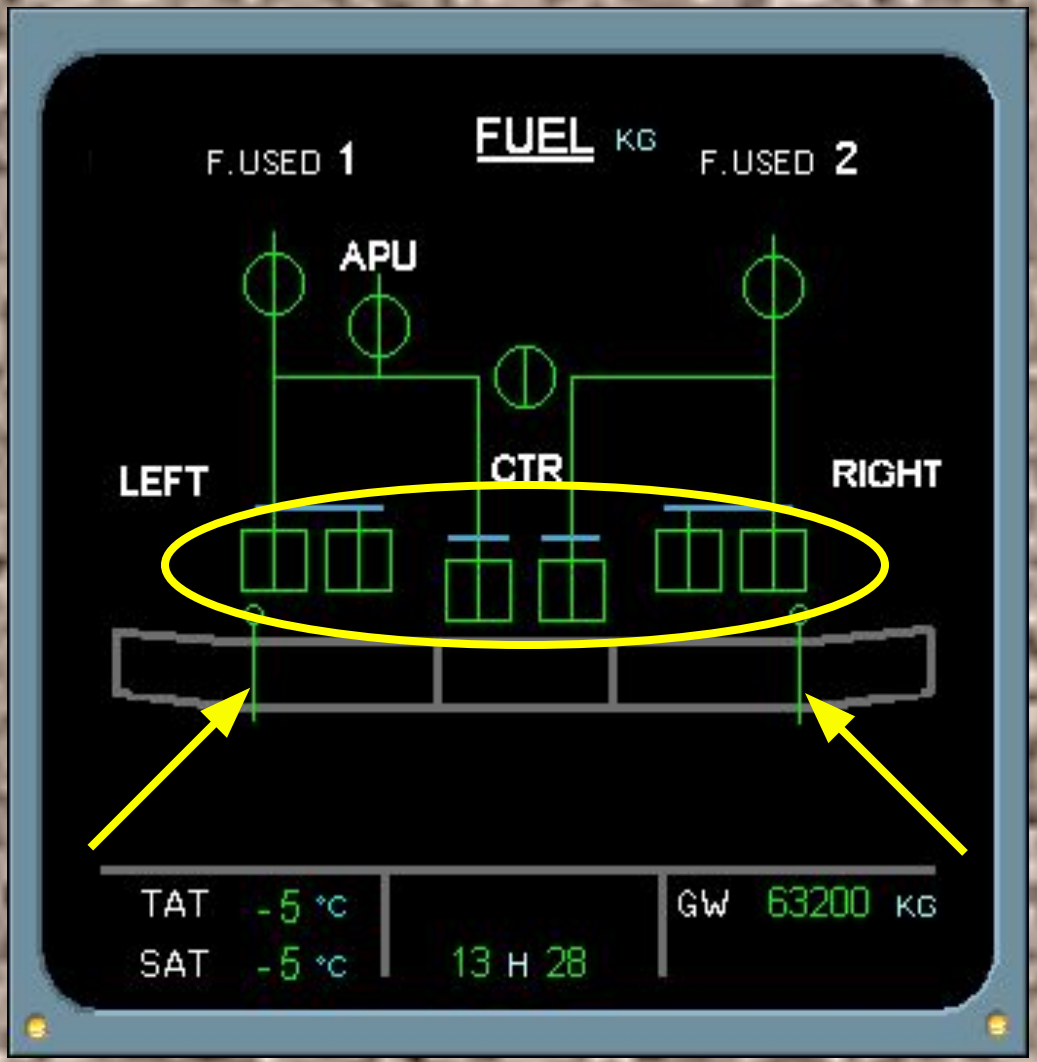



You can see that all the components we have talked about are displayed on the ECAM page.

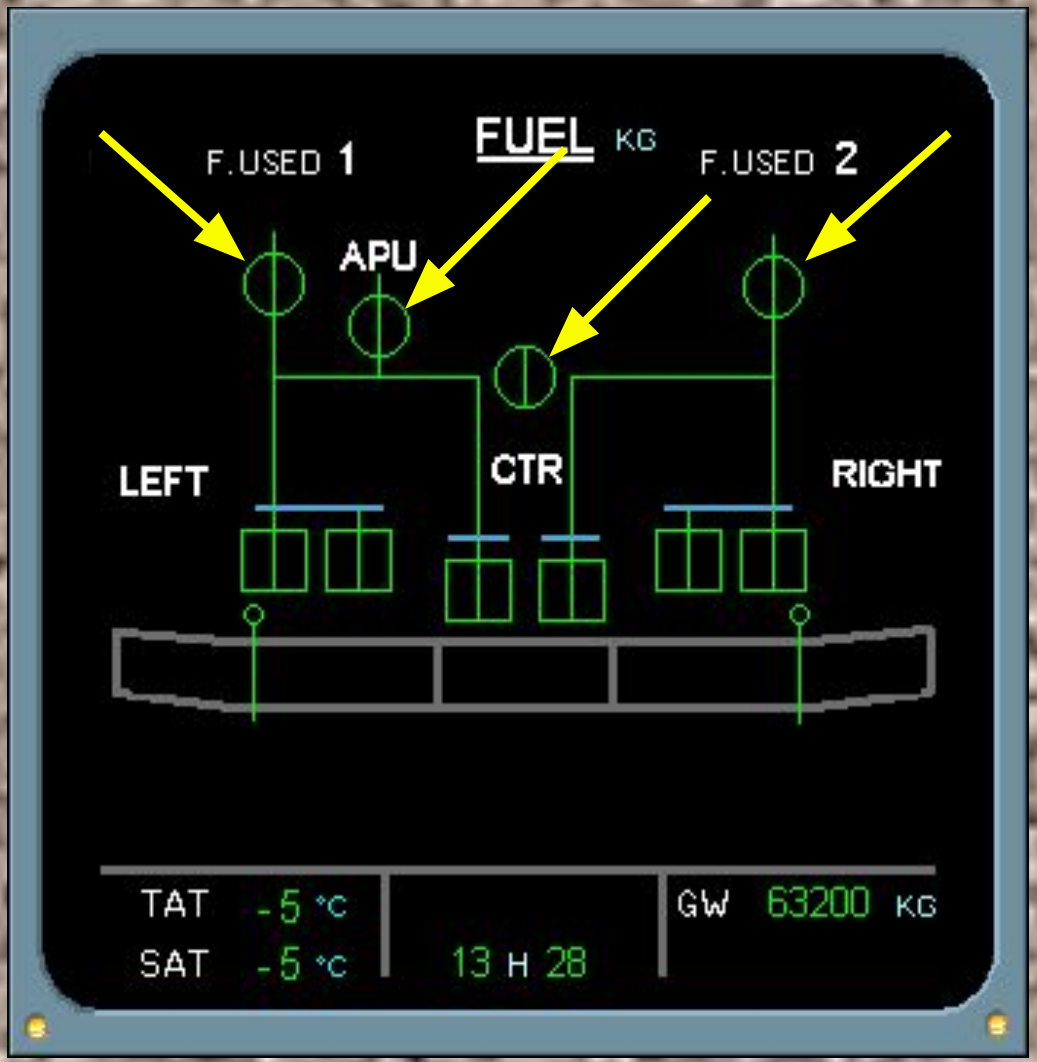
Let's briefly review the basic system using the ECAM FUEL page.



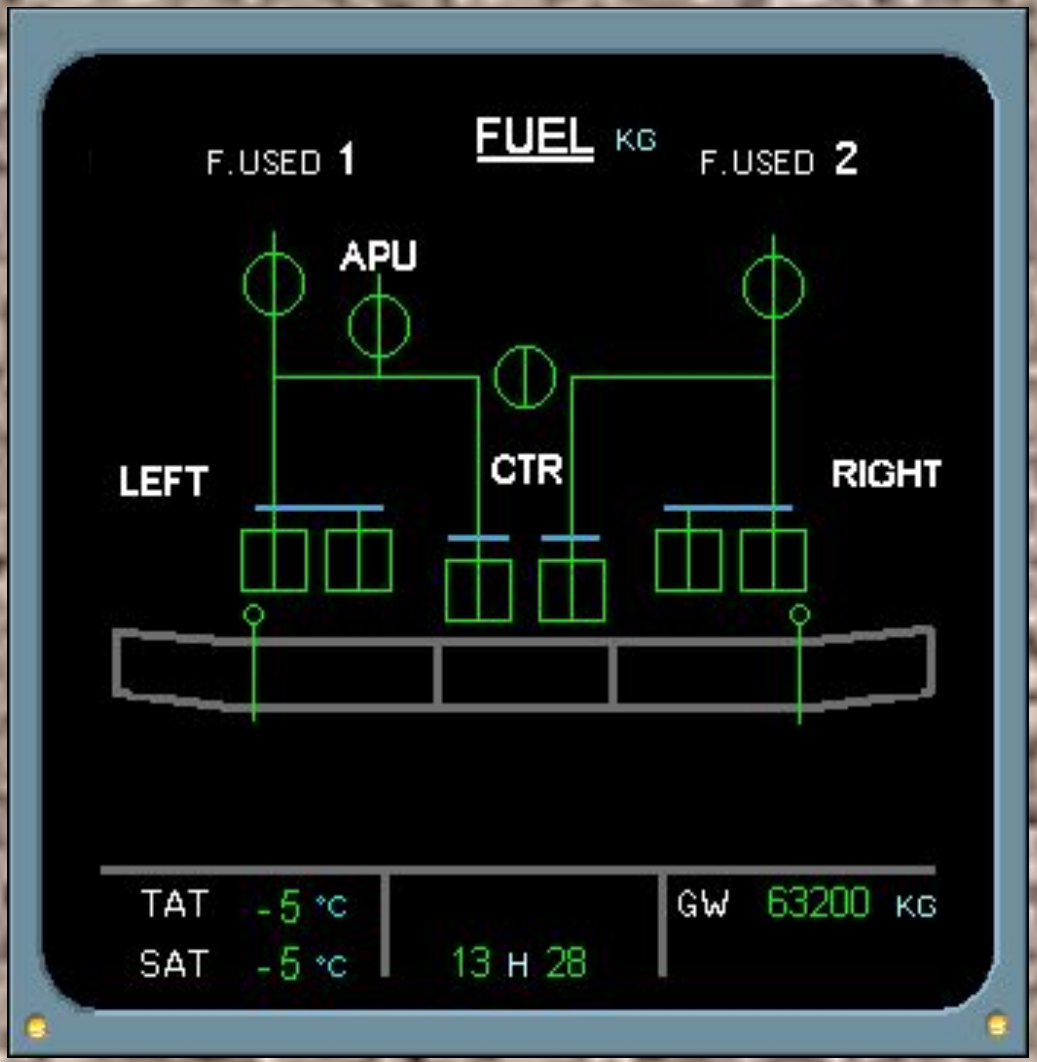

- The center tank in the fuselage,
- the inner tanks in the wings,
- the outer tanks in the wings,




- the fuel pumps,
- the transfer valves,

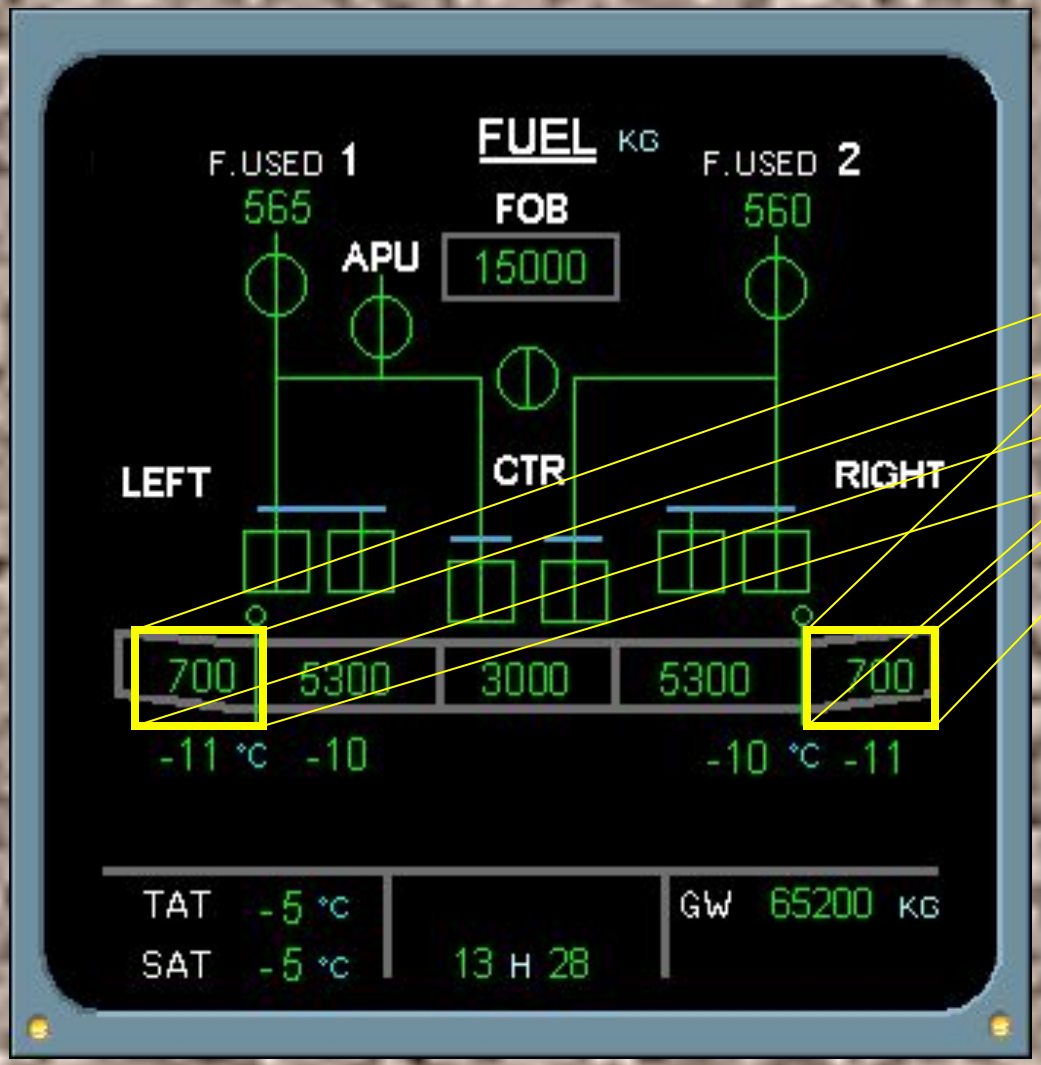



- the engine LP valves,
- the crossfeed valve,
- the APU LP valve.



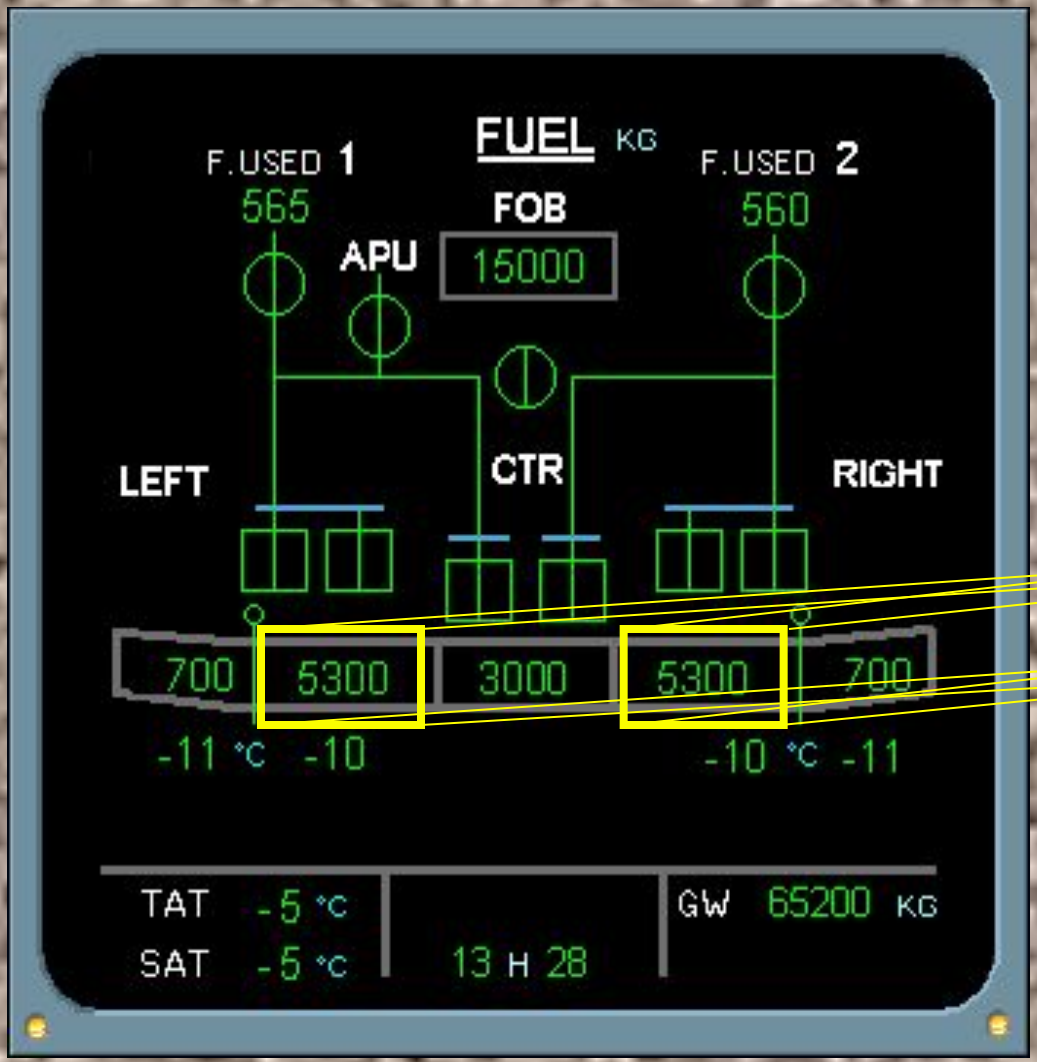

For the purpose of clarity, we have left out some indications.

*Click on the ECAM page to display them.*




These indications are :

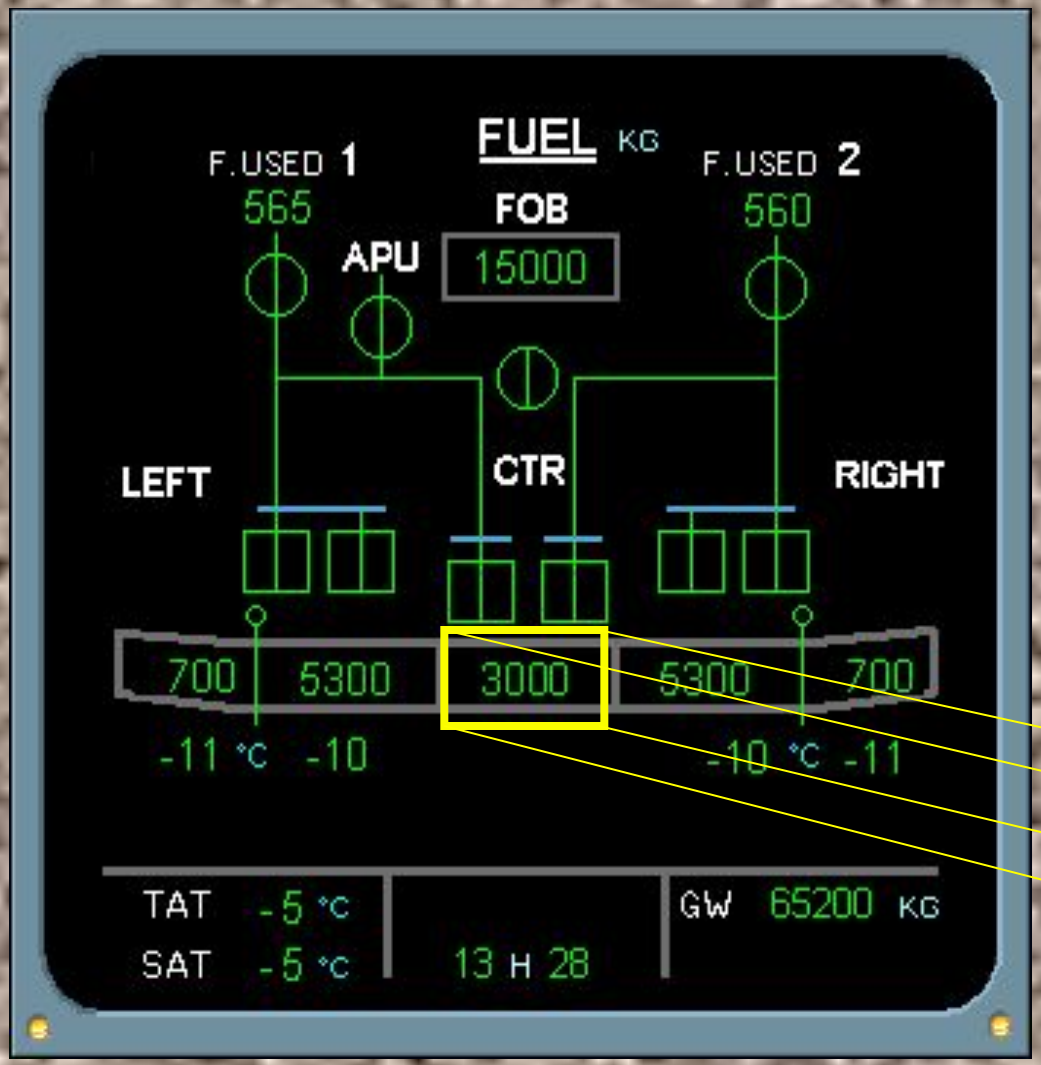

- Outer tank fuel quantity,




These indications are :


- Outer tank fuel quantity,


- inner tank fuel quantity,




These indications are :

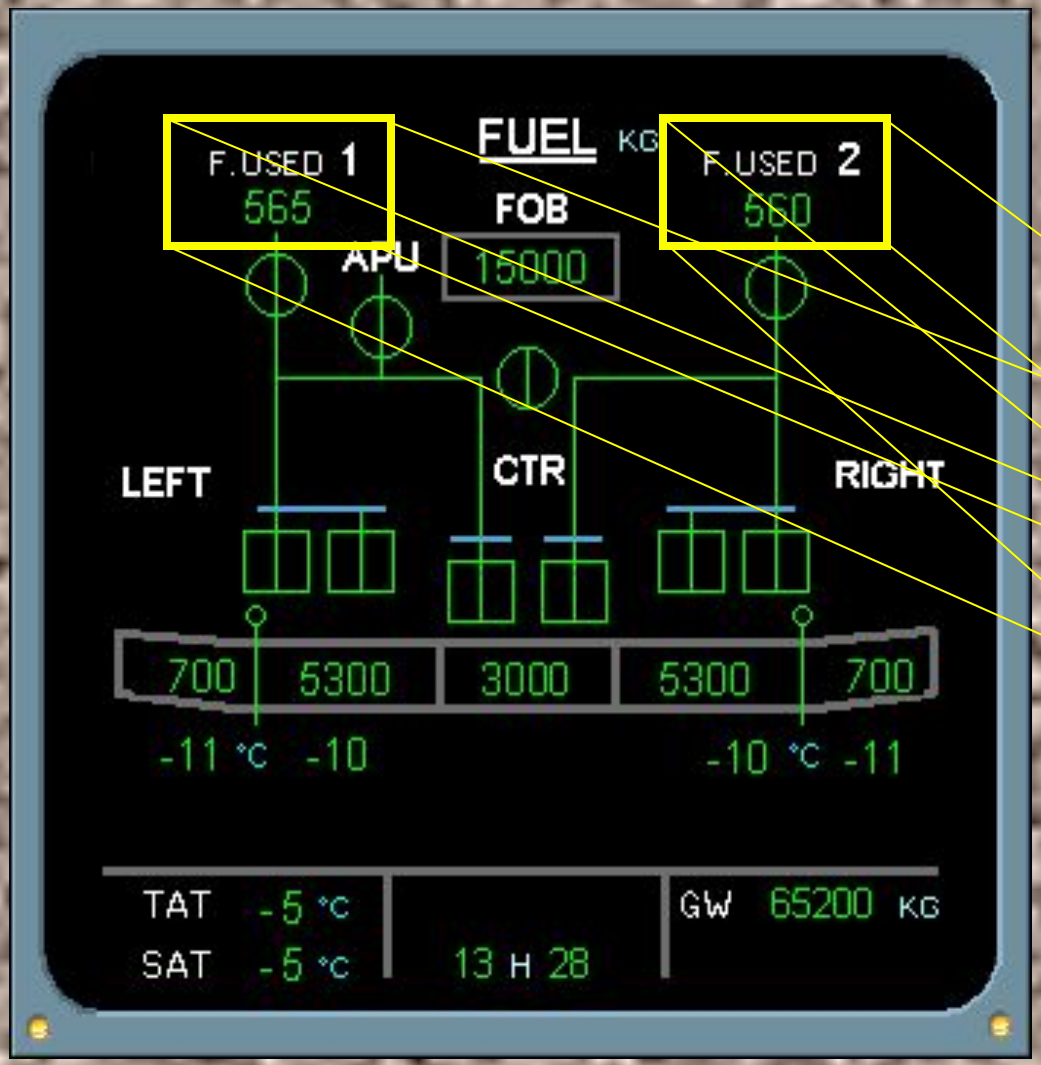

- Outer tank fuel quantity,


- inner tank fuel quantity,


- center tank fuel quantity,



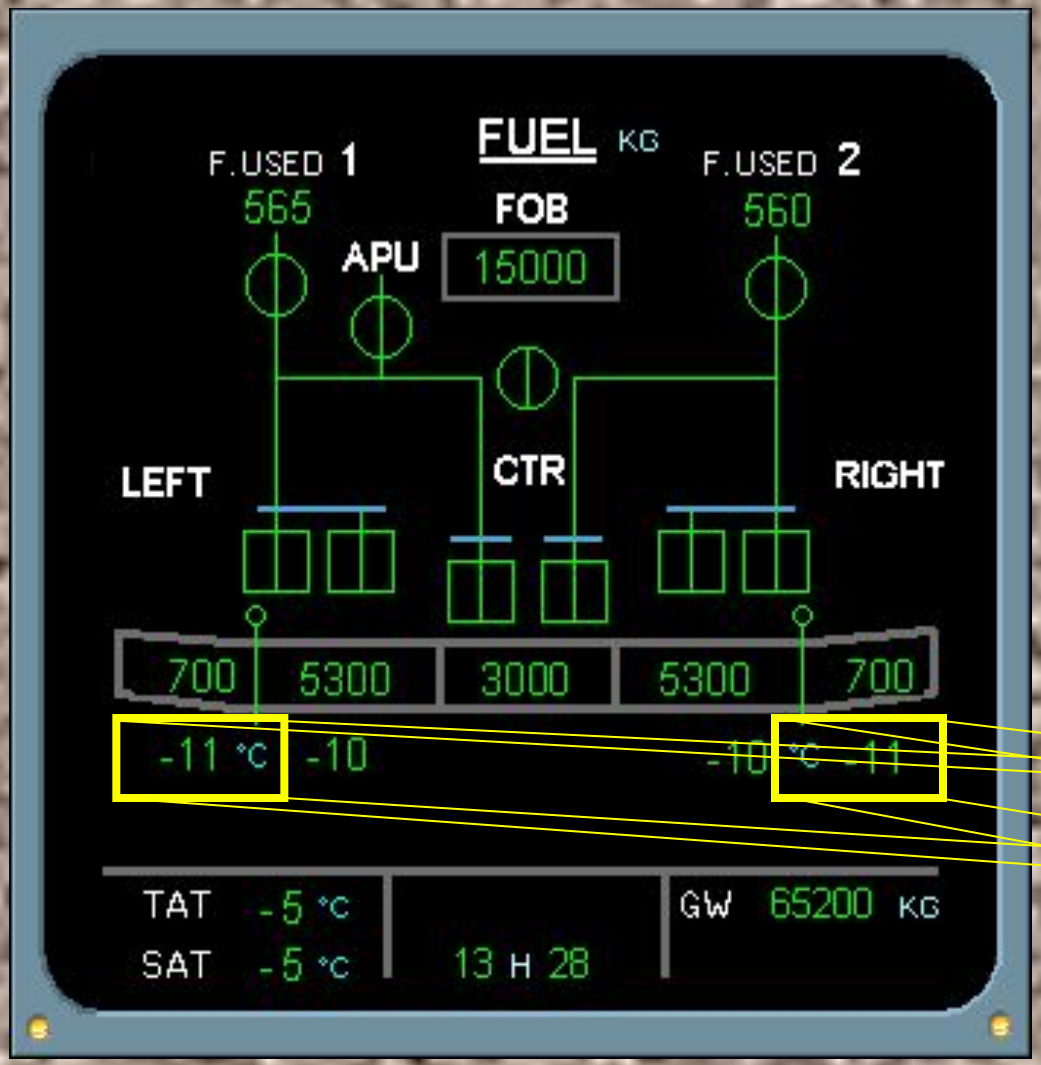
- Fuel On Board (FOB),





- Fuel On Board (FOB),


- Fuel used quantity,




FOB
15000

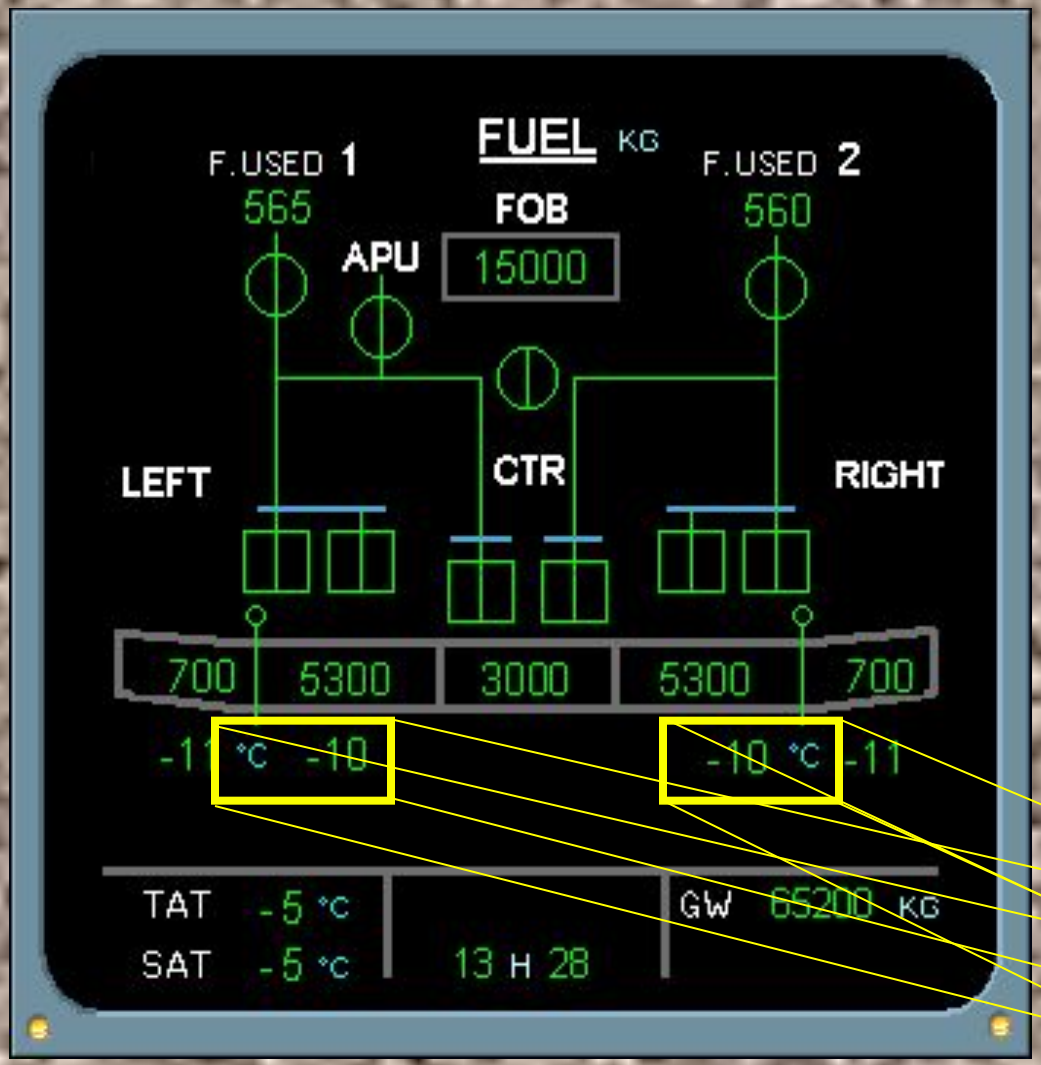
- Fuel On Board (FOB),

F.USED 1
565

- Fuel used quantity,

-11 °C

- Outer tank temperature,




FOB
15000

- Fuel On Board (FOB),

F.USED 1
565

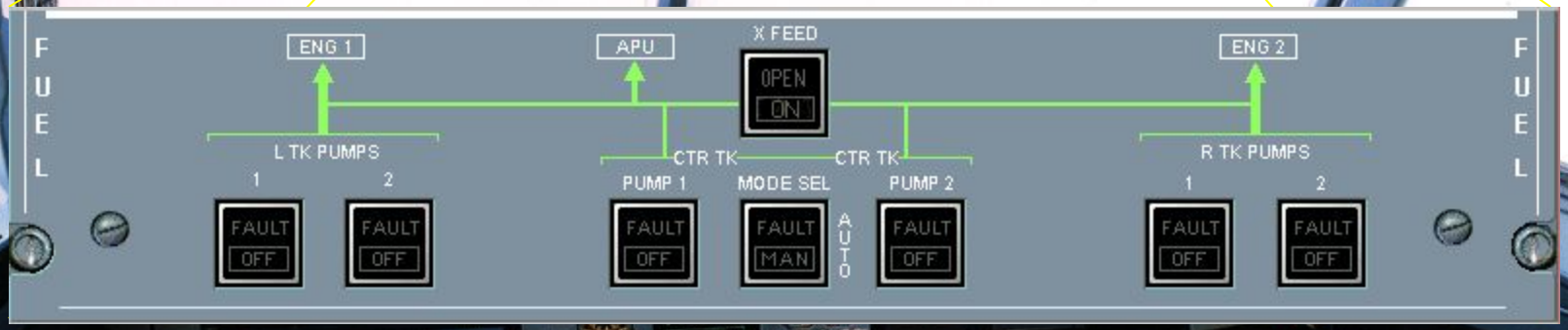
- Fuel used quantity,

-11 °C

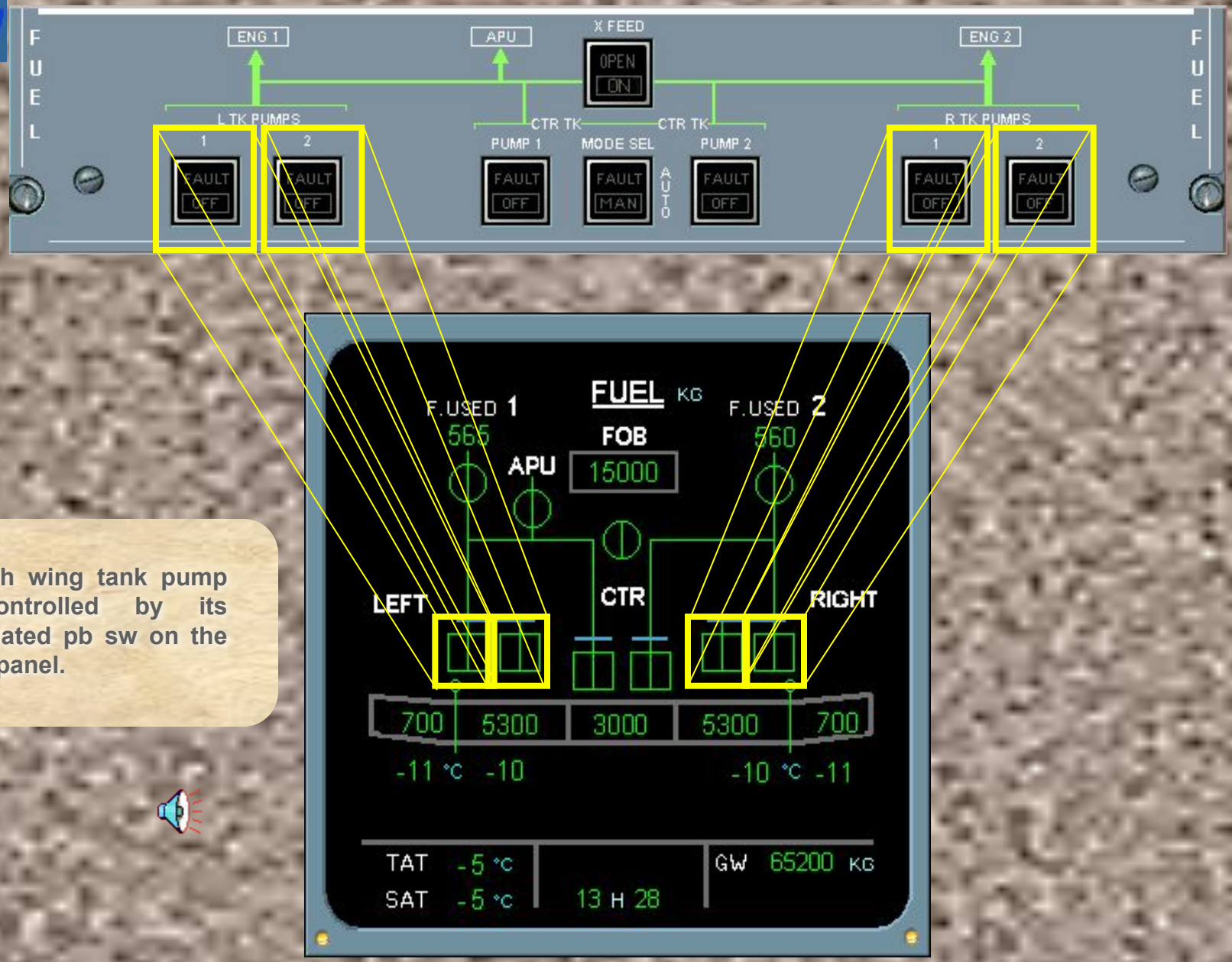
- Outer tank temperature,

-10 °C

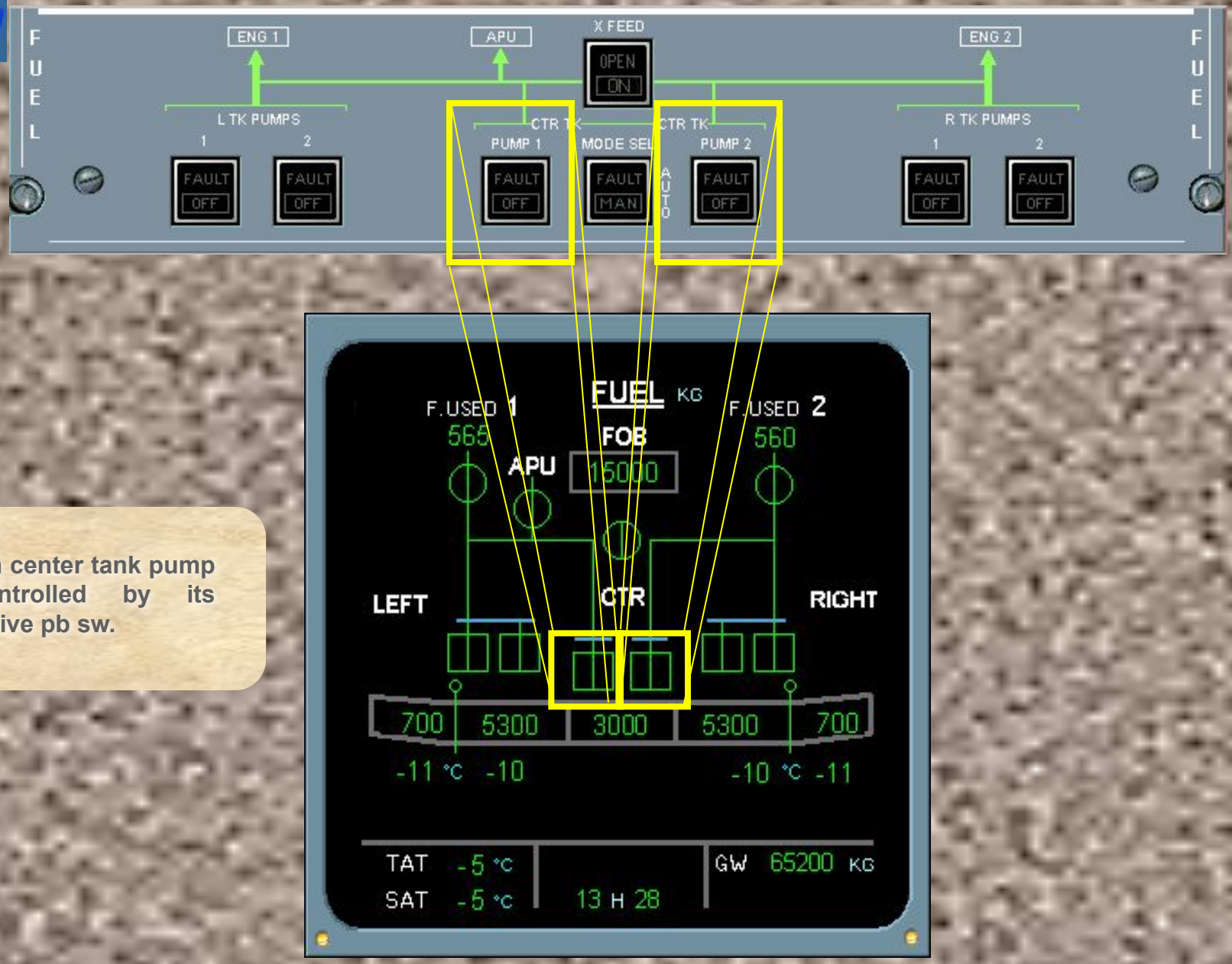
- Inner tank temperature.



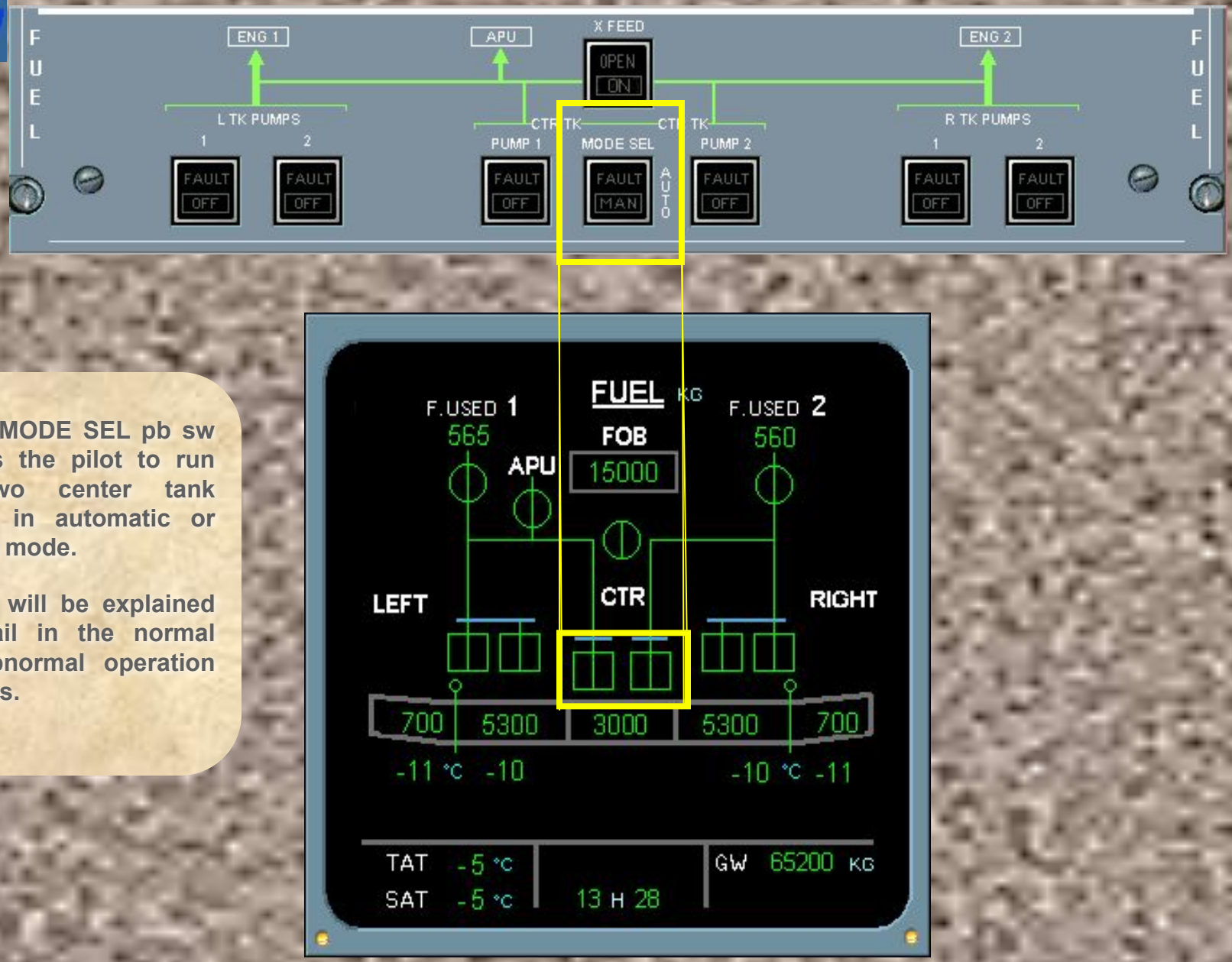

The FUEL panel is located on the overhead panel.




Each wing tank pump is controlled by its associated pb sw on the FUEL panel.

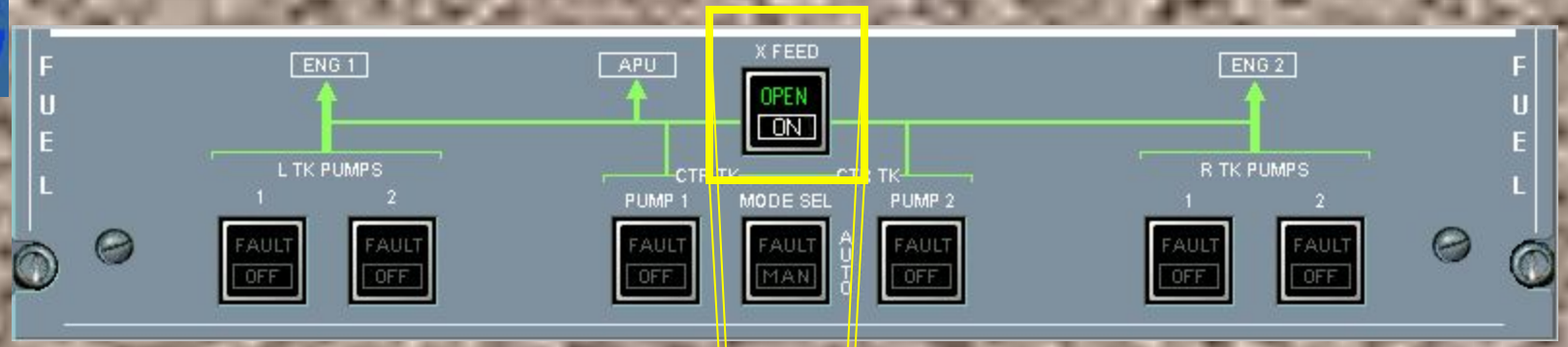


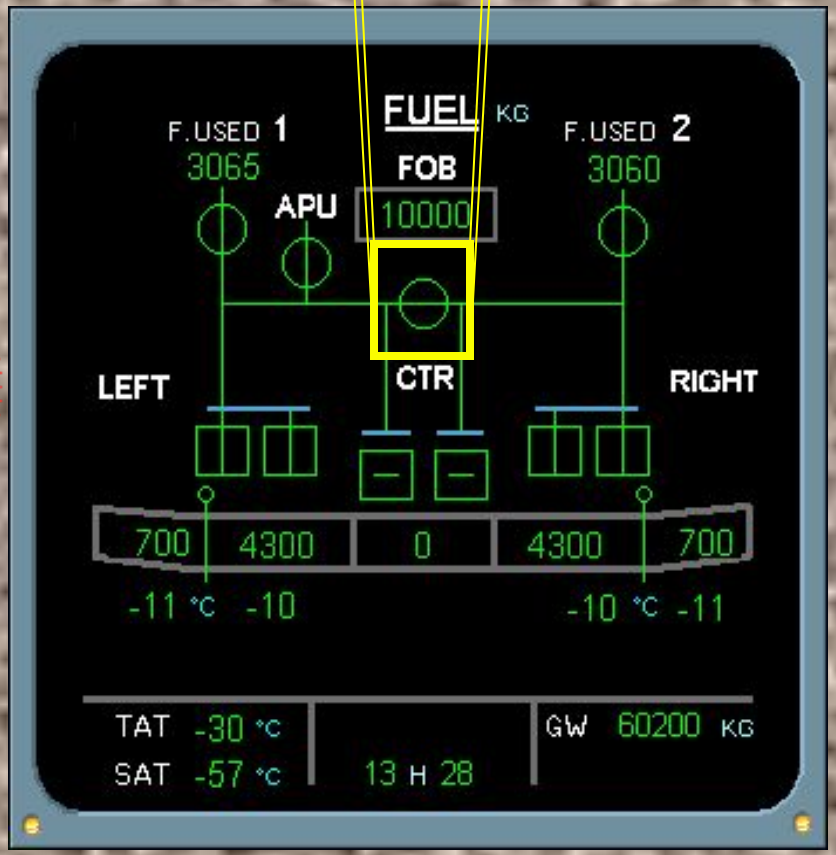

Each center tank pump is controlled by its respective pb sw.



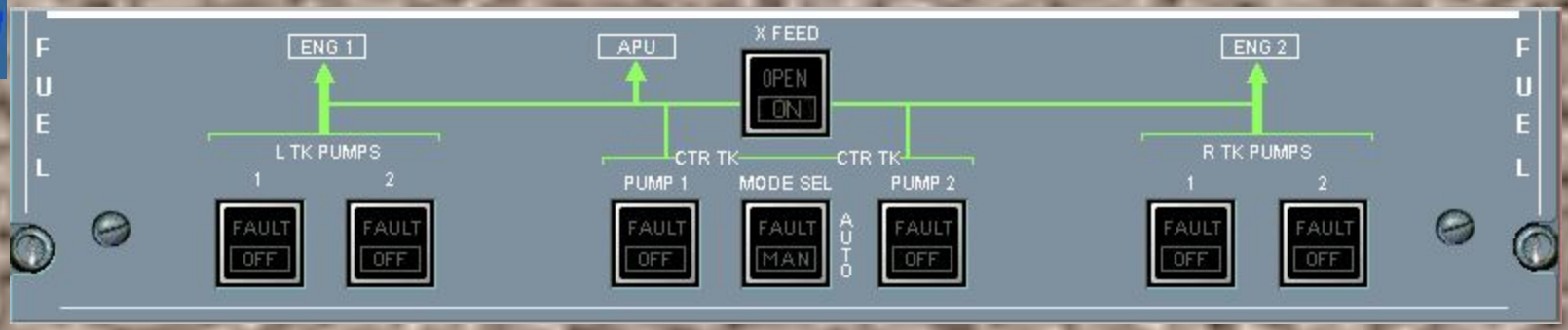

The MODE SEL pb sw enables the pilot to run the two center tank pumps in automatic or manual mode.

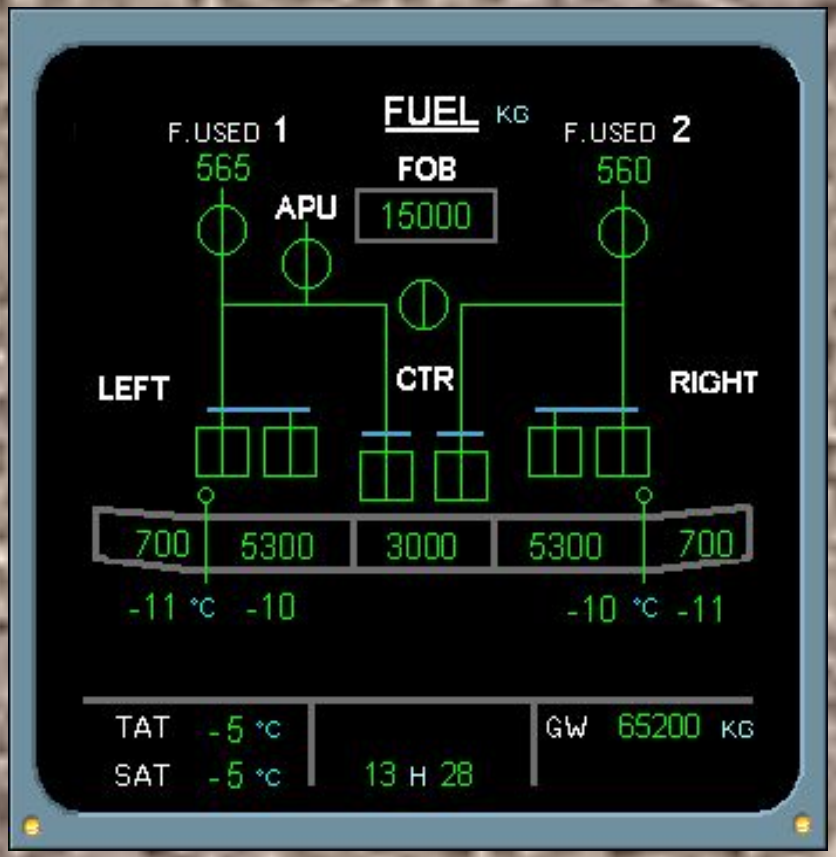
This will be explained in detail in the normal and abnormal operation modules.




The X FEED pb sw enables the pilot to connect or isolate the left and right sides of the fuel system.




Once again, you will operate all these controls and see the associated indications in the normal and abnormal operation modules.

*Module completed*

# MENU

## LIST OF SUBJECTS

- SYSTEM INTRODUCTION
- FUEL ECAM PAGE
- FUEL PANEL LOCATION
- FUEL CONTROLS AND INDICATIONS

AUDIO | GLOSSARY | FCOM

RETURN | EXIT