

Advisory Wire

REFERENCE NO:	AW700-28-0862	INFORMATION TYPE:	Maintenance
ATA:	28-40	EFFECTIVITY:	Global 7500
SUBJECT:	Aft Fuel Tank High Level Sensor		

1. REFERENCES:

- 1.1 Aircraft Maintenance Publication - BD700-A-J12-11-01-00AAA-211A-A - Pressure refueling – Refuel
- 1.2 Aircraft Maintenance Publication - BD700-A-J45-47-00-04AAA-913A-A - Access to view system configuration- General maintenance procedure
- 1.3 AW700-45-0697 – Global 7500 – Onboard Maintenance System (OMS) Nuisance Messages

2. INTRODUCTION:

This Advisory Wire (AW) is to inform operators about a potential nuisance OMS fault associated with the aft fuel tank High Level Sensor (HLS) which may be posted after the refueling of the aft tank.

3. DESCRIPTION:

Following the complete refueling of the aft tank (Ref. 1.1), the Fuel Quantity Management Computer (FQMC) may interpret a disagreement between the Smart Fuel Tank Unit (SFTU) High Level Sensor (HLS) state and the SFTU fuel height. The FQMC would read the HLS state as immersed (“WET”), and the fuel height measured by the SFTUs would be considered lower than expected. This is due to the normal variation of different jet fuel characteristics. If this occurs, the FQMC may consider the SFTU HLS as faulty and post the following OMS fault:

2840044FQMC - AFT High Level SNSR Fault / Reported by FQMC

The fault clears when the HLS state changes from “WET” to “DRY” with the normal decrease of fuel quantity (≈100 lbs) in the aft tank through manual or auto transfer.

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This nuisance OMS message does not impact the refueling function and can be validated with the fuel OMS data page (Ref. 1.2) as shown in Figure 1.

HLS failed with full aft tank

Aft fuel tank quantity decreased by 100 lbs

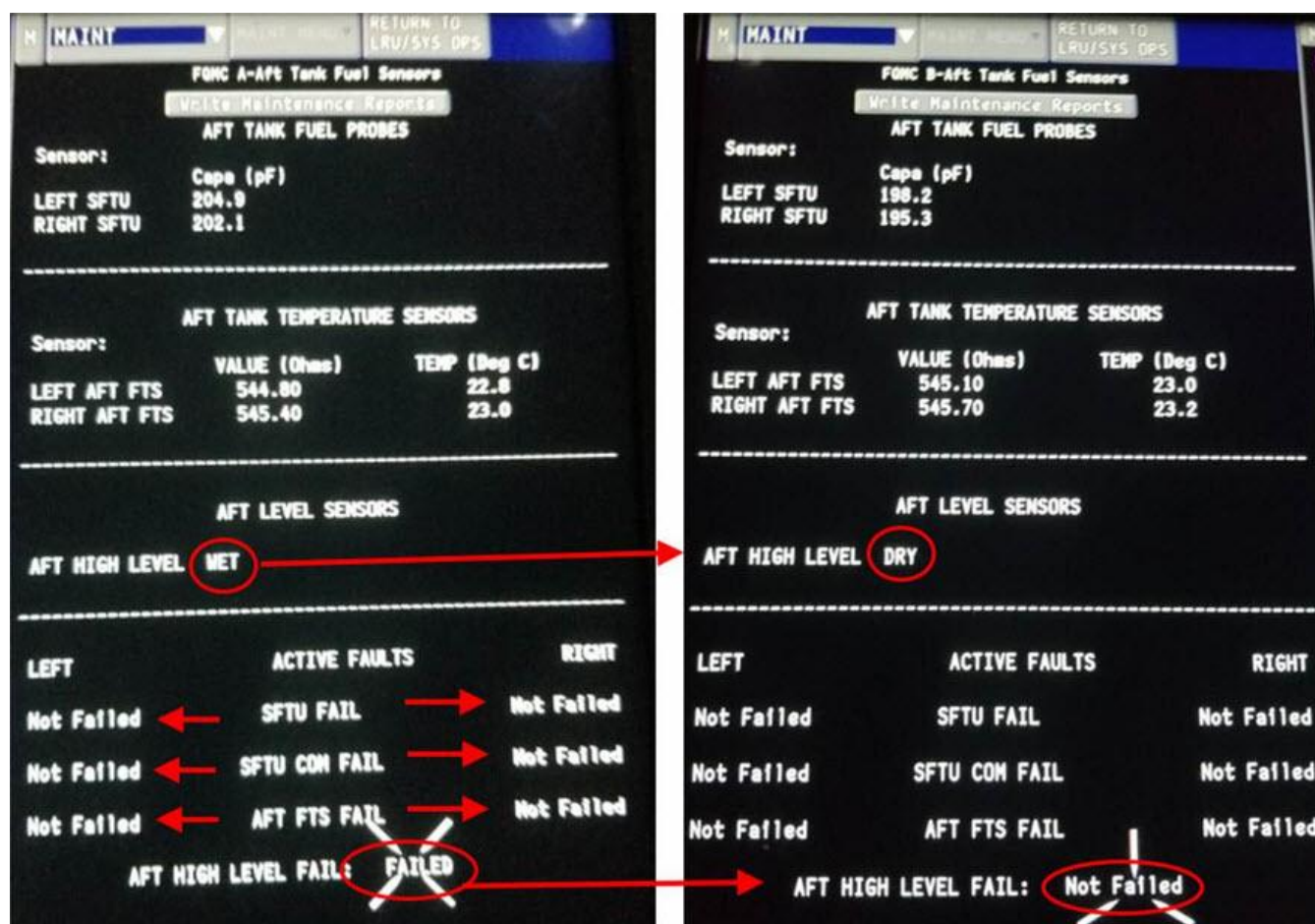


Figure 1 OMS Fuel Data page

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4. ACTION:

Operators should become familiar with this potential nuisance message to avoid unnecessary troubleshooting, fuel tank access or replacement of an operational right SFTU.

Bombardier is working on a corrective action to resolve this OMS nuisance message. In the meantime, to confirm that the message is a nuisance, Bombardier recommends the following:

- 1) Ensure that there is no related aft tank refueling system malfunction (i.e., aft tank can be fully refueled).
- 2) Verify in the OMS fuel data page that the aft HLS state is shown as “WET” and that the aft tank fuel quantity is full. (Ref. 1.2 & Figure 1)
- 3) The fault resets when the aft tank quantity is decreased sufficiently (≈ 100 lbs) to change the HLS state from “WET” to “DRY”.

This fault shall be considered a nuisance message only if the message is cleared as per step 3 above. Otherwise, the message should not be considered a nuisance and be troubleshoot.

Bombardier will revise this AW when a corrective action becomes available.

This nuisance fault will also be added to the AW700-45-0697 – Global 7500 – Onboard Maintenance System (OMS) Nuisance Messages. (Ref. 1.3)

Should you have any questions pertaining to this AW or additional queries, please contact your Bombardier Field Service Representative (FSR) or the Customer Response Center (CRC).