 Customer Services	Simulator ELAC1+2 Fault during UPRT recovery scenario(sEFCS 7.3-3)	Dossier Reference: 80910798
		Creation date dossier: 22-APR-2021

Company:	CHINA SIMULATION SCIENCES CO LTD CSS	Project Number:	10033
Requestor:	YONG TANG	Sim. Owner:	
Visible by:		Sim. Manufacturer:	CHINA SIMULATION SCIENCES CO LTD CSS
A/C Type:	A320	Standard or MSN:	2.0.0
ATA:	27-93	Device:	FFS
Engine Series:	CFM56-5B	Product:	Simulation Software Package

Messages :

Airbus Reference : 80910798/008 **Requestor Reference :**

Title : Request for clarification / additional information

Submitted date : 16-JUN-2021 16:33 UTC+1 DST

Final Answer : N

Urgency :

Requested Answer :

Planned Answer :

Message :

Dear Customer,

Airbus would provide you with the following information :

Please be aware the it is recommended to activate ALT LAW or DIRECT LAW before starting any UPRT scenario, because the NORMAL LAW is not designed to cover inconsistent situations where the aircraft is directly set out of the protections domain.


In your UPRT scenario, regarding the description provided in message /001 ("we perform an upset recovery scenario which is 120 deg roll left and 30 deg pitch up") and the traces analysis, it seems that the NORMAL LAW is active from the beginning, then ELAC FAULT may occur in that case during recovery process (even with sEFCS 07.03.03).

To fix this issue, make sure that ALT or DIR LAW is set during your UPRT exercise.

If the issue is still present when ALT or DIR LAW is activated, then could you please provide us with :

- the aircraft configuration (GW, CG, SF conf, Vcas, Alt...)
- the precise description of the upset recovery scenario performed, from the normal situation to the end of the recovery process triggering ELAC FAULT (pilot inputs, aircraft attitude... plots are preferred if available, QTG parameters and format like for ex)
- the IOS configuration in UPRT menu (options selected such as scenario, flight control law, level of windshear, turbulence and gust...)
- the approx delay between UPRT scenario activation and ELAC FAULT triggering (for this particular test, is this delay longer with sEFCS v07.03.03 compared to the previous version installed?)
- a trace recording using the list attached, from the normal situation to the ELAC FAULT triggering

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We hope this provides satisfactory clarification.
Should you need any further information, please feel free to contact us.

Best regards,

Olivier EIGLE
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