
SERVICE BULLETIN

N° **139-714**

RECOMMENDED

DATE: June 12, 2023

REV. : /

TITLE

ATA 25 - LIFE RAFT CABLES RETROMOD

REVISION LOG

First Issue

1. PLANNING INFORMATION

A. EFFECTIVITY

NOTE

AW139 helicopters that have applied SB 139-516 Rev. A or subsequent revisions (except S/N 41215, S/N 31373, S/N 41380), or SB 139-586 (except S/N 31580 and S/N 31363) are NOT required to be compliant with the current SB 139-714.

All AW139 helicopters from S/N 31201 to S/N 31993 (except S/N 31990), S/N 31995 and from S/N 41201 to S/N 41583 equipped with kit emergency floatation 15 pax life rafts P/N 4G9560F00111 or with kit emergency floatation 18 pax life rafts P/N 4G9560F00211.

B. COMPLIANCE

NOTE

The compliance time is subject to the same tolerances as per AMPI Chap. 05 DM 39-A-05-11-00-00A-028E-P Inspection/task interval tolerances – General.

Within and not later than 1200 flight hours or 1 year, whichever occurs first, after the issue of this Service Bulletin.

LH recommends the implementation of this SB in accordance with the indicated compliance time, with related tolerances as applicable. It is the Operator's responsibility to properly plan and execute the SB application i.a.w. LH recommendations. The Operator remains liable for any deviation.

C. CONCURRENT REQUIREMENTS

N.A.

D. REASON

This Service Bulletin is issued in order to provide the necessary instruction on how to perform the inspection of the cables P/N 3G2560V02032 and the installation of the LH-RH liferaft cables retromod P/N 3G2560P02011.

LH issued this SB for the following reason:

Helicopter Reliability/Maintainability	✓
Product Improvement	
Obsolescence	
Customization	
Product/Capability Enhancement	

E. DESCRIPTION

This Service Bulletin prescribes a visual inspection of the cables P/N 3G2560V02032, in order to check if there is water and/or condensation inside the transparent sleeving that protects the metal cable.

The Service Bulletin prescribes also the installation of the LH-RH life raft cables retromod P/N 3G2560P02011, which install the cover plates P/N 3G2560A14151 and the gaskets P/N 3G2560A14251 on the cover handle assemblies P/N 3G5317A43533.

F. APPROVAL

The technical content of this Service Bulletin is approved under the authority of DOA nr. EASA.21.J.005. For helicopters registered under other Aviation Authorities, before applying the Service Bulletin, applicable Aviation Authority approval must be checked within Leonardo Helicopters customer portal.

EASA states mandatory compliance with inspections, modifications or technical directives and related time of compliance by means of relevant Airworthiness Directives.

If an aircraft listed in the effectivity embodies a modification or repair not LHD certified and affecting the content of this Service Bulletin, it is responsibility of the Owner/Operator to obtain a formal approval by Aviation Authority having jurisdiction on the aircraft, for any adaptation necessary before incorporation of the present Service Bulletin.

G. MANPOWER

To comply with this Service Bulletin, sixty (60) MMH are deemed necessary.

MMH are based on hands-on time and can change with personnel and facilities available.

H. WEIGHT AND BALANCE

N.A.

I. REFERENCES

I.1 PUBLICATIONS

Following Data Modules refer to AMP:

<u>DATA MODULE</u>	<u>DESCRIPTION</u>	<u>PART</u>
DM01 39-A-00-20-00-00A-120A-A	Helicopter on ground for a safe maintenance.	-
DM02 39-A-05-11-00-00A-028E-P	Permitted inspection/check interval tolerances - General	-
DM03 39-A-06-41-00-00A-010A-A	Access doors and panels general data.	-
DM04 39-E-25-62-03-00A-520A-K	Left life raft control cable remove procedure.	-
DM05 39-E-25-62-03-00A-720A-K	Left life raft control cable Install procedure.	-
DM06 39-E-25-62-04-00A-520A-K	Right life raft control cable remove procedure.	-
DM07 39-E-25-62-04-00A-720A-K	Right life raft control cable Install procedure.	-
DM08 39-E-25-62-05-00A-921A-K	Left external handle replacement (remove and install a new item).	-
DM09 39-E-25-62-00-00A-320A-K	Life raft installation - Life raft control cables operation test.	-

I.2 ACRONYMS & ABBREVIATIONS

AMDI	Aircraft Material Data Information
AMP	Aircraft Maintenance Publication
DM	Data Module
DOA	Design Organization Approval
EASA	European Aviation Safety Agency
LH	Leonardo Helicopters
MMH	Maintenance Man Hours
P/N	Part Number
S/N	Serial Number

I.3 ANNEX

N.A.

J. PUBLICATIONS AFFECTED

AW139 AMP

AW139 IPD

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K. SOFTWARE ACCOMPLISHMENT SUMMARY

N.A.

2. MATERIAL INFORMATION

A. REQUIRED MATERIALS

A.1 PARTS

#	P/N	ALTERNATIVE P/N	DESCRIPTION	Q.TY	LVL	NOTE	LOG P/N
1	3G2560V02032		Back-up handle and cable assy	AR	.	(1)	-
2	3G2560P02011		LH-RH LIFERAFT CABLES INSTL RETRO-MOD	REF	.		-
3	3G2560A14151		Cover plate	2	..		-
4	3G2560A14251		Gasket	2	..		-

Refer also to IPD for the spares materials required to comply with the AMP DMs referenced in the accomplishment instructions.

A.2 CONSUMABLES

The following consumable materials, or equivalent, are necessary to accomplish this Service Bulletin:

#	SPEC./LHD CODE NUMBER	DESCRIPTION	Q.TY	NOTE	PART
5	AWMS05-001, Type I, Class B, Grade 2	SEALANT MC-780 CLASS B (C465)	AR	(1)	-
6	AWMS05-001, Type I, Class C, Grade 1	SEALANT MC-780 CLASS C (C465)	AR	(1)	-
7	199-05-152, Type I class 2	ADHESIVE RTV 732 (C126)	AR	(1)	-

Refer also to AMDI for the consumable materials required to comply with the AMP DM referenced in the accomplishment instructions.

A.3 LOGISTIC MATRIX

N.A.

NOTES

- (1) Item to be ordered depending on the result of the inspection described.
- (2) Item to be procured as local supply.

B. SPECIAL TOOLS

N.A.

C. INDUSTRY SUPPORT INFORMATION

Owners/Operators who comply with the instructions of this Service Bulletin no later than the applicable date in the "Compliance" section will be eligible to receive REQUIRED MATERIALS on free of charge basis, except for Consumable Materials and Special Tools.

NOTE: Customers who fail to comply with the instructions in this Service Bulletin before the compliance date are not eligible for the aforementioned special policy.

Please Issue relevant MMIR form to your Warranty Administration Dpt. to require the LH-RH LIFERAFT CABLES INSTL RETRO-MOD

NOTE: Only in case of NEGATIVE result of the inspection described on Step 2.1 - INSPECTION REPORT (Ref. to Figure 3) and PICTURES of affected cable P/N 3G2560V02032 are mandatory to evaluate and approve the request of materials. In case the MMIR is not accompanied by these documents, it will be rejected.

3. ACCOMPLISHMENT INSTRUCTIONS

GENERAL NOTES

- a) Place an identification tag on all components that are re-usable, including the attaching hardware that has been removed to gain access to the modification area and adequately protect them until their later re-use.
 - b) Let adhesive cure at room temperature for at least 24 hours unless otherwise specified.
 - c) All lengths are in mm.
1. In accordance with AMP DM 39-A-00-20-00-00A-120A-A, prepare the helicopter on ground for a safe maintenance. Disconnect the battery, all electrical power sources and/or the external power supply.
 2. In accordance with AMP DM 39-A-06-41-00-00A-010A-A and with reference to Figure 1, remove all external panels, internal panels and internal liners as required to gain access to the area affected by the inspection. Perform the inspection as described in the following procedure:

NOTE

Carefully inspect every part of the cables, both left and right sides, in order to detect any presence of water between the sleeving and the cable.

- 2.1 With reference to Figure 1 Principal view right side and Principal view left side, inspect the back-up handle and cable assemblies P/N 3G2560V02032 to check if there is water and/or condensation inside the transparent sleeving that protects the metal cable.

NOTE

Perform the following steps 2.2 and 2.3 only if there is water and/or condensation inside the transparent sleeving.

NOTE

Perform the following steps 2.2 and 2.3 on left and/or right side, according to the results of the inspection described in step 2.1.

- 2.2 In accordance with applicable steps of AMP DM 39-E-25-62-03-00A-520A-K

- and/or AMP DM 39-E-25-62-04-00A-520A-K, and with reference to Figure 1 Principal view right side and/or Principal view left side, remove and discard the back-up handle and cable assemblies P/N 3G2560V02032 from the helicopter.
- 2.3 In accordance with applicable steps of AMP DM 39-E-25-62-03-00A-720A-K and/or AMP DM 39-E-25-62-04-00A-720A-K, and with reference to Figure 1 Principal view right side and/or Principal view left side, install the new back-up handle and cable assemblies P/N 3G2560V02032 on the helicopter.
3. with reference to Figures 1 and 2 gain access to the area affected by the installation and perform the LH-RH liferaft cables installation retromod P/N 3G2560P02011 as described in the following procedure:
- 3.1 In accordance with applicable steps of AMP DM 39-E-25-62-05-00A-921A-K and with reference to Figure 2 View B, temporarily remove the n°2 cover handle assemblies P/N 3G5317A43533 from the helicopter skin.
- 3.2 With reference to Figure 2 View B, install n°2 cover plates P/N 3G2560A14151 on the helicopter skin by means of sealant MC-780 CLASS C (C465).
- NOTE**
- Apply sealant MC-780 CLASS C (C465) between the cover plate P/N 3G2560A14151 and the cover handle assy P/N 3G5317A43533, and between the cover handle assy P/N 3G5317A43533 and the helicopter skin.
- 3.3 In accordance with applicable steps of AMP DM 39-E-25-62-05-00A-921A-K and with reference to Figure 2 View A and View B, reinstall the n°2 cover handle assemblies P/N 3G5317A43533 previously removed on the helicopter skin. Wet assemble the screws P/N MS24694-S51 by means of sealant MC-780 CLASS C (C465).
- 3.4 With reference to Figure 2 View D, seal all the external perimeter of the back-up handle and cable assemblies P/N 3G2560V02032 with a fillet of sealant MC-780 class B (C465).
- 3.5 With reference to Figure 2 View C, install n°2 gaskets P/N 3G2560A14251 on the n°2 cover handle assemblies P/N 3G5317A43533 by means of adhesive RTV 732 (C126).
4. In accordance with AMP DM 39-A-06-41-00-00A-010A-A, re-install all external panels, internal panels and internal liners previously removed.
5. In accordance with AMP DM 39-E-25-62-00-00A-320A-K perform the life raft control cables operation test.

6. Return the helicopter to flight configuration and record for compliance with this Service Bulletin on the helicopter logbook.
7. Gain access to My Communications section on Leonardo WebPortal and compile the “Service Bulletin Application Communication”.

As an alternative, send the attached compliance form to the following mail box:

engineering.support.lhd@leonardo.com

and (for North, Central and South America) also to:

AWPC.Engineering.Support@leonardocompany.us

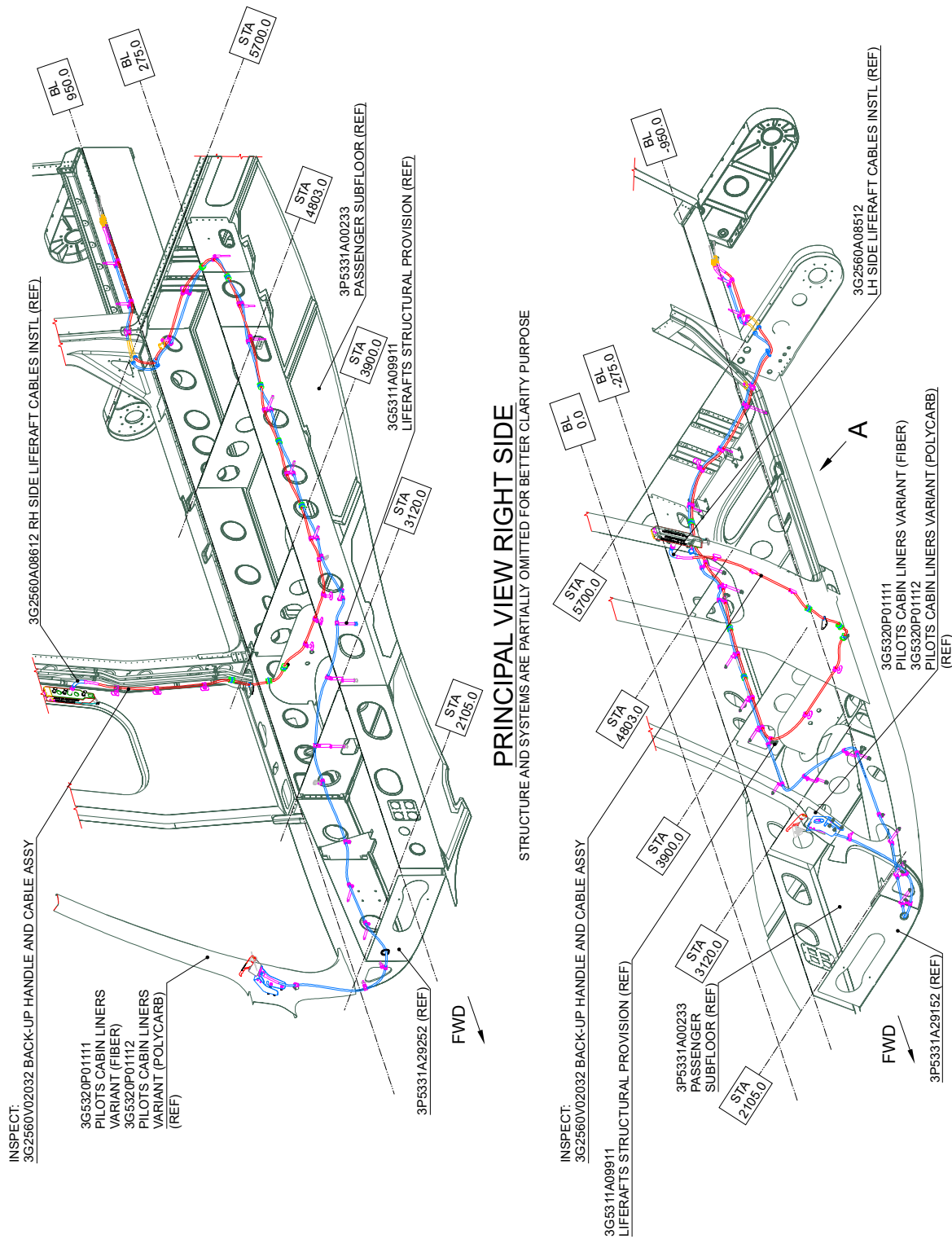


Figure 1

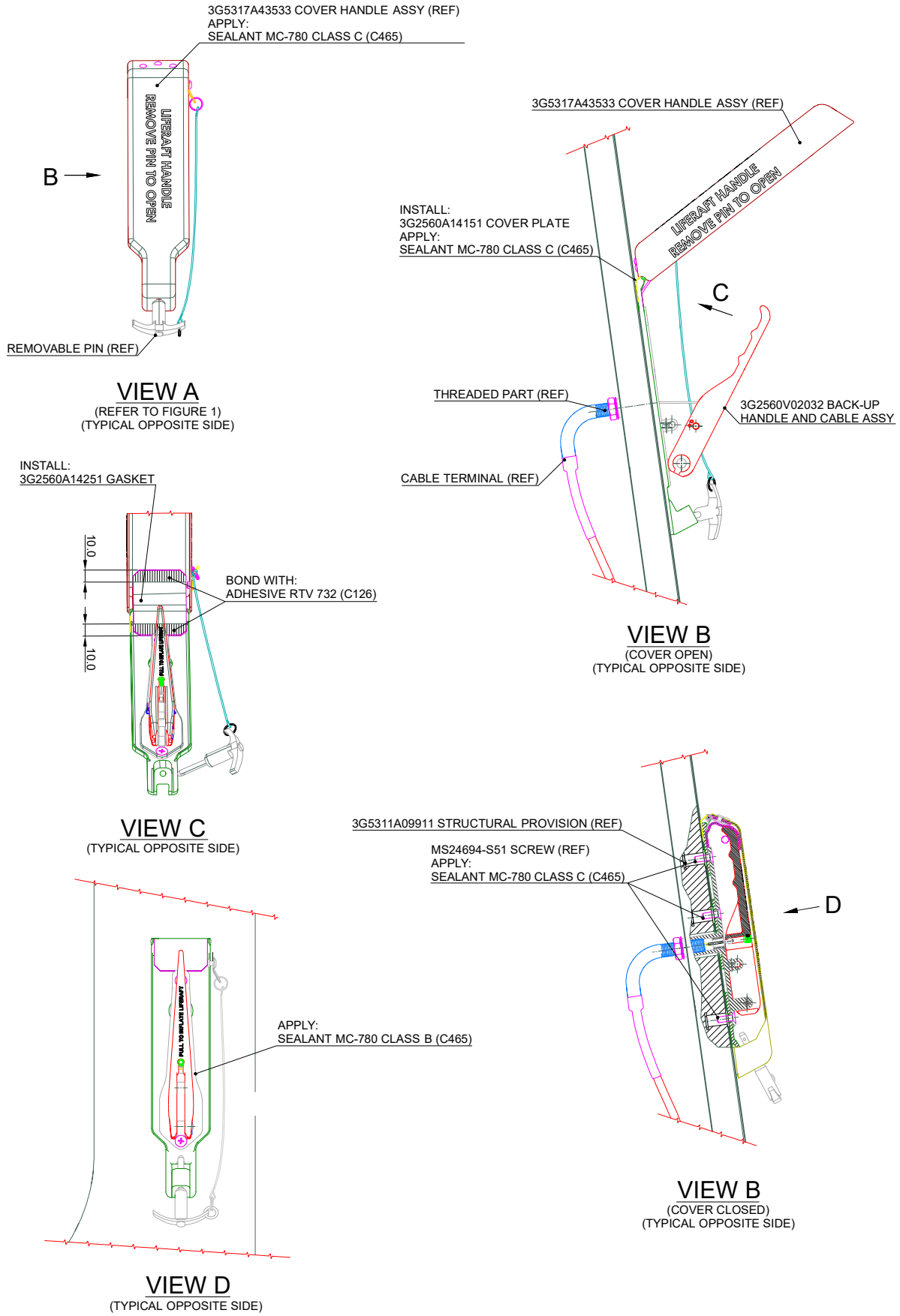


Figure 2

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SB 139-714 Rev. / – Inspection Report		
Date		
Helicopter	S/N	FH
Kit life raft installed	4G9560F00111 <input type="checkbox"/>	4G9560F00211 <input type="checkbox"/>
P/N 3G2560V02032 back-up handle and cable assy	Presence of water	
RH	YES <input type="checkbox"/>	NO <input type="checkbox"/>
LH	YES <input type="checkbox"/>	NO <input type="checkbox"/>
Notes:		
In case of presence of water inside the cable assy, this report must be accompanied by the relative photos		

Figure 3

Please send to the following address: LEONARDO S.p.A. CUSTOMER SUPPORT & SERVICES - ITALY PRODUCT SUPPORT ENGINEERING & LICENSES DEPT. Via Giovanni Agusta, 520 21017 Cascina Costa di Samarate (VA) - ITALY Tel.: +39 0331 225036 Fax: +39 0331 225988		SERVICE BULLETIN COMPLIANCE FORM		Date:
		Number:		
		Revision:		
Customer Name and Address:		Telephone:		
		Fax:		
		B.T. Compliance Date:		
Helicopter Model	S/N	Total Number	Total Hours	T.S.O.
Remarks:				
Information: We request your cooperation in filling this form, in order to keep out statistical data relevant to aircraft configuration up-to-date. The form should be filled in all its parts and sent to the above address or you can communicate the application also via Technical Bulletin Application Communication Section placed in Leonardo AW Customer Portal - MyCommunications Area. We thank you beforehand for the information given.				