



Interagency Aviation TECH BULLETIN



No. IATB 18-03

Date: August 27, 2018

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SUBJECT: Aerospace Filtration System (AFS) Engine Air Filter System – Possible Seal Failure

DISTRIBUTION: All Bell Medium Helicopter Operators

DISCUSSION: A recent incident involving engine power loss in a Bell Medium Helicopter due to foreign object debris (FOD) necessitated a mandatory inspection. Though it has not been determined what caused the FOD, an inspection of the aircraft revealed that one of the seals from the upper driveshaft cover was missing.

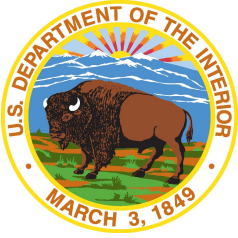
As a result of the incident described, the helicopter company completed a proactive inspection and discovered cracks in both upper and lower seals on the engine to transmission drive shaft cover. This was documented in SAFECOM ([18-0699](#)).

The USFS and DOI directed all contract Bell Medium Helicopters operators with Donaldson AFS filters installed to perform a onetime inspection of all filter seals. A letter was distributed to all affected vendors through the contracting officer as a means of immediate notification. The Technical Bulletin documents the inspection process required in accordance with AFS-BH205-IBF-ICA. If seals require replacement, parts and sealant called out in the AFS document must be used (see diagrams shown on pages 2 and 3). Contracted operators were required to complete this onetime inspection within 8 flight hours or one day (24 hours) of receipt of Contracting Officer notification. No operators reported discrepancies with the AFS field installation.

Results of the inspection and maintenance signoff was provided to the following aircraft inspectors;

- **USFS Contract:** [Ricky Howe](#), USFS Airworthiness Inspector
- **DOI Contract:** [Josh Chandler](#), OAS National Aviation Maintenance Specialist





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111030-Parts-List.xls

TITLE: ASSY - COVER, DRIVESHAFT, UPPER

REVISION: B

APPLICATION	
PART NUMBER	NEXT ASSY
-101	111000
-103	111002
***** END OF APPLICATION *****	

PARTS LIST						
QTY PER ASSEMBLY	PART NUMBER	PART NAME	MATERIAL	VENDOR	STATUS	NOTES
-103	-101	COVER ASSY				
	X	111030-101				
X	111030-103	COVER ASSY				
1	111031-201	COVER				
1	111032-201	WALL				
1	111032-203	WALL				
1	111033-201	SEAL				7
4	HC-83314-2LALBSS130-03	LATCH		NIELSEN SESSIONS		
3	MS21059L3	PLATENUT				
AR	AR	MS20470T4				
AR	AR	MS20426AD3				
AR	AR	MS20426AD4				
***** END OF PARTS LIST *****						

NOTES	
1	DIMENSIONING AND TOLERANCING BASED ON ASME Y14.5M-1994
2	ALL DIMENSIONS ARE IN INCHES
3	THIS DRAWING CONTAINS NO KEY CHARACTERISTICS
4	MATERIAL CERTIFICATION DOCUMENTS REQUIRED WITH PART
5	IDENTIFY PART WITH PART NUMBER PER MIL-STD-130, NO STEEL STAMP OR ETCHING
6	BREAK SHARP EDGES .015 - .030R
7*	CLEAN AND PREPARE MATING SURFACES OF PARTS FOR BONDING. APPLY DOW CORNING 1200 OR EQUIVALENT PRIMER TO NON-RUBBER BONDING SURFACES. BOND SEAL TO STRUCTURE USING MIL-A-46146 OR EQUIVALENT ADHESIVE/SEALANT.
8	INSTALL RIVETS PER MIL-R-47196
***** END OF NOTES *****	

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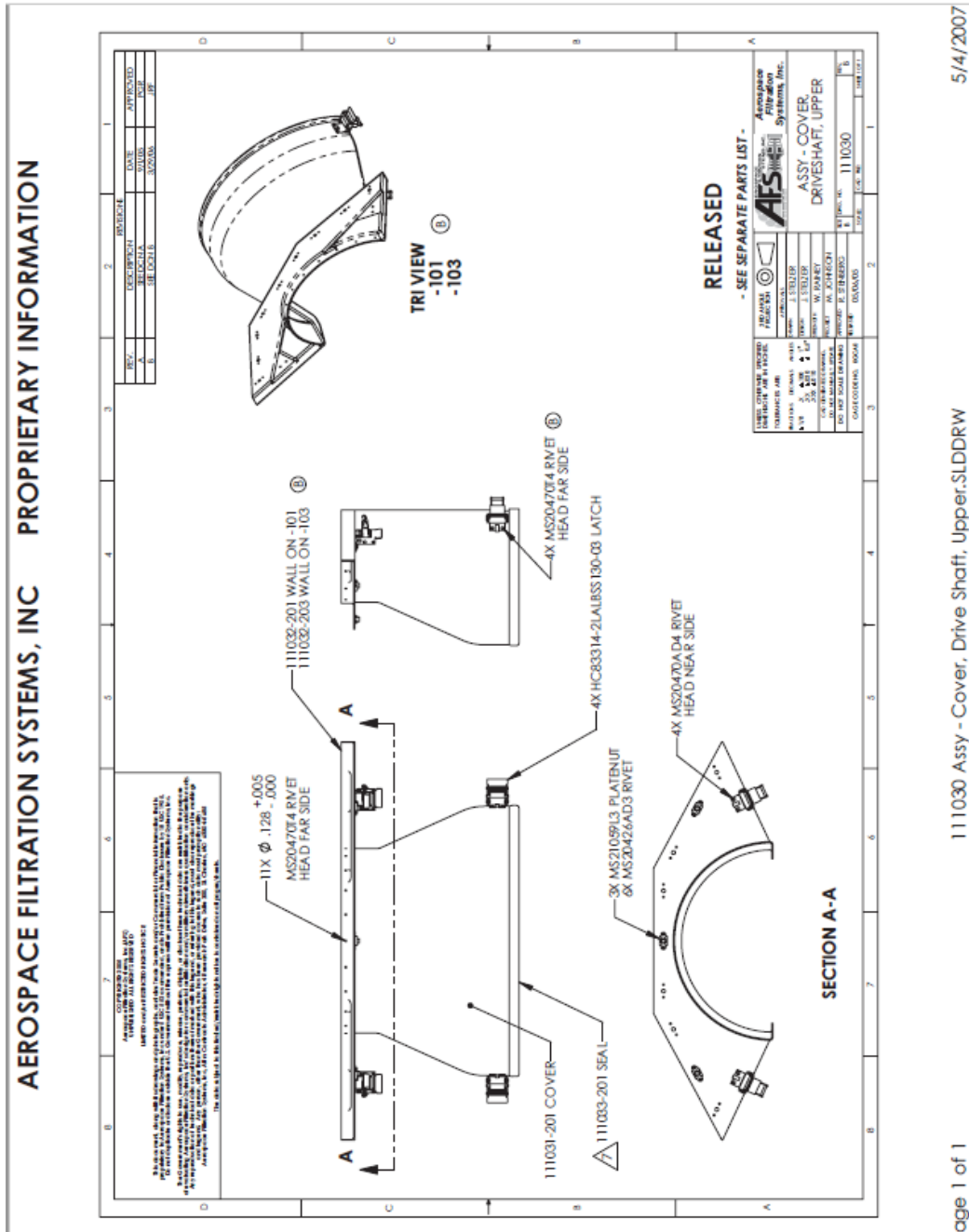
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/s/ Walker Craig

Chief, Division of Technical Services
Office of Aviation Services
U.S. Department of the Interior

/s/ John Nelson

Branch Chief, Airworthiness
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U.S.D.A Forest Service