SECTION: APPENDIX C
TYPE: DAILY AIRWORTHINESS CHECK
NOTE:

Instructions: The Daily Airworthiness Check will be completed and signed off I/A/W MHI GMM Chapter 2. Any discrepancies shall be entered into the aircraft log book a corrected prior to flight.

SECTION		
C 1	**FUSELAGE**	
1.1	Seat belts for general condition and security.	
1.2	Windshields for cleanliness and obvious damage.	
1.3	Pitot Tube and Static Ports for general condition and security.	
1.4	All doors and windows for general condition and security.	
1.5	Turn battery on and check;	
1.5.1	For exceedances and BIT test	
1.5.2	Caution warning segments	
1.5.3	Defog blowers for proper operation.	
1.6	Check the following exterior lighting for proper operation;	
1.6.1	Anti-collision	
1.6.2	Position	
1.6.3	Landing	
1.6.4	Pulse	
1.7	Turn battery off	
1.8	Life vest (If applicable);	
1.8.1	General condition and security	
1.8.2	Inspection due dates	
1.8.3	CO2 bottles for tightness	
1.8.4	Inflation valve locks for integrity.	
1.9	Life raft (if applicable) for general condition, security, and inspection due date.	
1.10	Interior of pilots and passenger compartments for proper storage of loose equipment, general cleanliness, and overall condition.	
1.11	Ensure sufficient quantities of passenger briefing cards are in the aircraft.	

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1.12	First Aid Kit for proper sealing and inspection due date.	
1.13	Survival Kit for proper sealing and inspection due date.	
1.14	Fire extinguisher for general condition, security, and inspection due date. Ensure safety pin is installed and secured in place with a safety tie.	
1.15	Fuselage exterior for general condition, security, and evidence of fuel or oil leaks.	
1.16	Battery compartment, battery, vent lines and electrical connectors for general condition and security.	
C 2	**LANDING GEAR**	
2.1	Landing gear attachment fittings for obvious damage and cracks	
2.2	Aft cross tube rocking beam for condition and wear pads for condition.	
2.3	Float covers (if applicable) for general condition and security.	
2.4	Float bottles (if applicable) for proper mounting, general condition, and security	
2.5	Float bottles (if applicable) for proper inflation pressure.	
2.6	*Check Dart basket assy, if installed*.	
C 3	**TAILBOOM**	
3.1	Tailboom exterior for dents, wrinkles, general condition, and security.	
3.2	Horizontal stabilizer, winglets and position lights for general condition and security.	
3.3	Horizontal stabilizer slat supports for cracks. **NOTE:** Pay particular attention to the radius of the support which attaches the support to the horizontal stabilizer.	
3.4	Tail rotor gearbox for evidence of oil leakage, general condition, and security.	
3.5	Tail rotor gearbox for proper oil level.	
3.6	Tail rotor hub and blade assembly for general condition and security, trunnion for delamination.	
3.7	Tail rotor support yield indications for minimum gap in accordance with Bell 407 Maintenance Manual. Replace tail rotor assembly if gap is below minimum.	

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3.8	Left side of tailboom for any indication of tail rotor contact with the tailboom.	
3.9	Vertical fin and anti-collision light for general condition and security.	
3.10	Visually inspect horizontal stabilizer leading edge slat supports for evidence of cracking. **Replace any slat supports found cracked before further flight.**	
C 4	**FUEL SYSTEM**	
4.1	Fuel cap for proper operation and that placard stating type and quantity of fuel to be used is present in area of fuel cap.	
4.2	Fuel samples to be checked on both fwd and aft fuel cells as follows:	
4.2.1	Fuel Boost Pumps – OFF	
4.2.2	Battery Switch – ON	
4.2.3	Fuel Valve Switch – OFF	
4.2.4	Fuel Drain button – Depress while using suitable container to collect, sample and check for visual moisture or other contaminates.	
4.2.5	Fuel Boost Pumps – ON	
4.2.6	Fuel Valve Switch – ON	
4.2.7	Airframe Fuel Filter Drain Valve – Open while using suitable container to collect, sample, and check for visual moisture or other contaminates.	
4.2.8	Check fuel filter bypass caution light.	
4.2.9	Fuel Boost Pumps – OFF	
4.2.10	Fuel Valve Switch – OFF	
4.2.11	Battery Switch – OFF	
C 5	**POWERPLANT**	
5.1	Oil cooler upper surface for obstructions, evidence of oil leakage, general condition, and security.	
5.2	Engine oil reservoir for general condition and security. Check for proper oil level.	
5.3	Engine area for evidence of oil or fuel leakage.	
5.4	Engine exhaust stack for cracks, general condition and security.	

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SECTION		
5.5	All engine lines and electrical wiring for general condition and security.	
5.6	Starter-generator, HMU, alternator, and bleed valve for general condition and security.	
5.7	#1 tail rotor drive shaft for condition and damage. Check fore and aft Thomas Coupling for cracks.	
5.8	CEFA for fuel filter or oil filter bypass condition.	
5.9	Engine assembly mounting for general condition and security.	
5.10	Check -	
5.10.1	KeFlex for visual damage:	
5.10.2	General condition of Kaflex drive shaft.	
5.10.3	For any broken, loose, and missing hardware **WARNING: <u>DO NOT</u> DISTURB OR TIGHTEN FLEX FRAME NUTS OR BOLTS. EVIDENCE OF TURNING FASTENERS BY WRENCH OR OTHER MEANS IS CAUSE FOR REJECTION**.	
5.11	Rotor brake for condition and security	
5.12	Compressor inlet for any obvious damage (FOD).	
C 6	**TRANSMISSION**	
6.1	Transmission for evidence of oil leaks and proper oil level.	
6.2	Oil filter by pass indicator for by-pass indication.	
6.3	Hydraulic lines and actuators for leakage.	
6.4	Balance springs for damage.	
6.5	Shock cords for condition.	
6.6	Hydraulic reservoir for proper oil level.	
6.7	Hydraulic filter indicator buttons for by-pass condition.	
6.8	Flight control tubes and bell cranks from servos to swash plate for obvious damage.	
6.9	Swash plate assembly for obvious damage and security of attached controls, boot for damage.	
6.10	Inspect the mast for corrosion in the area below the swashplate drive hub attachment and above the swashplate boot attachment.	

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6.11	Main rotor pitch change links for damage and security.	
6.12	Main rotor hub and blade assembly for condition and obvious damage	
6.13	Inspect all main rotor head bearings for general condition and security.	
6.14	ECU, mounted on the transmission deck for condition and security, all canon plugs and wiring for condition.	
6.15	Verify the atmospheric vent (canon plug side of ECU) is not blocked or obstructed in any way. **BLOCKAGE OR OBSTRUCTION WILL CAUSE FADEC FAILURE**	
C 7	**POST INSPECTION**	
7.1	Review aircraft computer status sheet and logbook for upcoming maintenance	
7.2	Comply with items due during the next eight hours, next calendar day or during the aircraft cycles predicted for the next flight day.	
7.3	Check -	
7.3.1	Condition and security of all cowling and access panels, all secure.	
7.3.2	Accuracy of aircraft time in logbook	
7.3.3	Addition	
7.3.4	Verify correct hour meter time recorded, compare hour meter time to aircraft time.	
7.3.5	Verify correct entry on to input sheet.	
7.3.6	If a power check was completed, enter it in the aircrafts Trend Chart	