

AIRWORTHINESS LIMITATIONS

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NOTE: The entire airframe must be removed from service at or before the end of the validated life at 66,000 flight Hours, or 312,000 Flight Cycles, whichever occurs first.

AIRFRAME

A.1 Compliance of all Airworthiness Inspections must be completed by the limits specified in the below table. Each inspection shall be entered either in a work order or the aircraft log book as appropriate and remain a permanent record until repeated.

A.2 The appropriate maintenance manual shall be referenced when performing each event.

TASK	ITEM DESCRIPTION	EFFECTIVITY/ CONFIGURATION	AIRWORTHINESS LIMITATIONS				ACTION NOTES
			SAFE LIFE LIMIT EXCEPTIONS FROM AIRFRAME LIMIT	MODIFICATION LIMIT	INSPECTION OR OVERHAUL		
					INITIAL	REPEAT	
32 – FLIGHT CONTROLS							
27-002	Elevator and Rudder Primary Flight Control Cables	Landplanes	60 Months	-	-	-	Replace
27-004	Elevator and Rudder Primary Flight Control Cables below Baggage Floor	All Configurations If spillage occurs when operating with corrosive cargo	Within 2 Months of spillage	-	-	-	Replace
27-006	Aileron Primary Flight Control Cables	All Configurations	60 Months	-	-	-	Replace
27-007	Elevator and Rudder Cable Pulleys at Sta 270.3	All Configurations	60 Months	-	-	-	Replace
32 – LANDING GEAR							
32-001	Main Landing Gear Leg	All Configurations with New Main Landing Gear Leg with No Previous Overhaul and No Previous Repair	Safe Life Limit Not Applicable	-	24,000 Landings or 120 Months whichever occurs first	-	Remove Overhaul in accordance with TB V6/00063 Rev. NC or later
32-002	Main Landing Gear Leg	All Configurations with Previous Overhaul or Previous Repair	Safe Life Limit Not Applicable	-		7,000 Landings or 60 Months whichever occurs first	Remove Overhaul in accordance with TB V6/00063 Rev. NC or later

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			SAFE LIFE LIMIT EXCEPTIONS FROM AIRFRAME LIMIT	MODIFICATION LIMIT	INSPECTION OR OVERHAUL		
					INITIAL	REPEAT	
53 – FUSELAGE							
53-005	Fuselage Frame Assembly, Sta. 218.8, Part No. C6FSM2582–1	Post Mod 6/1173	-	39,000 Flight Hours or 78,000 Flight Cycles whichever occurs first	-	-	Remove this frame assembly from service and replace with a new assembly C6MK1553–1 or –3 Incorporating Mod 6/1553 (Refer to SB 6/354)
53 – FUSELAGE (Cont'd)							
53-006	Fuselage Frame Assembly, Sta. 239	All Configurations	-	-	1,200 Flight Hours or 12 Months whichever occurs first	Every 1,200 Flight Hours or 12 Months whichever occurs first	If cracks are within limits in accordance with SB 6/521 Rev. C or later, inspect every 600 Flight Hours or 6 Months whichever occurs first. Replace or repair if cracks are out of limits.
54 – NACELLES							
54-002	Engine Nacelle Structure	All Configurations	-	-	3,000 Flight Hours or 6,000 Flight Cycles whichever occurs first	Every 3,000 Flight Hours or 6,000 Flight Cycles whichever occurs first	Inspect the left side of each nacelle structure (Refer to PSM 1-6-7 Part 3)
54-009	Engine Nacelle Lower Longerons	Aircraft that are not addressed by 54-003 through 54-008	-	-	400 Flight Hours	Every 400 Flight Hours	Inspect lower longerons for buckles or cracks on each nacelle structure (Refer to SB 6/509)
54-010	Engine Nacelle Lower Longerons	All Configurations After Hard Landing	-	-	Immediate	Immediate	Inspect lower longerons for buckles or cracks on each nacelle structure (Refer to SB 6/509)

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			SAFE LIFE LIMIT EXCEPTIONS FROM AIRFRAME LIMIT	MODIFICATION LIMIT	INSPECTION OR OVERHAUL		
					INITIAL	REPEAT	
57 – WINGS							
57-026	Wing Assembly C6W1001–33, –35, & subsequent Wing Box C6W1002–67, –69, & subsequent	Post Mod 6/1117 and Pre Mod 6/1630 and Pre Mod 6/1318	-	12,000 Flight Hours or 24,000 Flight Cycles	-	-	Incorporate Mod 6/1318 (Refer to SB 6/268)
57-027	Wing Assembly C6W1001–33, –35, & subsequent Wing Box C6W1002–67, –69, & subsequent	Post Mod 6/1117 and Pre Mod 6/1630 and Pre Mod 6/1318	-	-	12,000 Flight Hours or 24,000 Flight Cycles whichever occurs first	Every 1,200 Flight Hours or 2,400 Flight Cycles whichever occurs first	Inspect Main Spar at Station 152.8 (Refer to PSM 1-6-7 Part 3)
57 – WINGS (Cont'd)							
57-029	Wing Assembly C6W1001–33, –35, & subsequent Wing Box C6W1002–67, –69, & subsequent	Post Mod 6/1117 and Pre Mod 6/1630	33,000 Flight Hours or 66,000 Flight Cycles whichever occurs first	-	-	-	Incorporate Mod 6/1630 to extend service life (Refer to SB 6/362)
57-030	C6W1002– Replacement Box (Replaces 67, –69, & subsequent	Post Mod 6/1117 and when installed into C6W1001 as part of Mod 6/1630 and Pre Mod 6/1318	-	12,000 Flight Hours or 24,000 Flight Cycles	-	-	Incorporate Mod 6/1318 (Refer to SB 6/268)
57-031	C6W1002– Replacement Box (Replaces 67, –69, & subsequent	Post Mod 6/1117 and when installed into C6W1001 as part of Mod 6/1630	-	-	12,000 Flight Hours or 24,000 Flight Cycles whichever occurs first	Every 1,200 Flight Hours or 2,400 Flight Cycles whichever occurs first	Inspect Main Spar at Sta. 152.8 (Refer to PSM 1-6-7 Part 3)
57-032	C6W1002– Replacement Box (Replaces 67, –69, & subsequent	Post Mod 6/1117 and when installed into C6W1001 as part of Mod 6/1630	-	-	24,000 Flight Hours or 48,000 Flight Cycles whichever occurs first	Every 1,200 Flight Hours or 2,400 Flight Cycles whichever occurs first	Inspect Lwr Skin at WS185, Lwr Wing Skin, Stringers and Aft Spar Lwr Flange from WS122 to WS263 (ribs 8 to 20) (Refer to PSM 1-6-7 Part 3)
57-033	Wing Assembly C6W1001–33, –35 & subsequent	Post Mod 6/1117 and Post Mod 6/1630	66,000 Flight Hours or 132,000 Flight Cycles whichever occurs first	-	-	-	-

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			SAFE LIFE LIMIT EXCEPTIONS FROM AIRFRAME LIMIT	MODIFICATION LIMIT	INSPECTION OR OVERHAUL		
					INITIAL	REPEAT	
57 – WINGS (Cont'd)							
57-037	Wing Strut Assembly C6W1005–9, –10 Link Assembly C6WM1409–1, –3	Post Mod 6/1172 and Post Mod 6/1174	36,000 Flight Hours or 72,000 Flight Cycles whichever occurs first	-	-	-	Remove these wing strut and link assemblies, including all attachment bolts, from service and replace with new parts C6W1005–9, and –10 (strut), C6WM1409–3 (link), and attachment bolts C6WM1411–27 (one per strut) and –29 (two per strut)
57-038	Wing Flap Hinge Arm Attachment Fittings at Wing Sta. 97.5	Landplanes and Floatplanes that have been used in Landplane configuration	-	-	31,800 Flight Hours or 63,600 Flight Cycles whichever occurs first	Every 2,400 Flight Hours or 4,800 Flight Cycles whichever occurs first	Inspections of the lower attachment fittings C6W1045 (Refer to PSM 1-6-7)
57-041	Wing Upper Surface Inspection for Disbonding	All Configurations	-	-	20 years	Every 5 years	As per SB V6/0018

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POWERPLANT

PT6A-34				
Part Number	ITEM DESCRIPTION	Time Before Overhaul (TBO)	Service Life Limit Cycles	Notes
3031700	Hot End Inspection HSI	2000 Hours*		*Inspection Only
3031700	Hot End Inspection HSI	4000 Hours		
3019712	Power Turbine Disk		20000	
3013111	Compressor Hub (1 st Stage)		19000	
3013712	Compressor Disk (2 nd Stage)		24000	
3011713	Compressor Disk (3 rd Stage)		25000	
3033292	Impeller		19000	
3013411	Compressor Turbine Disk		16000	

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POWERPLANT (Cont'd)

PT6A-34				
	ITEM DESCRIPTION	Time Before Overhaul (TBO)		
	Fuel Control Unit (FCU)	4500		
	Fuel Heater	4500		
	Propeller Governor	4500		
	Ignition Exciter	4500		
	Compressor Bleed Valve	4500		
	Flow Divider/Starting Control Installation	4500		
	Fuel Pump (Argo-Tech only)	4500		
	Fuel Pump (Hamilton Sundstrand)	4000		