Transport Canada / Transports Canada

CERTIFICATE OF AIRWORTHINESS / CERTIFICAT DE NAVIGABILITÉ

1. Nationality and Registration Marks / Marques de nationalité et d'immatriculation	2. Aircraft Manufacturer and Model / Constructeur et modèle de l'aéronef	3. Aircraft Serial Number / Numéro de série de l'aéronef	4. Type Certificate and Category / Certificat de type et catégorie
C-GPJT	Bell Helicopter TEXTRON A Division of Textron Canada Ltd 407	53137	H-92 Normal Rotorcraft

5. This Certificate of Airworthiness is issued pursuant to the *Aeronautics Act* and certifies that, as of the date of issuance, the aircraft in respect of which it was issued has been inspected and found to conform to the type certificate therefor, to be in a condition for safe operation, and has been shown to meet the comprehensive and detailed airworthiness requirements referred to in Annex 8 to the Convention on International Civil Aviation.

5. Le présent certificat de navigabilité est délivré en vertu de la *Loi sur l'aéronautique* et certifie qu'à la date de délivrance dudit certificat, l'aéronef visé par ce certificat a été inspecté, est conforme à son certificat de type, est apte à voler en toute sécurité et a démontré qu'il satisfait aux exigences du code de navigabilité complet et détaillé tel que décrit à l'Annexe 8 de la Convention relative à l'aviation civile internationale.

6. The aircraft identified above shall be maintained and certified in accordance with the applicable requirements of the *Canadian Aviation Regulations*.

6. L'aéronef ci-haut mentionné est entretenu et certifié conformément aux exigences pertinentes du *Règlement de l'aviation canadien*.

7. This Certificate shall remain in force until suspended or cancelled in accordance with the *Aeronautics Act*.

7. Le présent certificat reste en vigueur à moins qu'il n'y ait suspension ou annulation conformément à la *Loi sur l'aéronautique*.

8. In respect of the noise emission levels specified in Chapter 516 of the *Airworthiness Manual* this aircraft:

8. En vertu des normes d'émission de bruit décrites au chapitre 516 du *Manuel de navigabilité*, l'aéronef mentionné :

☑ complies with the requirements specified below / satisfait aux exigences précisées ci-dessous

☐ is not required to comply / n'est pas obligé de satisfaire aux exigences

ICAO Annex 16, Volume 1, Chapter 11

2020-05-22 — G. Stanhope — MD-M 0541

Date of Issue (yyyy-mm-dd) / Date de délivrance (aaaa-mm-jj)

For the Minister of Transport - Pour le ministre des Transports

Seal / Sceau

Canada

24-0073 (0710-04)

APPENDIX A COMPONENT STATUS

Date:	3-Jun-20	Serial No:	53137
AFTT:	2301.6	Tail No:	C-GPJT
RIN's:	6865	Model:	407

									PERCENT REM TO	
ATA	DESCRIPTION	PART NO	SERIAL NO	FREQ	UNIT	CODE	CURRENT	REMAINING	RL	O/H-INS
240100	STARTER GENERATOR	23081-018	92021	1000	H	OH	550.5	449.5		45%
290010	HYDRAULIC CYLINDER ASSY	206-076-062-107	0	0	0	OC	2301.6	N/A		N/A
290020	HYDRAULIC CYLINDER ASSY	206-076-062-107	0	0	0	OC	2301.6	N/A		N/A
290030	HYDRAULIC CYLINDER ASSY	206-076-062-107	0	0	0	OC	2301.6	N/A		N/A
290040	HYDRAULIC CYLINDER ASSY	206-076-062-105	0	0	0	OC	2301.6	N/A		N/A
320100	FORWARD CROSSTUBE (AAI)	407-704-007-119	0	5000	RIN	RL	0	5000	100%	
320200	AFT CROSSTUBE (AAI)	407-725-106	1040	5000	RIN	RL	0	5000	100%	
530000	TAILBOOM ASSY	407-530-014-101	53137	5528.7	H	RL	2301.6	2698.4	49%	
620010	M/R BLADE	407-015-001-127FM	A-764	0	0	OC	333.8	N/A		N/A
620020	M/R BLADE	407-015-001-127FM	A-790	0	0	OC	333.8	N/A		N/A
620030	M/R BLADE	407-015-001-127FM	A-753	0	0	OC	333.8	N/A		N/A
620040	M/R BLADE	407-015-001-127FM	A-761	0	0	OC	333.8	N/A		N/A
620100	**M/R HUB ASSY**	**407-010-100-111**	**A-151**	2500	H	OH	0.0	2500.0		100%
620101	YOKE	407-010-101-101	A-160	2500	H	OH	0.0	2500.0		100%
620102	**UPPER PLATE**	**406-010-115-127**	AZ3129	2500	H	RL	0.0	2500.0	100%	
620103	LOWER PLATE	406-010-117-125	AZ2977	2500	H	RL	0.0	2500.0	100%	
620104	GRIP	406-010-108-131	LP3800	5000	H	RL	1051.6	3948.4	79%	
620105	GRIP	**406-010-108-131**	**LP3757**	**5000**	**H**	**RL**	**1051.6**	**3948.4**	**79%**	
620106	GRIP	406-010-108-131	LP3784	5000	H	RL	1051.6	3948.4	79%	
620107	GRIP	406-010-108-131	LP3795	5000	H	RL	1051.6	3948.4	79%	
620108	PITCH HORN	407-010-103-101	A-657	2500	H	OH	0.0	2500.0		100%
620109	PITCH HORN	407-010-103-101	A-646	2500	H	OH	0.0	2500.0		100%
620110	PITCH HORN	407-010-103-101	A-669	2500	H	OH	0.0	2500.0		100%
620111	PITCH HORN	407-010-103-101	A-656	2500	H	OH	0.0	2500.0		100%
620112	Drive Ring Set	406-010-126-107	A-1009	100000	RIN	RL	6865	93135	93%	
621000	**SWASHPLATE & SUPPORT ASSY**	**406-010-401-115**	**A-717**	2500	H	OH	0.0	2500.0		100%
621001	SWASHPLATE OUTER RING	406-010-411-117	A-1303	2500	H	OH	0.0	2500.0		100%
621002	SWASHPLATE INNER RING	406-010-410-121	A-1300	2500	H	OH	0.0	2500.0		100%
621003	SUPPORT	406-010-406-119	A-1083	2500	H	OH	0.0	2500.0		100%
621004	SLEEVE	406-010-409-107	A-1140	2500	H	OH	0.0	2500.0		100%
621005	COLLECTIVE LEVER	406-010-408-101	A-FS1030	2500	H	OH	0.0	2500.0		100%
621006	IDLER LINK	406-010-407-101	A-FS966	2500	H	OH	0.0	2500.0		100%
621007	ANTI DRIVE LINK	406-010-432-101	A-FS876	5000	H	RL	2301.6	2698.4		54%
621008	ANTI DRIVE LEVER	406-010-431-109	A-1157	5000	H	RL	2301.6	2698.4		54%
621010	PITCH LINK ASSY	406-010-413-117	A-4936	5000	H	INS	2301.6	2698.4		54%
621011	PITCH LINK TUBE	406-010-413-119	A-4548	5000	H	INS	2301.6	2698.4		54%
621012	CLEVIS	406-010-416-101	REFS563	5000	H	RL	2301.6	2698.4	54%	
621014	ROD END BEARING	406-310-404-101	NH20836	5000	H	RL	297.1	4702.9	94%	
621020	PITCH LINK ASSY	406-010-413-117	A-4938	5000	H	INS	2301.6	2698.4		54%
621021	PITCH LINK TUBE	406-010-413-119	A-4555	5000	H	INS	2301.6	2698.4		54%
621022	CLEVIS	406-010-416-101	TY1391	5000	H	RL	2301.6	2698.4	54%	
621024	ROD END BEARING	406-310-404-101	NH20838	5000	H	RL	297.1	4702.9	94%	
621030	PITCH LINK ASSY	406-010-413-117	A-4922	5000	H	INS	2301.6	2698.4		54%
621031	PITCH LINK TUBE	406-010-413-119	A-4552	5000	H	INS	2301.6	2698.4		54%
621032	CLEVIS	406-010-416-101	TY1219	5000	H	RL	2301.6	2698.4	54%	
621034	ROD END BEARING	406-310-404-101	NH20502	5000	H	RL	297.1	4702.9	94%	
621040	PITCH LINK ASSY	406-010-413-117	A-4939	5000	H	INS	2301.6	2698.4		54%
621041	PITCH LINK TUBE	406-010-413-119	A-4550	5000	H	INS	2301.6	2698.4		54%
621042	CLEVIS	406-010-416-101	TY1326	5000	H	RL	2301.6	2698.4	54%	
621044	ROD END BEARING	406-310-404-101	NH20846	5000	H	RL	297.1	4702.9	94%	
621060	CYCLIC LONG. BELLCRANK	407-001-526-105	TE134	5000	H	RL	2301.6	2698.4	54%	
621061	CYCLIC LAT. BELLCRANK	407-001-528-101	TE4	5000	H	RL	2301.6	2698.4	54%	
621062	COLLECTIVE BELLCRANK	407-001-524-105	TI-129	5000	H	RL	2301.6	2698.4	54%	
621063	BELLCRANK SUPPORT	407-001-511-101	RE143	5000	H	RL	2301.6	2698.4	54%	

APPENDIX A COMPONENT STATUS

Date:	3-Jun-20	Serial No:	53137
AFTT:	2301.6	Tail No:	C-GPJT
RIN's:	6865	Model:	407

ATA	DESCRIPTION	PART NO	SERIAL NO	FREQ	UNIT	CODE	CURRENT	REMAINING	PERCENT REM TO RL	PERCENT REM TO O/H-INS
630000	M/R MAST ASSY	407-040-011-105	53137	2500	H	OH	406.4	2093.6		84%
630010	60 Month Interim Inspection Per Table 5-4			60	MO	INS	Apr-25	60		100%
630050	M/R MAST POLE	407-040-038-109R	A-991	5000	H	RL	2725.7	2274.3	45%	
	RIN Limit per BHT-407-MM Ch. 4			18000	RIN	RL	7939.0	10061.0	56%	
630100	TRANSMISSION ASSY	407-040-006-107	A-146	4500	H	OH	2301.6	2198.4		49%
630100	60 Month Interim Inspection Per Table 5-4			60	MO	INS	May-25	60		100%
630200	L/H PYLON BEAM	407-010-201-105	TI1429	5000	H	RL	1343.0	3657.0	73%	
	RIN Limit per BHT-407-MM Ch. 4			17000	RIN	RL	3642	13358	79%	
630210	R/H PYLON BEAM	407-010-203-105	TI1318	5000	H	RL	1343.0	3657.0	73%	
	RIN Limit per BHT-407-MM Ch. 4			17000	RIN	RL	3642	13358	79%	
630220	PYLON RESTRAINT SPRING	407-010-206-103	BP2414	5000	H	RL	1752.7	3247.3	65%	
630230	PYLON RESTRAINT SPRING	407-010-206-103	8720	5000	H	RL	2301.6	2698.4	54%	
630201	ROTOR BRAKE CALIPER	206-340-301-103	613	1800	H	OH	550.5	1249.5		69%
630202	ROTOR BRAKE CALIPER	206-340-301-103	612	1800	H	OH	550.5	1249.5		69%
630203	ROTOR BRAKE DISC	206-340-301-101	302	3000	H	OH	2301.6	698.4		23%
630300	FREEWHEEL ASSY	406-040-500-123	A-3815	3000	H	OH	2301.6	698.4		23%
630310	60 Month Interim Inspection Per Table 5-4			60	MO	INS	Apr-25	60		100%
630400	INPUT DRIVESHAFT	206-340-300-107	KC1480	1250	H	OH	406.4	843.6		67%
630405				5000	H	RL	4067.9	932.1		19%
640000	T/R BLADE	406-016-100-119	A-1755	0	0	OC	2301.6	N/A		N/A
640010	T/R BLADE	406-016-100-119	A-1735	0	0	OC	2301.6	N/A		N/A
640100	T/R HUB ASSY	407-012-101-107	A-187	2500	H	OH	2301.6	2500.0		100%
640110	T/R YOKE	406-012-102-109	A-FS1221	5000	H	RL	2301.6	2698.4	54%	
652100	T/R GEARBOX	406-040-400-117FM	A-775	5000	H	OH	2301.6	2500.0		50%
652110	60 Month Interim Inspection Per Table 5-4			60	MO	INS	Apr-25	60		100%
710000	ENGINE ASSY (250-C47B)	23063392	CAE-847156	0	0	OC	2301.6	N/A		N/A
711000	COMPRESSOR	23065593	CAC-44223	2000	H	INS	406.4	1593.6	80%	80%
711020	IMPELLER	23065591	QB98365	7500	H	RL	2301.6	5198.4	69%	
				15000	CYC	RL	4069.0	10931.0	73%	
712000	TURBINE	23063354	CAT-44227	2000	H	OH	686.3	1313.7		66%
712010	1st STAGE WHEEL	M250-10227	X612489	2025	H	RL	686.3	1338.7	66%	
				3000	CYC	RL	1075.0	1925.0	64%	
712020	2nd STAGEWHEEL	M250-10658	X623549	2025	H	RL	686.3	1338.7	66%	
				3000	CYC	RL	1075.0	1925.0	64%	
712030	3rd STAGE WHEEL	6898663	X577599	4550	H	RL	1347.4	3202.6	70%	
				6000	CYC	RL	2289.0	3711.0	62%	
712040	4th STAGE WHEEL	23066744	X570969	4550	H	RL	1347.4	3202.6	70%	
				6000	CYC	RL	2289.0	3711.0	62%	
713000	GEARBOX	23063393	CAG-47156	0	0	OC	2301.6	N/A		N/A
730000	HYDROMECHANICAL UNIT (HMU)	23078029A	JGALM1133	2500	H	OH	0.0	2500.0		100%
730010	FUEL NOZZLE	M250-10604	TBD	2000	H	OH	0.0	2000.0		100%
750000	BLEED VALVE	23073353	FF57375	1500	H	OH	831.7	668.3		45%

Equipment List

Aircraft Registration: C-GPJT
Aircraft Type: Bell 407
Serial Number: 53137

Amendment: 0
Date of Amendment : 21-May-2020

Cabin Configuration: Corporate - 5 Passenger

Description	Part Number	Weight lbs.	Long Arm inches	Lateral Arm inches	Installed @ Weigh	Out @ Weigh
Standard Equipment						
Cabin Fire Extinguisher		25.9 OZ	80.00	0.00	X	
First Aid Kit		1.10	146.00	-17.00	X	
Flight Manual	BHT-407-FM-1	2.20	146.00	17.00	X	
Avionics Equipment						
VHF Comm					X	
Transceiver	KY 196B	2.80	48.75	0.00	X	
Antenna		1.87	245.00	0.00	X	
VHF Nav / Comm					X	
Transceiver / Navigation Receiver	KX 165A	4.00	48.75	0.00	X	
Antenna		1.87	271.00	0.00	X	
Antenna		1.60	204.00	0.00	X	
ADF System					X	
Receiver	KR 87	2.90	50.25	0.00	X	
Indicator	KI 227	0.70	50.25	0.00	X	
Antenna		2.40	182.00	0.00	X	
Transponder System					X	
Transponder	KT 71	3.90	49.75	0.00	X	
Altitude Reporter	AR 850	0.70	49.75	0.00	X	
Antenna		0.75	64.25	7.00	X	
Compass System	KCS 55				X	
Indicator	KI 525	3.94	42.00	6.50	X	
Slaving Accessory	KA 51	0.20	42.00	6.50	X	
Transmitter	KMT 112	0.30	42.00	6.50	X	
Directional Gyro	KG 102	4.30	42.00	3.00	X	
GPS System					X	
Receiver	KLN 89B	2.55	43.25	0.00	X	
Antenna		0.50	87.00	2.50	X	
Audio Panel	KMA 24H	1.70	44.25	0.00	X	
Attitude Indicator	504-0045-904	3.00	42.00	6.50	X	
Turn and Slip Indicator	206-070-274-101	1.50	42.00	9.50	X	
Modifications						
Aeronautical Accessories Cabin Floor Protectors - Pilot and Copilot	407-451-131 / 132	2.90	44.00	0.00	X	
Aeronautical Accessories Cabin Floor Protectors - Passenger	407-452-121	5.40	111.40	0.00	X	
Aeronautical Accessories Door Opener Kit - Crew Doors - LH and RH	407-511-103	2.80	43.60	0.00	X	
Aeronautical Accessories Door Opener Kit - Passenger Doors - LH and RH	407-512-103	2.80	103.90	0.00	X	
Aeronautical Accessories Door Opener Kit - Baggage Door	206-510-213	1.00	155.00	-21.75	X	
Aeronautical Accessories Folding Maintenance Step - LH	407-536-101	2.00	145.18	-28.00	X	
Aeronautical Accessories Nightscanner	099-798-903	9.00	52.90	0.00	X	
Aeronautical Accessones Spacemaker Kit	407-460-001	5.00	192.00	0.00	X	
Aeronautical Accessones Step Handle - LH	407-532-101	1.00	137.88	-18.50	X	
Air Comm Bleed Air Heater - Engine Kit	407H-500	3.80	153.00	0.00	X	
Air Comm Bleed Air Heater - Standard Kit	407H-200	14.90	69.87	0.00	X	
Air Comm Bleed Air Heater - Optional Chin Bubble Defroster	407H-988	0.60	84.75	0.00	X	
BHT 28 Amp Battery	407-706-004-101	61.30	15.80	1.00	X	
BHT Auxillary Fuel Tank	407-706-011-103	30.60	159.50	-1.10	X	
BHT Auxillary Fuel Tank Kit - Provisions	407-706-011-101	4.20	158.20	4.80	X	
BHT Dual Controls - Quick Disconnect Kit	407-706-702-101	10.80	49.40	-13.50	X	
BHT Fire Detection System Kit	407-706-015-101	2.00	135.50	2.60	X	
BHT Particle Separator	206-706-212-119	13.20	141.80	1.00	X	
BHT Passenger Door Sliding Window - LH and RH	407-706-301-103	2.50	116.00	0.00	X	
BHT Rotor Brake Kit	206-706-502-103	10.10	120.90	0.00	X	
Bristow / Magellan Wire Strike Kit - High Skid Gear	965-37401-001	120.90	39.20	0.00	X	

Equipment List

Aircraft Registration: C-GPJT
Aircraft Type: Bell 407
Serial Number: 53137

Amendment: 0
Date of Amendment : 21-May-2020

Cabin Configuration: Corporate - 5 Passenger

Description	Part Number	Weight lbs.	Long Arm inches	Lateral Arm inches	Installed @ Weigh	Out @ Weigh
Landing Gear						
BHT High Skid Gear	407-706-007-101	86.60	115.00	0.00	X	
Aeronautical Accessories Flite Step Kit - LH and RH	407-326-003	29.00	113.50	0.00	X	

ACTUAL WEIGHT RECORD - BELL HELICOPTER MODEL 407

Date Weighed: 21-May-20 Reg. # C-GPJT Serial #: 53137

Weigh Scale Model: 920i-5A Serial #: 1429000037 Calibration Date: 08-Jan-20

Scale Readings (lbs)					Scale	Tare	Net
L/H Fwd. Jackpoint	F.S.	55.16	B.L.	-16.82	667	0	667
R/H Fwd. Jackpoint	F.S.	55.16	B.L.	16.82	696	0	696
Aft Jackpoint	F.S.	204.92	B.L.	0	1496	0	1496
				Total	**2859**	**0**	**2859**

* (in lateral calculations, - is left, + is right)

Longitudinal C.G., as weighed

$$CG = \frac{[\text{Fwd FS} \times (\text{LH weight} + \text{RH weight})] + [\text{Aft FS} \times (\text{Aft weight})]}{\text{Total weight}}$$

C.G. = 133.52 inches

Lateral C.G., as weighted*

$$CG = \frac{(\text{Fwd LBLxLH weight}) + (\text{Fwd RBLxRH weight})}{\text{Total weight}}$$

C.G. = 0.17 inches

			LONGITUDINAL		LATERAL	
Weight Empty Derivation		**Weight**	**Arm**	**Moment**	**Arm**	**Moment**
As Weighed:		2,859.00	133.52	381,743.40	0.17	487.78
Remove:	Engine Oil	-13.00	205.00	-2,665.00	0.00	0.00
	Undrainable Fuel	-4.70	110.60	-519.82	0.00	0.00
	Plumb Bob	-0.30	170.10	-51.03	-8.40	2.52
Add:	Unusable Fuel	18.00	114.60	2,062.80	0.00	0.00
	Ballast (LH)	24.00	15.60	374.40	-2.50	-60.00
	Ballast (RH)	24.00	15.60	374.40	4.50	108.000
Operating Weight Empty		**2,907.00**	**131.17**	**381,319.15**	**0.19**	**538.30**
Weight Empty		2,907.00	131.17	381,319.15	0.19	538.30
+ Pilot		170.00	65.00	11,050.00	14.00	2,380.00
+ Passenger, (1) Fwd		170.00	65.00	11,050.00	-11.10	-1,887.00
+ Passengers (2) Mid		340.00	91.00	30,940.00	1.30	442.00
+ Oil, Engine		13.00	205.00	2,665.00	0.00	0.00
+Fuel, Most Fwd (74.5 Gal) JP-5		506.60	116.00	58,765.60	0.00	0.00
Most Forward C.G.		**4,106.60**	**120.73**	**495,789.75**	**0.36**	**1,473.30**
Weight Empty		2,907.00	131.17	381,319.15	0.19	538.30
+ Pilot		170.00	65.00	11,050.00	14.00	2,380.00
+ Oil, Engine		13.00	205.00	2,665.00	0.00	0.00
+ Fuel (146.9 gal.) JP-5		998.90	132.00	131,854.80	0.00	0.00
Most Aft C.G.		**4,088.90**	**128.86**	**526,888.95**	**0.71**	**2,918.30**

The described Maintenance has been performed in accordance with the applicable Airworthiness Requirements.

Signature

Major Modification or Major Repair Report

INSTRUCTIONS

For instructions see Standard 571 Appendix L

1. Aircraft	**Make** Bell Helicopter Textron		**Model** 407
	Serial No 53137		
2. Owner	**Name** Tempest Aviation Group Inc.		**Registration Marks** C-GPJT

3. Type of Work

Modification [X] Repair [ ]

4. Name and address of person or organization who accomplished the repair or modification

Tempest Aviation Group Inc.
2092 Enterprise Way - # 100
Kelowna, BC V1Y 6H7

AMO 96-02

5. Description of work accomplished

The following Major Modifications were embodied at the time of importation

Bristow Wire Strike Protection System	STC SH96-58
AAI Automatic Door Openers Crew and Passenger Doors	STC SH96-56
AAI Flite Steps	STC SH96-55
Air Comm Cabin Bleed Air Heat System	STC SH96-64
Air Comm Cabin Bleed Air Heat System	STC SH96-63
AAI Cabin Floor Protectors	STC SH96-54
AAI Folding Maintenance Step	STC SH96-51
AAI Improved Hover Performance	STC SH10-27
AAI Night Scanner	STC SH96-65
AAI Spacemaker (Baggage Extender)	STC SH96-75
AAI LH Step Handle	STC SH96-53
BHT 28 Amp Battery	BHT 407-II-13
BHT Auxiliary Fuel Kit	BHT 407-II-6
BHT Dual Controls	BHT 407-II-9
BHT Fire Detection System	BHT 407-II-19
BHT Flight Instruments	BHT 407-II-15
BHT High Skid Gear	BHT 407-II-2
BHT Increased Internal Gross Weight	BHT 407-II-23
BHT Particle Separator	BHT 407-II-3
BHT Passenger Sliding Window	BHT 407-II-12
BHT Plus Power Kit	BHT 407-II-24
BHT Rotor Brake	BHT 407-II-8
BHT Tail Rotor Pedal Stop Kit	BHT 407-II-26

Signature of person submitting the report

Completion Date

Print Name