BELL 212 POWER ASSURANCE CHECK

To be carried out every 25 hours or as requested by the engineer assigned to the aircraft. See AFM Section 4 (pg 4-3) for more detail.

Use Chart A to determine the target torque for the specific pressure altitude. Set this torque on the appropriate engine torque needle using the inner scale of the torquemeter for greater accuracy (don't use the summation needle on the outer scale).

Use Chart B to determine the maximum allowable ITT and N1 based on the current OAT. Allow the engine to stabilize for four minutes to ensure accurate ITT indications.

Record the data on the back of this card and return it to maintenance.

CHART A													
H	Р	-500	-1000	-1500								-	
% TO	RQUE	50.5	51.5	52.5									
Н	Р	0	500	1000	1500	2000	2500	3000	3500	4000	4500	5000	5500
% TC	ORQUE	49.5	48.5	48.0	47.0	46.0	45.0	44,0	43.5	42.5	42.0	41.0	40.5
										•			
Н	Р	6000	6500	7000	7500	8000	8500	9000	9500	10,0	00 10	,500	11,000
% TC	ORQUE	39.5	38.5	38.0	37.5	36.5	36.0	35.0	34.5	34	.0	33.0	32.5
EXAMPLE													
1. ALTIMETER													
OBSERVED Hp													
4. START BOTH ENGINES													
5. TURN HEATER OFF													
6. ON GROUND, ENGINE NO. 2 TO IDLE													
7. STABILIZE NO. 1 ENGINE, 4 MINUTES MINIMUM, AT 97% (N2) ENG RPM AND CHART A TORQUE AND OBSERVE													
GAS PROD (N1) 95.2% RPM													
	ITT 710°C												
١	OBSE	:BVED	2 A C DD	OD /N1	\ DDM /	ND ITT	SALICT		AT C THAN	CLIAD	T C 4 C		0°C
OBSERVED GAS PROD (N1) RPM AND ITT MUST BE LESS THAN CHART GAS PROD (N1) RPM AND ITT FOR OBSERVED OAT.													
9. REPEAT CHECK ON NO. 2 ENGINE WITH NO. 1 ENGINE AT IDLE.													
10. If OBSERVED GAS PROD (N1) RPM AND/OR ITT ARE GREATER THAN CHART B GAS													
11.				ID/OR I					MIE NICE	DIE CI	OLIT ALC	CDEA	TED
11. HOVER IGE AND CHECK NO. 1 AND NO. 2 ENGINE TORQUE NEEDLE SPLIT NO GREATER THAN 4%.													
CHART B													
OAT	~ °C	52	50	45	40	35	30	25	20	15	10	5	0
GAS PF (N1) —	ROD - % RPM	100	100	99.8	99.1	98.4	97.7	97.0	96.3	95.6	94.8	94.1	93.4
IΠ	~ °C	810	810	805	795	780	765	750	735	720	705.	690	675
OAT		-5	-10	-15	-20	-25	-30	-35	-40	-45	-50	-54	
GAS PF (N1) —	ROD % RPM	92.7	92.0	91.3	90.6	89.9	89.2	88.5	87.8	87.1	86.4	85.8	
IΠ	~ °C	660	645	630	615	605	590	575	560	545	530	520	

212\/ED.EM.4.2

Power Assurance Check										
Aircraft Registra	tion	Date								
PA		Тетр								
Tgt Q										
Max N1		Max ITT								
Power Sections										
	Eng 1	Eng 2								
N1										
ITT										
Eng Oil Temp										
Eng Oil Press										
Fuel Press										
AC Voltage										
DC Voltage										
	Ancillaries									
CE	Box		Xm	sn						
Temp		Temp								
Press		Press								
Beep Check										
Rotor RPM	Eng 1	Eng 2		Dual						
High										
Low										
Limits	95-99.5	95-9	99.5	97-101.5						