G500H BELL 206L SERIES

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1 INTRODUCTION

1.1 Purpose of Document

The purpose of this electrical load analysis (ELA) is to document electrical loads for the G500H system as installed for this STC. This ELA will show the following:

- The total change in power consumption after the alteration is negligible and does not exceed the capacity of the electrical power generation and distribution system of the aircraft under foreseeable operating conditions.
- 2) The aircraft systems can be supported by the generator during normal operation.

2 APPLICABLE DOCUMENTS

Bell Helicopter, BHT-206L-MM-2, Bell model 206L Maintenance Manual Vol 2, Rev 6, dated 20 Mar 1979
Bell Helicopter, BHT-206L1-MM-2, Bell model 206L1 Maintenance Manual Vol 2, Rev 1, dated 31 Oct 2008
Bell Helicopter, BHT-206L3-MM-10, Bell model 206L3 Maintenance Manual Vol 10, Rev 10, dated 20 July 2009
Bell Helicopter, BHT-206L4-MM-10, Bell model 206L4 Maintenance Manual Vol 10, dated 2 Dec 1994
Bell Helicopter, BHT-206L3-FM-1, Bell Model 206L3 Rotorcraft Flight Manual, Rev 1, dated 8 Aug 2008
Bell Helicopter, BHT-206L4-FM-1, Bell Model 206L4 Rotorcraft Flight Manual, Rev 2, dated 22 Aug 2008
Garmin International, Document No. 190-01150-06, G500H Installation Manual
Garmin International, Document No. 005-C0577-00, G500H Flight Display System STC Installation Master Drawing List (MDL)

2.1 Applicable Regulations

This analysis will show compliance to the following regulations:

1) 14 CFR 27.1351(a) Amdt. 27-13



3 SYSTEM DESCRIPTION

The Bell 206L Series rotorcraft are equipped with a 28 VDC electrical system. The generator furnishes regulated power for all DC electrical circuits of the helicopter. Generator output is transferred to the main bus when a minimum of 24 VDC is achieved.

The Starter-generator is located on the underside of the engine to the right of helicopter centerline. This unit is used to start the engine, charge the battery, and supply power for operation of DC equipment. Power is stored in the 24 Volt battery.

The DC generator power capacity at 30 VDC for each of the Bell 206L series is as follows:

| Model | Generator Rating | Continuous Rating | 2 min rating | 5 sec rating |
|------------|---------------------|----------------------|--------------|-----------------|
| Bell 206L | 150A | 125A | N/A | N/A |
| Bell 206L1 | 200A | 137A | 300A | 400A |
| Bell 206L3 | 200A | 180A | N/A | N/A |
| Bell 206L4 | 200A | 180A | N/A | N/A |

Refer to Figure 3-1 for a simplified diagram of the Bell 206L Electrical power system.

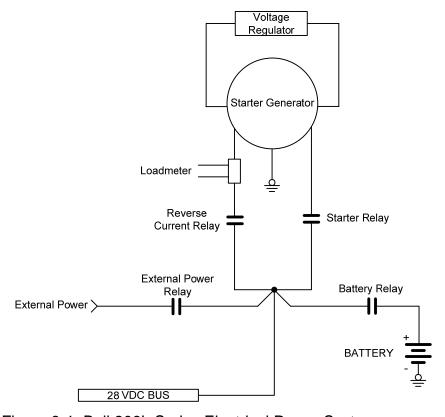


Figure 3-1. Bell 206L Series Electrical Power System



3.1 Electrical Load Analysis

An electrical load analysis (ELA) must be completed on the Bell 206L Series rotorcraft prior to installation to verify that the rotorcraft electrical system is capable of supporting the additional electrical load of the G500H system. The purpose of the ELA is to show compliance with FAR 27.1351(a). As part of the G500H installation it must be shown that the maximum electrical system demand does not exceed the DC power generating system capacity. The results of the ELA must be recorded on FAA Form 337. For the G500H system equipment, use the following values for computation:

| LRU | 28 Volt Current Draw | | | |
|----------------|----------------------|-----------|--|--|
| LKO | Typical | Maximum | | |
| GDU 620 | 1.9 A | 2.7 A | | |
| GRS 77H/GMU 44 | 300 mA | 1.0 A [1] | | |
| GDC 74H/GTP 59 | 200 mA | 235 mA | | |

^[1] Maximum current draw occurs momentarily at startup or when the supply voltage drops to 9 VDC.

Table 3-1. G500H LRU Current Requirements

3.2 Bell 206L Series with Existing Electrical Load Analysis

If there is an existing ELA for the rotorcraft, this must be updated to reflect the modification. It must show that the generator has adequate capacity to supply power to the modified systems in all anticipated conditions. Add the G500H system equipment loads listed in Table 3-1 to the existing analysis and ensure that the generator capacity is not exceeded under all anticipated operating conditions.

The ELA is used to ensure that the DC power generating system will not exceed its designed capacity during all in-flight conditions. If additional electrical or avionics equipment is installed in the helicopter beyond what is covered in the existing ELA, be sure to obtain appropriate electrical load data for the installed equipment and add it to the ELA. Ensure the electrical load limits will not be exceeded with the installation of the G500H system.

3.2.1 Bell 206L Electrical Load Analysis

Table 3-2 includes an ELA showing the basic helicopter loads and optional equipment along with the G500H equipment. If there is other equipment installed in the rotorcraft beyond what is documented below, this equipment must be added to the ELA. Add the equipment in the 'Additional Equipment' rows. Be sure to include the number of units as well as the amps used per unit for each additional piece of equipment that is added to the list.

Also, if the rotorcraft does not have all of the listed equipment installed, be sure to remove these items from the ELA to ensure an accurate listing of all the loads applicable to a particular installation. For each piece of equipment that is removed from the list, subtract the Amps used per unit from the Total Amperage to ensure that the total value reflects the equipment removed.

After the ELA in Table 3-2 has been modified to reflect the individual rotorcraft installation, add the total number of Amps used, including the values for the G500H equipment. Ensure this value is below the rated continuous capacity for the installed generator. For the standard Bell 206L, this value is 125 Amps. If the total value is above 125 Amps, alternate FAA approval is required for installation of the G500H equipment.

| EQUIPMENTBASIC | NO. of Units | Amps per Unit | Amps Used | Duty Cycle |
|-----------------------------|-----------------|------------------|--------------|--------------|
| | | | | |
| Flight Controls | | | | |
| Hydraulic Bypass Solenoid | 1 | 1.5 | 1.5 | Intermittent |
| | | | | |
| Instruments | | | | |
| XMSN Oil Pressure System | 1 | 0.1 | 0.1 | Continuous |
| XMSN Oil Pressure Indicator | 1 | | | |



| | | | T | T |
|---------------------------------|----|------|------|----------------------------|
| XMSN Oil Pressure Transmitter | 1 | | | |
| | | | | |
| Engine Instruments | | | | |
| Fuel Quantity System | 1 | 0.1 | 0.1 | Continuous |
| Fuel Quantity Indicator | 1 | | | |
| Fuel Quantity Transmitter | 3 | | | |
| Fuel Pressure System | 1 | 0.1 | 0.1 | Continuous |
| Fuel Pressure Indicator | 1 | | | |
| Fuel Pressure Tranmitter | 1 | | | |
| Engine Oil Pressure System | 1 | 0.1 | 0.1 | Continuous |
| Engine Oil Pressure Indicator | 1 | | | |
| Engine Oil Pressure transmitter | 1 | | | |
| turbine outlet temperature | 1 | 0.25 | 0.25 | Continuous |
| engine hour meter | 1 | 0.04 | 0.04 | Continuous |
| | | | | |
| Heating | | | | |
| defog blower motor | 2 | 1.4 | 2.8 | Intermittent |
| engine de-ice control | 1 | 0.14 | 0.14 | Continuous |
| <u> </u> | | | | |
| Engine Ignition | | | | |
| ignitor relay | 1 | 0.2 | 0.2 | Intermittent |
| ignitor relay | 1 | 1.6 | 1.6 | Intermittent |
| iginio. Total | • | 110 | | - Intomitteent |
| Engine Controls | | | | |
| start relay | 1 | 0.6 | 0.6 | Intermittent |
| Start Totaly | | 0.0 | 0.0 | intomittont |
| Lighting | | | | |
| tail position lights | 1 | 1.02 | 1.02 | Continuous |
| instrument and edge lights | 95 | 0.04 | 3.8 | Continuous |
| side position lights | 4 | 0.93 | 3.72 | Continuous |
| landing light | 2 | 9.1 | 18.2 | Continuous |
| landing light relay | 2 | 0.25 | 0.5 | Continuous |
| cockpit light | 1 | 0.17 | 0.17 | Continuous |
| anticollision light system | 1 | 1.5 | 1.5 | Continuous |
| anticollision light | 1 | 1.5 | 1.5 | Continuous |
| strobe power supply | 1 | | | |
| Strobe power supply | 1 | | | |
| Power | | | | |
| | 1 | 0.6 | 0.6 | Continuous |
| battery bus relay | 1 | | 0.6 | Continuous Intermittent |
| battery charging | | 38 | 38 | |
| generator line relay | 1 | 0.6 | 0.6 | Continuous |
| Fuel Centrel | | | | |
| Fuel Control | 4 | 0.0 | 0.0 | Intormitteet |
| RPM governor actuator | 1 | 0.9 | 0.9 | Intermittent |
| fuel boost pump | 1 | 4.3 | 4.3 | Continuous |
| fuel boost pump | 1 | 4.3 | 4.3 | Continuous |
| fuel shutoff valve | 1 | 2 | 2 | Intermittent |
| fuel dump valve | 1 | 1 | 1 | Intermittent |
| <u> </u> | | | | |
| Warning and Emergency | | | _ | |
| low rotor RPM horn | 1 | 0.1 | 0.1 | Intermittent |



| engine out warning horn | | Λ1 Ι | Λ1 | Intormittant |
|--------------------------------------|------|------|-------|------------------------------|
| angina aut warning light | 1 | 0.1 | 0.1 | Intermittent Intermittent |
| engine out warning light | | | 0.04 | |
| caution lights | 9 | 0.04 | 0.36 | Intermittent |
| battery hot warning light | 1 | 0.04 | 0.04 | Intermittent |
| Total 28VDC Continuous bus-Ba | asic | | | |
| Aircraft | asic | | 39.54 | |
| | | | | |
| Optional Equipment | | | | |
| | | | | |
| Flight Controls | | | | |
| SCAS | 1 | 2.2 | 2.2 | Continuous |
| Flight Instruments | | | | |
| Flight Instruments | 1 | | | |
| Flight Instrument Group pitot heater | 1 | 4 | | Cantinuous |
| | 1 | 4 | 4 | Continuous |
| altitude indicator | 1 | 0.8 | 0.8 | Continuous |
| heading indicator | 1 | 0.8 | 0.8 | Continuous |
| turn and slip indicator | 1 | 0.2 | 0.2 | Continuous |
| Heating | | | | |
| bleed air heater kit | 1 | 0.2 | 0.2 | Continuous |
| ECU ECU | 1 | 38.5 | 38.5 | Continuous |
| heater kit | 1 | 16.7 | 16.7 | Intermittent |
| Trouter Int | | 10.7 | 10.7 | intorrintorit |
| Engine Ignition | | | | |
| Automatic relight kit | 1 | 0.5 | 0.5 | Continuous |
| Lighting | | | | |
| passenger compartment lights | 1 | 1.2 | 1.2 | Continuous |
| paccongo: comparament ngme | · . | | | |
| Miscellaneous | | | | |
| Cargo hook kit | 1 | 14 | 14 | Intermittent |
| Radio NAV/COMM | | | | |
| avionics kits | 1 | | | |
| VHF radio receiver | 1 | 1.02 | 1.02 | Continuous |
| VHF radio transmitter | 1 | 3.1 | 3.1 | Continuous |
| voltage converter | 1 | 0.1 | 0.1 | Continuous |
| ADF | 1 | 1 | 1 | Continuous |
| Omni/ILS Indicator | 1 | 0.2 | 0.2 | Continuous |
| Audio Panel | 1 | 1.33 | 1.33 | Continuous |
| | , | | 1.00 | 20.7 |
| Radar | | | | |
| Avionics Kit | 1 | | | |
| Transponder | 1 | 1.3 | 1.3 | Continuous |
| Warning and Emergency | | | | |
| Rotor brake kit | 1 | 0.4 | 0.4 | Intermittent |
| MOTOL DIGING VII | | | 4 | Intermittent |
| pop-out floats | 1 | 4 | | |



| Additional Equipment: | | | | |
|----------------------------|---|-------|--------|------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Total 28VDC Optional kits | | | 56.45 | |
| | | | | |
| G500H Equipment | | | | |
| GDU 620 PFD/MFD | 1 | 2.7 | 2.7 | Continuous |
| GRS 77H AHRS/GMU 44 | 1 | 1 | 1 | Continuous |
| GDC 74H ADC/GTP 59 | 1 | 0.235 | 0.235 | Continuous |
| | | | | |
| Total G500H Max Values | | | 3.935 | |
| | | | | |
| Total Basic+optional+G500H | | | 99.925 | |

Table 3-2. 206L Electrical Load Analysis with G500H Equipment

Notes and Assumptions:

- 1. Intermittent loads are not included in the total value as these loads are short duration loads and will be absorbed by the battery. Continuous circuits are assumed to be energized for all flight phases.
- 2. Helicopter is considered to be in worse case electrical loading conditions in landing configuration with an air conditioner installed and turned on.
- 3. The air conditioner and heater are mutually exclusive. It is assumed that both the air conditioner and heater will not be energized at the same time.
- 4. Load values were taken from the Bell 206L Maintenance Manual.
- 5. Battery charge current is not considered in the analysis.
- 6. Additional equipment or differences between this ELA and the actual rotorcraft configuration must be accounted for in the final calculation. It is the responsibility of the installer to ensure correct electrical loading calculations in the final ELA.

Conclusion:

The Bell 206L generator is rated at 125 Amps for continuous operation. The 206L generator has sufficient capacity to provide all systems with the necessary power in the stated configuration with the addition of the G500H system equipment in accordance with § 27.1351 (a). The addition of the G500H does not cause excessive loading on the electrical system of the Bell 206L in this configuration.

3.2.2 Bell 206L1 Electrical Load Analysis

Table 3-3 includes an ELA showing the basic helicopter loads and optional equipment along with the G500H equipment. If there is other equipment installed in the rotorcraft beyond what is documented below, this equipment must be added to the ELA. Add the equipment in the 'additional equipment' rows. Be sure to include the number of units as well as the amps used per unit for each additional piece of equipment that is added to the list.

Also, if the rotorcraft does not have all of the listed equipment installed, be sure to remove these items from the ELA to ensure an accurate listing of all the loads applicable to a particular installation. For each piece of equipment that is removed from the list, subtract the Amps used per unit from the Total Amperage to ensure that the total value reflects the equipment removed.

After the ELA in Table 3-3 has been modified to reflect your individual rotorcraft installation, add the total number of Amps used, including the values for the G500H equipment. Ensure this value is below the rated continuous capacity for the installed generator. For the standard Bell 206L1, the generator is rated at 200 Amps and is



derated to 137 Amps. Ensure that the continuous operating load with the addition of the G500H equipment does not exceed 137 Amps.

| Basic Helicopter Operating L | | | 15 | |
|------------------------------|--------------|--------------|---------------|--------------|
| Elight Phase | 5 seconds | 2 minutes | 15 minutes | |
| Flight Phase Start/Warmup | 32.63 | 31.27 | 31.15 | |
| Takeoff | 32.05 | 31.26 | 31.13 | |
| Cruise | 32.15 | 31.25 | 31.11 | |
| Landing | 50.85 | 49.95 | 37.35 | |
| Landing | 50.65 | 49.90 | 37.33 | |
| Optional Auxiliary KitsOper | ating Loads | | | Duty Cycle |
| Heater Kit | | 16.7 | | Intermittent |
| ECU | | 39.5 | | Continuous |
| Flight Instruments | | 5.9 | | Continuous |
| Auto Relight | | 0.5 | | Intermittent |
| Cargo Hook | | 14 | | Intermittent |
| VHF Receiver | | 1.02 | | Continuous |
| VHF Transmitter | | 3.1 | | Continuous |
| ADF | | 1 | | Continuous |
| Voltage Converter | | 0.1 | | Continuous |
| OMNI/ILS Indicator | | 0.2 | | Continuous |
| Audio Panel | | 1.33 | | Continuous |
| Transponder | | 1.3 | | Continuous |
| Rotor Brake | | 0.4 | | Intermittent |
| | | | | |
| Avionics KitsFor Bell 206L1 | S/N 45154-4 | 5600 | L | |
| VHF Receiver | | 1.02 | | Continuous |
| VHF Transmitter | | 3.1 | | Continuous |
| ADF Receiver | | 1 | | Continuous |
| Voltage Converter | | 0.1 | | Continuous |
| OMNI/ILS Indicator | | 0.2 | | Continuous |
| Audio Panel | | 1.33 | | Continuous |
| Transponder | | 1.3 | | Continuous |
| • | | | | |
| Avionics KitsFor Bell 206L1 | S/N 45601 aı | nd after | | |
| VHF NAV/COM RX | | 0.56 | | Continuous |
| VHF NAV/COM TX | | 2.75 | | Continuous |
| OMNI/ILS Indicator | | 0.2 | | Continuous |
| Audio Panel | | 1.84 | | Continuous |
| Isolation Amp | | 1.1 | | Continuous |
| ADF Receiver | | 0.59 | | Continuous |
| Transponder | | 1.17 | | Continuous |
| • | | | | |
| G500H Equipment | | | | |
| GDU 620 PFD/MFD | | 2.7 | | Continuous |
| GRS 77H AHRS/GMU 44 | | 1 | | Continuous |
| GDC 74H ADC/GTP 59 | | 0.235 | | Continuous |
| Additional Equipment | | | | |
| Additional Equipment | | | | |
| | | | | |
| | | 1 | l | l |



| Total | | |
|---------------------------|---------|--|
| Basic+Optional+Avionics+ | | |
| G500H (S/N 45154-45600) | 102.785 | |
| | | |
| Total | | |
| Basic+Optional+Avionics+ | | |
| G500H (S/N 45601 & after) | 102.945 | |

Table 3-3. Bell 206L1 Electrical Load Analysis with G500H Equipment

Notes and Assumptions:

- 1. Intermittent loads are not included in the total value as these loads are short duration loads and will be absorbed by the battery. Continuous circuits are assumed to be energized for all flight phases.
- 2. Helicopter is considered to be in worse case electrical loading conditions in landing configuration with an air conditioner installed and turned on.
- 3. The air conditioner and heater are mutually exclusive. It is assumed that both the air conditioner and heater will not be energized at the same time.
- 4. Load values were taken from the Bell 206L1 Maintenance Manual.
- 5. Battery charge current is not considered in the analysis.
- 6. The 15 minute landing configuration from the Bell 206 L1 maintenance manual was used for the basic helicopter operating loads.
- 7. Additional equipment or differences between this ELA and the actual rotorcraft configuration must be accounted for in the final calculation. It is the responsibility of the installer to ensure correct electrical loading calculations in the final ELA.

Conclusion:

The Bell 206L1 generator is rated at 137 Amps for continuous operation. The 206L1 generator has sufficient capacity to provide all systems with the necessary power in the stated configuration with the addition of the G500H system equipment in accordance with § 27.1351 (a). The addition of the G500H does not cause excessive loading on the electrical system of the Bell 206L1 in this configuration.



3.2.3 Bell 206L3 Electrical Load Analysis

The Bell 206L3 Maintenance Manual outlines the following values with basic and optional equipment installed:

Bell 206L3 Continuous Operating Loads--Amps

| Basic Helicopter Equipment | 41.73 |
|----------------------------|---------|
| Auxiliary Kits | 51.37 |
| Optional Avionics | 8.7 |
| Battery charge current | 57.8 |
| Additional G500H Equipment | |
| GDU 620 PFD/MFD | 2.7 |
| GRS 77H AHRS/GMU 44 | 1 |
| GDC 74H ADC/GTP 59 | 0.235 |
| Total | 105.735 |

Table 3-4. Bell 206L3 Electrical Load Analysis with G500H Equipment

Table 3-4 shows that the total current draw from the generator is 105.735 Amps. This is assuming a worse-case situation with all optional avionics, all auxiliary kits, and the G500H installed. In most cases, not all of the optional avionics and kits will be installed, which would decrease the total load on the generator. The Bell 206L3 generator capacity is rated at 180 Amps for continuous operation. This shows that the Bell 206L3 has the capacity to supply the necessary power to the G500H system.

Notes and Assumptions:

- 1. Load values were taken from the Bell 206L3 Maintenance Manual.
- 2. The total includes the basic helicopter loads, all auxiliary kit loads, and all optional avionics.
- 3. Battery charge current is not considered in the analysis.
- 4. Additional equipment or differences between this ELA and the actual rotorcraft configuration must be accounted for in the final calculation. It is the responsibility of the installer to ensure correct electrical loading calculations in the final ELA.

Conclusion:

The Bell 206L3 generator is rated at 180 Amps for continuous operation. The 206L3 generator has sufficient capacity to provide all systems with the necessary power in the stated configuration with the addition of the G500H system equipment in accordance with § 27.1351(a). The addition of the G500H does not cause excessive loading on the electrical system of the Bell 206L3 in this configuration.

3.2.4 Bell 206L4 Electrical Load Analysis

The Bell 206L4 Maintenance Manual outlines the following values with basic and optional equipment installed:

Bell 206L4 Continuous Operating Loads--Amps

| Basic Helicopter Equipment | 35.14 |
|----------------------------|--------|
| Auxiliary Kits | 51.37 |
| Optional Avionics | 8.7 |
| Battery Charge Current | 57.8 |
| Additional G500H Equipment | |
| GDU 620 PFD/MFD | 2.7 |
| GRS 77H AHRS/GMU 44 | 1 |
| GDC 74H ADC/GTP 59 | 0.235 |
| | |
| Total | 99.145 |

Table 3-5. Bell 206L4 Electrical Load Analysis with G500H Equipment



Table 3-5 shows that the total current draw from the generator is 99.145 Amps. This is assuming a worse-case situation with all optional avionics, all auxiliary kits, and the G500H installed. In most cases, not all of the optional avionics and kits will be installed, which would decrease the total load on the generator. The Bell 206L4 generator capacity is rated at 180 Amps for continuous operation. This shows that the Bell 206L4 has the capacity to supply the necessary power to the G500H system.

Notes and Assumptions:

- 1. Load values were taken from the Bell 206L4 Maintenance Manual.
- 2. The total includes the basic helicopter loads, all auxiliary kit loads, and all optional avionics.
- 3. Battery charge current is not considered in the analysis.
- 4. Additional equipment or differences between this ELA and the actual rotorcraft configuration must be accounted for in the final calculation. It is the responsibility of the installer to ensure correct electrical loading calculations in the final ELA.

Conclusion:

The Bell 206L4 generator is rated at 180 Amps for continuous operation. The 206L4 generator has sufficient capacity to provide all systems with the necessary power in the stated configuration with the addition of the G500H system equipment in accordance with § 27.1351(a). The addition of the G500H does not cause excessive loading on the electrical system of the Bell 206L4 in this configuration.

3.3 Pass/Fail Criteria

For a Bell 206L Series G500H installation, the following must be shown:

- 1. The electrical bus load must not exceed the generator capacity under continuous operating conditions.
- The G500H system installation does not overload the generator capacity in any foreseeable operating conditions.

If the limits outlined above are exceeded, alternate FAA approval is required for installation of the G500H equipment.

4 SUMMARY

The analysis above demonstrates the following statements to be true:

- 1. The 206L Series generator capacity is sufficient with the addition of the G500H system equipment in the stated configuration in accordance with § 27.1351(a) Amdt. 27-13.
- 2. This STC contributes no significant change to the existing electrical distribution or loading of the Bell 206L Series with the addition of the G500H equipment.