

CH/A:	ENRA - MARITIME HELICOPTERS INC
MLF Label:	4.3.4 (AW) Major Repairs & Alterations (Released)
DCT Type:	ED DCT
Specialty:	Airworthiness
DCT Revision:	12.0 on 03/08/19 (Released)

Summary Information

Purpose (Certificate Holder Responsibility):	To use approved/acceptable data to accomplish major repairs, major alterations, and generate the appropriate records/reports.
Objective (FAA Responsibility):	Determine if the CH will be able to; (1) Comply with regulations; (2) Accomplish major repairs and major alterations using approved/acceptable data; (3) Generate the appropriate major repair and major alteration records/reports.

Common Data Fields

Start Date	
End Date	
Location: (Nearest) Airfield	
Related/Affiliated Designator	
CH/A Provided	
If work is offsite of the airfield, include one of the following	
☐ Address 1	
☐ Address 2	
☐ Address 3	
☐ City	
☐ State	
☐ Postal Code	
☐ Country	
☐ Latitude	
☐ Longitude	

Supplemental Information

Questions	Answers	References
4.3.4 (AW) Major Repairs & Alterations		
2 Does the process design ensure the individual with responsibility provides both financial and human resources for the safety and quality performance of this element? NOTE: Safety Attribute: Management Responsibility, Question Type: Output Validation, Scoping Attribute: IF (FAR PART = "135" OR "145" OR "141" OR "142" OR "147") AND NOT (SAFETY PROGRAMS = "SMSVP") THEN ACTIVATE, Rev. 2 3/8/2019 12:47:48 PM, QID: 00051943, Response Details: Responsibility ED/EP/SP DCTs (Both OP and AW), Status: Released	☐ Yes ☐ No	
4 Is the person with authority clearly identifiable, qualified and knowledgeable to effectively plan, direct and control resources, change procedures and make key determinations including safety risk acceptance decisions for this element? NOTE: Safety Attribute: Management Authority, Question Type: Output Validation,	☐ Yes ☐ No	

Questions	Answers	References
Scoping Attribute: IF (FAR PART = "135" OR "145" OR "141" OR "142" OR "147") AND NOT (SAFETY PROGRAMS = "SMSVP") THEN ACTIVATE, Rev. 2 3/8/2019 12:47:48 PM, QID: 00051944, Response Details: Authority ED/EP/SP DCTs (Both OP and AW), Status: Released		
6 Do process measurement(s) exist to evaluate the performance of this element and implement corrective action if necessary? NOTE: Safety Attribute: Process Measurement, Question Type: Output Validation, Scoping Attribute: IF (FAR PART = "135" OR "145" OR "141" OR "142" OR "147") AND NOT (SAFETY PROGRAMS = "SMSVP") THEN ACTIVATE, Rev. 2 3/8/2019 12:47:48 PM, QID: 00051945, Response Details: Process Measurement ED/EP/SP DCTs (Both OP and AW), Status: Released	☐ Yes ☐ No	
7 Does the maintenance program include procedures that specify how the Operator will classify major repairs and alterations? NOTE: Major repairs and alterations must be performed according to technical data approved by the FAA. Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: IF (FAR PART = "135") AND (OPSPEC = "D072") THEN ACTIVATE QUESTION, Rev. 2 1/13/2016 3:13:21 PM, QID: 00005471, Response Details: EP & ED DCTs (Both OP and AW), Status: Released	☐ Yes ☐ No ☐ Not Applicable	Camp Pg 11
8 Does the maintenance program include requirements that major repairs or alterations be done according to technical data approved by the Administrator? NOTE: Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: IF (FAR PART = "135") AND (OPSPEC = "D072") THEN ACTIVATE QUESTION, Rev. 2 1/13/2016 3:13:21 PM, QID: 00005472, Response Details: EP & ED DCTs (Both OP and AW), Status: Released	☐ Yes ☐ No ☐ Not Applicable	Camp Pg 11 MHI FAA approved GMM Pg 2-14
9 Does the CAMP include approval procedures for the return to service of an aircraft, engine, appliance, or propeller after major repair or alteration has been performed? NOTE: Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: IF (FAR PART = "135") AND (OPSPEC = "D072") THEN ACTIVATE QUESTION, Rev. 1 5/14/2014 10:51:14 AM, QID: 00005473, Response Details: EP & ED DCTs (Both OP and AW), Status: Released	☐ Yes ☐ No ☐ Not Applicable	Camp Pg 11,12
10 Does the maintenance program include procedures to ensure that major repairs and alterations performed by other people on an aircraft, aircraft engine, or appliance is performed according to the Operator's CAMP maintenance manuals? NOTE: Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: IF (FAR PART = "135") AND (OPSPEC = "D072") THEN ACTIVATE QUESTION, Rev. 2 1/13/2016 3:13:21 PM, QID: 00005474, Response Details: EP & ED DCTs (Both OP and AW), Status: Released	☐ Yes ☐ No ☐ Not Applicable	Camp Pg 19-22

Questions	Answers	References
11 Does the maintenance program include procedures to prevent Canadian Aircraft Maintenance Engineers from approving major repairs or alterations for return to service? NOTE: A Canadian AMO, whose system of quality control for the maintenance, preventive maintenance, alteration, and inspection of aeronautical products that has been approved by Transport Canada Civil Aviation (or an authorized employee performing work for such an AMO), may approve (certify) a major repair or alteration performed under this section if the work was performed according to technical data approved by the FAA. Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: IF (FAR PART = "135") THEN ACTIVATE QUESTION, Rev. 1 5/14/2014 10:51:14 AM, QID: 00005475, Response Details: EP & ED DCTs (Both OP and AW), Status: Released	☐ Yes ☐ No ☒ Not Applicable	
12 Does the maintenance program include requirements that all the current records of a major repair or alteration for each airframe, engine, appliance, and propeller, if installed, be retained and transferred with the aircraft when it is sold? NOTE: These records may be in plain language, coded, or electronic form. Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: IF (FAR PART = "135") AND (OPSPEC = "D072") THEN ACTIVATE QUESTION, Rev. 2 3/28/2014 6:31:37 PM, QID: 00005476, Response Details: EP & ED DCTs (Both OP and AW), Status: Released	☐ Yes ☐ No ☐ Not Applicable	Camp Pg 17
13 Does the maintenance program include requirements that the Operator must submit a copy of each report of a major repair or alteration to AFS-750 and make the reports available for inspection by the Administrator or any representative of the NTSB? NOTE: The Operator shall submit a copy of each report of a major alteration to, and must keep a copy of each report of a major repair available for inspection by, the representative of the Administrator who is assigned to it. Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: IF (FAR PART = "135") AND (OPSPEC = "D072") THEN ACTIVATE QUESTION, Rev. 1 5/14/2014 10:51:14 AM, QID: 00005477, Response Details: EP & ED DCTs (Both OP and AW), Status: Released	☐ Yes ☐ No ☐ Not Applicable	Camp Pg 11 MHI FAA approved GMM Pg 2-14
14 Do the procedures require software modifications that affect the safe operation of the aircraft to be treated as major alterations? NOTE: Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: IF (FAR PART = "135") THEN ACTIVATE QUESTION, Rev. 2 3/25/2016 8:27:22 AM, QID: 00005478, Response Details: EP & ED DCTs (Both OP and AW), Status: Released	☐ Yes ☐ No ☐ Not Applicable	
15 Do the procedures specify that the Operator must prepare a report at the completion of each major repair or alteration of an airframe, aircraft engine, propeller, or appliance of an aircraft it operates? NOTE: Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: IF (FAR PART = "135") AND (OPSPEC = "D072") THEN ACTIVATE QUESTION, Rev. 2 3/29/2014 7:14:32 AM, QID: 00005479, Response Details: EP & ED DCTs (Both OP and AW), Status: Released	☐ Yes ☐ No ☐ Not Applicable	Camp Pg 11

Questions	Answers	References
16 Do the procedures specify that the operator must keep a copy of each record of a major repair available for inspection by the FAA-representative who is assigned to the Operator? NOTE: Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: IF (FAR PART = "135") AND (OPSPEC = "D072") THEN ACTIVATE QUESTION, Rev. 3 7/17/2014 4:32:43 PM, QID: 00005480, Response Details: EP & ED DCTs (Both OP and AW), Status: Released	☐ Yes ☐ No ☐ Not Applicable	Camp Pg 11
17 Do the maintenance procedures specify how the certificate holder will classify major repairs and alterations? NOTE: Major repairs and alterations must be performed per technical data approved by the FAA. Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: IF (FAR PART = "135") AND ((OPSPEC = "D101") OR (OPSPEC = "D102") OR (OPSPEC = "D104")) THEN ACTIVATE, Rev. 3 1/5/2018 7:30:30 AM, QID: 00005483, Response Details: EP & ED DCTs (Both OP and AW), Status: Released	☐ Yes ☐ No ☐ Not Applicable	Camp Pg 11-12
18 Do the maintenance procedures include for the return to service of an aircraft, engine, appliance, or propeller after a major repair or alteration has been performed? NOTE: Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: IF (FAR PART = "135") AND ((OPSPEC = "D101") OR (OPSPEC = "D102") OR (OPSPEC = "D104")) THEN ACTIVATE, Rev. 2 1/5/2018 7:30:30 AM, QID: 00005484, Response Details: EP & ED DCTs (Both OP and AW), Status: Released	☐ Yes ☐ No ☐ Not Applicable	Camp Pg 11
19 Do the maintenance procedures require that major repairs or alterations be done per technical data approved by the Administrator? NOTE: Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: IF (FAR PART = "135") AND ((OPSPEC = "D101") OR (OPSPEC = "D102") OR (OPSPEC = "D104")) THEN ACTIVATE, Rev. 3 1/5/2018 7:30:30 AM, QID: 00005485, Response Details: EP & ED DCTs (Both OP and AW), Status: Released	☐ Yes ☐ No ☐ Not Applicable	Camp Pg 11 MHI FAA approved GMM Pg 2-14
20 Do the maintenance procedures require current records of major repairs or alterations for each airframe, engine, appliance, and propeller (if installed) be retained and transferred with the aircraft when it is sold? NOTE: These records may be in plain language, coded, or electronic form. Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: IF (FAR PART = "135") AND ((OPSPEC = "D101") OR (OPSPEC = "D102") OR (OPSPEC = "D104")) THEN ACTIVATE, Rev. 2 1/5/2018 7:30:31 AM, QID: 00005486, Response Details: EP & ED DCTs (Both OP and AW), Status: Released	☐ Yes ☐ No ☐ Not Applicable	Camp Pg 17
21 Do the maintenance procedures require the certificate holder to submit a copy of each report of a major repair or alteration to AFS-750 and make the reports available for inspection by the Administrator or any representative of the NTSB?	☐ Yes ☐ No ☐ Not Applicable	Camp Pg 11

Questions	Answers	References
NOTE: The certificate holder must keep a copy of each report of a major repair available for inspection by the representative of the Administrator who is assigned to it. Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: IF (FAR PART = "135") AND ((OPSPEC = "D101") OR (OPSPEC = "D102") OR (OPSPEC = "D104")) THEN ACTIVATE, Rev. 3 1/5/2018 7:30:31 AM, QID: 00005487, Response Details: EP & ED DCTs (Both OP and AW), Status: Released		MHI FAA approved GMM Pg 2-14
22 Do the maintenance procedures require the certificate holder to use manufacturer's data or FAA-approved data for all maintenance and alterations? NOTE: The certificate holder may elect to use its own AAIP under 135.419. Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: IF (FAR PART = "135") AND ((OPSPEC = "D101") OR (OPSPEC = "D102") OR (OPSPEC = "D104")) THEN ACTIVATE, Rev. 3 12/17/2018 2:27:33 PM, QID: 00005502, Response Details: EP & ED DCTs (Both OP and AW), Status: Released	☐ Yes ☐ No ☐ Not Applicable	Camp Pg 6,11 MHI FAA approved GMM Pg 2-14
23 Are there procedures in place to ensure the completion and submission of FAA Form 337 for major repairs and major alterations performed? NOTE: Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: IF (FAR PART = "135") AND ((OPSPEC = "D101") OR (OPSPEC = "D102") OR (OPSPEC = "D104")) THEN ACTIVATE, Rev. 2 1/5/2018 7:30:31 AM, QID: 00005503, Response Details: EP & ED DCTs (Both OP and AW), Status: Released	☐ Yes ☐ No ☐ Not Applicable	Camp Pg 11 MHI FAA approved GMM Pg 2-14
25 Do procedures exist in enough detail to meet the regulatory and guidance requirements for this element to produce the intended results? NOTE: Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: IF (FAR PART = "135" OR "145" OR "141" OR "142" OR "147") AND NOT (SAFETY PROGRAMS = "SMSVP") THEN ACTIVATE, Rev. 2 3/8/2019 12:47:47 PM, QID: 00051940, Response Details: EP & ED DCTs (Both OP and AW), Status: Released	☐ Yes ☐ No ☐ Not Applicable	
27 Do controls exist within this element that ensure risks are reduced to an acceptable level? NOTE: Safety Attribute: Controls, Question Type: Output Validation, Scoping Attribute: IF (FAR PART = "135" OR "145" OR "141" OR "142" OR "147") AND NOT (SAFETY PROGRAMS = "SMSVP") THEN ACTIVATE, Rev. 2 3/8/2019 12:47:47 PM, QID: 00051941, Response Details: Controls ED/EP/SP DCTs (Both OP and AW), Status: Released	☐ Yes ☐ No	
29 Does the certificate holder have a method to evaluate the impact of changes on related processes (interfaces) for this element? NOTE: Safety Attribute: Interfaces, Question Type: Output Validation,	☐ Yes ☐ No	

Questions	Answers	References
Scoping Attribute: IF (FAR PART = "135" OR "145" OR "141" OR "142" OR "147") AND NOT (SAFETY PROGRAMS = "SMSVP") THEN ACTIVATE, Rev. 2 3/8/2019 12:47:47 PM, QID: 00051942, Response Details: Interfaces ED/EP/SP DCTs (Both OP and AW), Status: Released		
31 Does the process design require that individuals understand their safety role and how it contributes to the safety performance of this element? NOTE: Safety Attribute: Safety Ownership, Question Type: Output Validation, Scoping Attribute: IF (FAR PART = "135" OR "145" OR "141" OR "142" OR "147") AND NOT (SAFETY PROGRAMS = "SMSVP") THEN ACTIVATE, Rev. 2 3/8/2019 12:47:48 PM, QID: 00051946, Response Details: Safety Ownership ED/EP/SP DCTs (Both OP and AW), Status: Released	☐ Yes ☐ No	

Response Details List EP & ED DCTs (Both OP and AW) (Released, 1.0)

1	Unclear procedure(s)
2	Conflicting procedure(s)
3	Used workaround(s)
4	Skipped process step(s)
5	Personnel failed to follow process (procedures, guidance, etc)
6	Procedures/guidance not available
7	Procedures/guidance not current
8	Inconsistent procedure(s)
9	Undocumented procedure(s)
10	Minor typographical error(s) (i.e. record entries)
11	Information missing
12	Communication failure(s)
13	Personnel failed to perform task
14	Process failed to meet desired outcome
15	Process oversight failure
16	Equipment/tools not available
17	Equipment/tools not adequate
18	Equipment/tools not calibrated
19	Facilities not adequate
20	Other

Response Details List N/A Response Detail (Released, 2.0)

1	Not applicable or authorized for the certificate holder or applicant
2	Other

Response Details List Controls ED/EP/SP DCTs (Both OP and AW) (Released, 1.0)

1	Failure to identify hazards or ineffective risk controls
2	Failure to develop and maintain risk controls
3	Failure to effectively mitigate risk before applying risk controls
4	Risk controls ineffective
5	Unclear risk controls
6	Failure to assess risk for a new system
7	Failure to assess risk when revising an existing system
8	Failure to assess risk when developing operational procedures
9	Failure to maintain records of outputs of risk control assessments
10	Other

Response Details List Interfaces ED/EP/SP DCTs (Both OP and AW) (Released, 1.0)

1	Internal communication failure(s)
2	External communication failure(s)
3	Lack of interfaces
4	Inconsistent interfaces

5	Poor coordination between departments and employees
6	Failure of interfaces between processes or procedures
7	Other
Response Details List Responsibility ED/EP/SP DCTs (Both OP and AW) (Released, 1.0)	
1	Failed to provide financial resources
2	Failed to provide sufficient human resources
3	Individual not clearly identified
4	Failure to ensure safety of process
5	Failure to oversee operations conducted under the certificate
6	Failed to ensure quality performance of process
7	Process oversight failure
8	Communication failure(s)
9	Other
Response Details List Authority ED/EP/SP DCTs (Both OP and AW) (Released, 1.0)	
1	Process oversight failure
2	Unacceptable safety risk acceptance
3	Ineffective planning of resources
4	Ineffective use of resources
5	Ineffective control of resources
6	Failure to implement safety risk processes
7	Process owner not clearly identified
8	Unqualified
9	Other
Response Details List Process Measurement ED/EP/SP DCTs (Both OP and AW) (Released, 1.0)	
1	Inadequate monitoring of operations processes
2	Ineffective evaluations of processes or systems
3	Undocumented or insufficient investigations
4	Failure to conduct audits
5	Ineffective audits
6	Failure to detect changes in the operational environment
7	Personnel failed to perform/follow process (procedures, guidance, etc.)
8	Process failed to meet desired outcome
9	Process oversight failure
10	Other
Response Details List Safety Ownership ED/EP/SP DCTs (Both OP and AW) (Released, 3.0)	
1	Unaware of or ineffective safety policies or processes
2	Unaware of or ineffective safety related reporting tools
3	Unclear safety policy
4	Ineffective safety related training
5	Lack of safety culture
6	Unclear safety objectives
7	Other