

CH/A:ENRA - MARITIME HELICOPTERS INC

MLF Label:4.4.2 (AW) Mechanical Interruption Summary (MIS) / Service Difficulty Reports (SDR) (Released)

DCT Type:ED DCT

Specialty:Airworthiness

DCT Revision:9.0 on 03/08/19 (Released)

Summary Information

Purpose (Certificate Holder Responsibility):To detect failures, malfunctions, defects, and prepare mechanical interruptions summary (MIS) and service difficulty reports (SDR).

Objective (FAA Responsibility):Determine if the CH will be able to; (1) Comply with regulations; (2) Detect failures, malfunctions, defects, and prepare mechanical interruption summary (MIS) and service difficulty reports (SDR).

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
4.4.2 (AW) Mechanical Interruption Summary (MIS) / Service Difficulty Reports (SDR)		
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:	☐ Yes ☐ No	

Questions	Answers	References
Safety Attribute: Management Authority, 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: 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 operator's procedures specify that the certificate holder shall submit to the Administrator, before the end of the 10th day of the following month, a mechanical interruption summary (MIS) of: # Each interruption to a flight caused by known or suspected mechanical difficulties or malfunctions that are not required to be reported under 135.415, SDRs; # Each unscheduled change of aircraft enroute or unscheduled stop or diversion from a route caused by known or suspected mechanical difficulties or malfunctions that are not required to be reported under 135.415; and # If installed, the number of propeller featherings inflight listed by type of propeller, engine, and aircraft on which it was installed? NOTE: Propeller featherings for the purpose of training, demonstration, or flight check purposes need not be reported. Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: IF (FAR PART = "135") AND (PROPULSION = "MULTIENGINE") THEN ACTIVATE QUESTION, Rev. 3 7/17/2014 4:32:51 PM, QID: 00005798, Response Details: EP & ED DCTs (Both OP and AW), Status: Released	☐ Yes ☐ No ☐ Not Applicable	MHI FAA approved GMM Pg 2-15
8 Do the procedures include requirements to report the occurrence or detection of each failure, malfunction, or defect concerning: # Fires during flight and whether the related fire-warning system functioned properly; # Fires during flight not protected by a related fire-warning system; # False fire warning during flight; # An engine exhaust system that causes damage during flight to the engine, adjacent structure, equipment, or components; # An aircraft component that causes accumulation or circulation of smoke, vapor, or toxic or noxious fumes in the crew compartment or passenger cabin during flight; # Engine shutdown during flight because of flameout; # Engine shutdown during flight when external damage to the engine or airplane structure occurs; and # Engine shutdown during flight due to foreign object ingestion or icing? NOTE: For the purpose of this question, during flight means the period from the moment the aircraft leaves the surface of the earth on takeoff until it touches down on landing. Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: IF (FAR PART = "135") THEN ACTIVATE QUESTION, Rev. 4 12/17/2018 2:27:32 PM, QID: 00005802, Response Details: EP & ED DCTs (Both OP and AW), Status: Released	☐ Yes ☐ No ☐ Not Applicable	
9 Do the procedures include requirements to report the occurrence or detection of each failure, malfunction, or defect concerning: # Engine shutdown during flight of more than one-engine; # A propeller feathering system or ability of the system to control overspeed during flight; # A fuel or fuel-dumping system that affects fuel flow or causes hazardous leakage during flight; # An unwanted landing gear extension or retraction, or an opening or closing of landing gear doors during flight. # Brake system components that result in loss of brake actuating force when the airplane is in motion on the ground; # Aircraft structure that requires major repair; # Cracks, permanent deformation, or corrosion of aircraft structures, if more than the maximum	☐ Yes ☐ No ☐ Not Applicable	

Questions	Answers	References
acceptable to the manufacturer or the FAA; and # Aircraft components or systems that result in taking emergency actions during flight (except action to shut down an engine)? NOTE: For the purpose of this question, during flight means the period from the moment the aircraft leaves the surface of the earth on takeoff until it touches down on landing. Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: IF (FAR PART = "135") THEN ACTIVATE QUESTION, Rev. 4 12/17/2018 2:27:33 PM, QID: 00005811, Response Details: EP & ED DCTs (Both OP and AW), Status: Released		
10 Do the procedures specify that the Operator report any other failure, malfunction, or defect in the aircraft that occurred, or was detected at any time if, in its opinion, it endangered the safe operation of an aircraft? NOTE: These reports are in addition to the reporting of those items identified in 135.415(a). Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: IF (FAR PART = "135") THEN ACTIVATE QUESTION, Rev. 2 3/29/2014 7:18:10 AM, QID: 00005820, Response Details: EP & ED DCTs (Both OP and AW), Status: Released	☐ Yes ☐ No ☐ Not Applicable	
11 Do the procedures specify that each SDR will cover a 24-hour period beginning at 0900 local time of each day and be submitted to the FAA offices in Oklahoma City, OK within the next 96-hours? NOTE: A report due on Saturday or Sunday may be submitted on the following Monday, and a report due on a holiday may be submitted on the next work day. Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: IF (FAR PART = "135") THEN ACTIVATE QUESTION, Rev. 2 3/29/2014 7:18:25 AM, QID: 00005821, Response Details: EP & ED DCTs (Both OP and AW), Status: Released	☐ Yes ☐ No ☐ Not Applicable	
12 Do the procedures specify that SDR's be submitted on a form or a format acceptable to the Administrator and include: # Type and identification number of the aircraft and the name of the Operator; # The date; # The nature of the failure, malfunction, or defect; # Identification of the part and system involved, including available information pertaining to type designation of the major component and time since overhaul, if known; # Apparent cause of the failure, malfunction, or defect (e.g., wear, crack, design deficiency, or personnel error); and # Other pertinent information necessary for more complete identification, determination of seriousness, or corrective action? NOTE: Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: IF (FAR PART = "135") THEN ACTIVATE QUESTION, Rev. 3 7/17/2014 4:32:52 PM, QID: 00005822, Response Details: EP & ED DCTs (Both OP and AW), Status: Released	☐ Yes ☐ No ☐ Not Applicable	
13 Do the procedures specify that an SDR report is not required when the defect has been reported under 21.3 or under the accident reporting provisions of 49 CFR Part 830? NOTE: An Operator that is also the holder of a TC, a STC, a PMA, or a TSO Authorization, or that is the licensee of a TC holder, need not report a failure, malfunction, or defect if the failure, malfunction, or defect has been reported under 21.3 or under the accident reporting provisions of 49 CFR Part 830. Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: IF (FAR PART = "135") THEN ACTIVATE QUESTION, Rev. 2 3/29/2014 7:18:53 AM, QID: 00005829, Response Details: EP & ED DCTs (Both OP and AW), Status: Released	☐ Yes ☐ No ☐ Not Applicable	

Questions	Answers	References
14 Do the procedures require the timely submission of a SDR and shall include as much of the information that is available? NOTE: Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: IF (FAR PART = "135") THEN ACTIVATE QUESTION, Rev. 2 3/28/2014 6:30:21 PM, QID: 00005830, Response Details: EP & ED DCTs (Both OP and AW), Status: Released	☐ Yes ☐ No ☐ Not Applicable	Camp Pg 27,31
15 Do the procedures require prompt submission of any supplemental information concerning a previously reported failure, malfunction, or defect? NOTE: Supplemental reporting must reference the date and place of submission of the first report. Safety Attribute: Procedures, Question Type: Output Validation, Scoping Attribute: IF (FAR PART = "135") THEN ACTIVATE QUESTION, Rev. 2 3/29/2014 7:17:26 AM, QID: 00005831, Response Details: EP & ED DCTs (Both OP and AW), Status: Released	☐ Yes ☐ No ☐ Not Applicable	
16 Does the CASS require audits of the MIS/SDR reports to verify it is being performed following the manual? 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: 00005832, Response Details: EP & ED DCTs (Both OP and AW), Status: Released	☐ Yes ☐ No ☐ Not Applicable	Camp Pg 27,31
17 Does the CASS identify required MIS/SDR data and data collection to verify this program is effective? 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: 00005833, Response Details: EP & ED DCTs (Both OP and AW), Status: Released	☐ Yes ☐ No ☐ Not Applicable	Camp Pg 27,31
19 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	
21 Do controls exist within this element that ensure risks are reduced to an acceptable level? NOTE: Safety Attribute: Controls, 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: 00051941, Response Details: Controls ED/EP/SP DCTs (Both OP and AW), Status: Released		
23 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, 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	☐ Yes ☐ No	
25 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