Safety Attribute Inspection (SAI) Data Collection Tool 1.2.5 Service Difficulty Reports (SDR) (AW)

ELEMENT SUMMARY INFORMATION

Purpose of this Element (certificate holder's responsibility):

 To ensure that the occurrence or detection of each failure, malfunction, or defect is reported in accordance with the requirements of 14 CFR Section 121.703 and the certificate holder's system.

Objective (FAA oversight):

- To determine if the certificate holder's Service Difficulty Reports process meets all applicable requirements of Title 14 of the Code of Federal Regulations (14 CFR) and FAA policies.
- To determine if the certificate holder's Service Difficulty Reports process incorporates the safety attributes.
- To identify any shortfalls in the certificate holder's Service Difficulty Reports process.

Specific Instructions:

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SUPPLEMENTAL INFORMATION

Specific Regulatory Requirements (SRRs):

- SRRs:
 - 121.135(a)(1)
 - 121.135(b)(1)
 - 121.135(b)(2)
 - 121.135(b)(3)
 - 121.703(a)
 - 121.703(a)(1)
 - 121.703(a)(10)
 - 121.703(a)(11)
 - 121.703(a)(12)
 - 121.703(a)(13)
 - 121.703(a)(14)
 - 121.703(a)(15)
 - 121.703(a)(16)
 - 121.703(a)(17)
 - 121.703(a)(2)
 - 121.703(a)(3)
 - 121.703(a)(4)
 - 121.703(a)(5)
 - 121.703(a)(6) 121.703(a)(7)
 - 121.703(a)(7)
 - 121.703(a)(9)
 - 121.703(b)
 - 121.703(c)

- SRRs:
 - 121.703(d)
 - 121.703(e)
 - 121.703(e)(1)
 - 121.703(e)(10)
 - 121.703(e)(2)
 - 121.703(e)(3)
 - 121.703(e)(4)
 - 121.703(e)(5)
 - 121.703(e)(6)
 - 121.703(e)(7)
 - 121.703(e)(8)
 - 121.703(e)(9)
 - 121.703(f)
 - 121.703(g)
 - 121.703(h)

Related CFRs & FAA Policy/Guidance:

- Related CFRs:
 - Intentionally left blank
- FAA Policy/Guidance:
 - Intentionally Left Blank.

SAI Section 1 - Procedures Attribute

Objective: Procedures, instructions, and information are

documented methods for accomplishing a process. The certificate holder's policies should establish their compliance posture. Policies may be stand-alone statements, or they may be imbedded within procedures, instructions, or information regarding a particular regulatory requirement. The questions in this section of the data collection tool (DCT) are designed to assist the inspector in determining if the certificate holder has documented or prescribed methods of accomplishing the process requirements that provide answers to the associated questions regarding who, what, when, where, and how. This section contains policy questions, procedural

questions, and instructional or informational questions pertaining to various types of certificate holder requirements such as actions, prohibitions, or resources (i.e., personnel, facilities, equipment, technical data, etc.).

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Tasl	ks
	To meet this objective, the inspector must accomplish the following tasks:
1.	Review the information listed in the Supplemental Information section of this DCT.
2.	Review the duties and responsibilities for management and other personnel identified by the certificate holder who accomplish the Service Difficultly Reports process.
3.	Review the certificate holder's Service Difficulty Reports process to ensure it contains the policies, procedures, instructions and information necessary for personnel to perform their duties and responsibilities with a high degree of safety.

Questi	ons	
	To meet this objective, the inspector must answer the following questions:	
1.	Does the certificate holder's Service Difficulty Reports process meet the specific regulatory and FAA policy requirements:	
1.1.	Does the certificate holder provide instructions and information necessary for personnel to report the occurrence or detection of each failure, malfunction, or defect concerning: SRRs: 121.135(a)(1); 121.703(a) Related Design JTIs: 1. Check that the Certificate Holder provides information for the purpose of 14 CFR 121.703, "during flight" means the period from the moment the aircraft leaves the surface of the earth on takeoff until it touches down on landing. Sources: 121.135(a)(1); 121.703(b) Interfaces: 1.2.4(AW)	
1.1.1	Fires during flight and whether the related fire-warning system functioned properly? SRRs: 121.135(a)(1); 121.703(a)(1); 121.703(b)	☐ Yes ☐ No, Explain
1.1.2	Fires during flight not protected by a related fire-warning system? SRRs: 121.135(a)(1); 121.703(a)(2); 121.703(b)	☐ Yes ☐ No, Explain
1.1.3	False fire warning dur ng flight? SRRs: 121.135(a)(1); 121.703(a)(3); 121.703(b)	☐ Yes ☐ No, Explain
1.1.4	An engine exhaust system that causes damage during flight to the engine,	Yes

	adjacent structure, equipment, or components? SRRs: 121.135(a)(1); 121.703(a)(4); 121.703(b)	☐ No, Explain
1.1.5	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?	Yes No, Explain
	SRRs: 121.135(a)(1); 121.703(a)(5); 121.703(b)	
1.1.6	Engine shutdown during flight because of flameout? SRRs: 121.135(a)(1); 121.703(a)(6); 121.703(b)	☐ Yes ☐ No, Explain
1.1.7	Engine shutdown during flight when external damage to the engine or airplane structure occurs? SRRs: 121.135(a)(1); 121.703(a)(7); 121.703(b)	☐ Yes ☐ No, Explain
1.1.8	Engine shutdown during flight due to foreign object ingestion or icing? SRRs: 121.135(a)(1); 121.703(a)(8); 121.703(b)	Yes No, Explain
1.1.9	Engine shutdown during flight of more than one engine? SRRs: 121.135(a)(1); 121.703(a)(9); 121.703(b)	☐ Yes ☐ No, Explain
1.1.10	A propeller feathering system or ability of the system to control overspeed during flight? SRRs: 121.135(a)(1); 121.703(a)(10); 121.703(b)	☐ Yes ☐ No, Explain ☐ Not Applicable
1.1.11	A fuel or fuel-dumping system that affects fuel flow or causes hazardous leakage during flight? SRRs: 121.135(a)(1); 121.703(a)(11); 121.703(b)	Yes No, Explain
1.1.12	An unwanted landing gear extension or retraction, or an unwanted opening or closing of landing gear doors during flight? SRRs: 121.135(a)(1); 121.703(a)(12); 121.703(b)	☐ Yes ☐ No, Explain
1.1.13	Brake system components that result in loss of brake actuating force when the airplane is in motion on the ground? SRRs: 121.135(a)(1); 121.703(a)(13)	Yes No, Explain
1.1.14	Aircraft structure that requires major repair? SRRs: 121.135(a)(1); 121.703(a)(14)	☐ Yes ☐ No, Explain
1.1.15	Cracks, permanent deformation, or corrosion of aircraft structures, if more than the maximum acceptable to the manufacturer or the FAA? SRRs: 121.135(a)(1); 121.703(a)(15)	Yes No, Explain
1.1.16	Aircraft components or systems that result in taking emergency actions during flight (except action to shut down an engine)? SRRs: 121.135(a)(1); 121.703(a)(16); 121.703(b)	Yes No, Explain
1.1.17	Emergency evacuation systems or components, including all exit doors, passenger emergency evacuation lighting systems, or evacuation equipment, that are found defective, or that fail to perform the intended functions during an actual emergency or dur ng training, testing, maintenance, demonstrations, or inadvertent deployments? SRRs: 121.135(a)(1); 121.703(a)(17)	☐ Yes ☐ No, Explain
1.2.	Does the certificate holder specify it will report any failure, malfunction, or defect on an aircraft, in addition to those identified in 14 CFR Section 121.703(a), that occurs or is detected at any time if, in the certificate holder's opinion, the failure, malfunction, or defect has endangered or may endanger the safe operation of an aircraft used by it?	Yes No, Explain

	SRRs: 121.135(a)(1); 121.703(c)	
1.3.	Does the certificate holder specify it will send each report required by 14 CFR Section 121.703, covering each 24-hour period beginning at 0900 local time of each day and ending at 0900 local time on the next day, to the FAA offices in Oklahoma City, Oklahoma? SRRs: 121.135(a)(1); 121.703(d)	Yes No, Explain
1.4.	Does the certificate holder specify each report of occurrences required by 14 CFR Section 121.703 during a 24-hour period shall be submitted to the collection point within the next 96 hours? SRRs: 121.135(a)(1); 121.703(d)	Yes No, Explain
1.5.	Does the certificate holder specify a report due on Saturday or Sunday may be submitted on the following Monday, and one due on a holiday may be submitted on the next work day? SRRs: 121.135(a)(1); 121.703(d)	Yes No, Explain
1.6.	Does the certificate holder specify it will submit the reports required by 14 CFR 121.703 on a form or in another format acceptable to the Administrator and that the reports shall include the following information: SRRs: 121.135(a)(1); 121.703(e) Related Design JTIs: 1. Check that the certificate holder includes instructions and information necessary to allow personal concerned to perform the duty and responsibility to include in the first daily report required by this section as much of the following as is available:Type of the aircraft Identification number of the aircraft The name of the operator The date which the incident occurred The flight number which the incident occurred (e.g., preflight, ta keoff, climb, cruise, decent, landing, and inspection) The emergency procedure effected (e.g., unscheduled landing and emergency decent) 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 Apparent cause of the failure, malfunction, or defect (e.g., wear, crack, design deficiency, or personnel error) Whether the part was repaired, replaced, sent to the manufacturer, or other action taken Whether the aircraft was grounded Other pertinent information necessary for more complete identification, determination of seriousness, or corrective action Sources: 121.135(a)(1); 121.703(e)(1); 121.703(e)(10); 121.703(e)(5); 121.703(e)(6); 121.703(e)(7); 121.703(e)(8); 121.703(e)(9)	
1.6.1	Type and identification number of the aircraft? SRRs: 121.703(e)(1)	☐ Yes ☐ No, Explain
1.6.2	The name of the operator? SRRs: 121.703(e)(2)	Yes No, Explain
1.6.3	The date, flight number, and stage during which the incident occurred (e.g., preflight, takeoff, climb, cruise, descent, landing, and inspection). SRRs: 121.703(e)(3)	☐ Yes ☐ No, Explain
1.6.4	The emergency procedure affected (e.g., unscheduled landing and emergency descent)?	☐ Yes ☐ No, Explain

	SRRs: 121.703(e)(4)	
1.6.5	The nature of the failure, malfunction, or defect? SRRs: 121.703(e)(5)	☐ Yes ☐ No, Explain
1.6.6	Identification of the part and system involved, including available information pertaining to type designation of the major component and time since overhaul? SRRs: 121.703(e)(6)	Yes No, Explain
1.6.7	Apparent cause of the failure, malfunction, or defect (e.g., wear, crack, design deficiency, or personnel error)? SRRs: 121.703(e)(7)	☐ Yes ☐ No, Explain
1.6.8	Whether the part was repaired, replaced, sent to the manufacturer, or other action taken? SRRs: 121.703(e)(8)	Yes No, Explain
1.6.9	Whether the aircraft was grounded? SRRs: 121.703(e)(9)	☐ Yes ☐ No, Explain
1.6.10	Other pertinent information necessary for more complete identification, determination of seriousness, or corrective action? SRRs: 121.703(e)(10)	Yes No, Explain
1.7.	Does the certificate holder specify it needs not report a failure, malfunction, or defect under 14 CFR 121.703, if it has reported the failure, malfunction, or defect under 14 CFR 21.3 or under the accident reporting provisions of 49 CFR Part 830 and if it holds any of the following: SRRs: 121.703(f)	
1.7.1	A Type Certificate (including a Supplemental Type Certificate)? SRRs: 121.703(f)	☐ Yes ☐ No, Explain ☐ Not Applicable
1.7.2	A Parts Manufacturer Approval? SRRs: 121.703(f)	Yes No, Explain Not Applicable
1.7.3	A Technical Standard Order Authorization? SRRs: 121.703(f)	Yes No, Explain Not Applicable
1.7.4	A licensee of a type certificate Holder? SRRs: 121.703(f) Related Design JTIs: 1. Check that the certificate holder provide information that if the certificate holder is also the holder of the following, they need not report a failure, malfunction, or defect under 14 CFR 121.705 if the failure, malfunction, or defect has been reported by them under 14 CFR 21.3 or under the accident reporting provisions of 14 CFR Part 830 A Type Certificate A Supplemental Type Certificate A Parts Manufacturer Approval A Technical Standard Order Authorization The licensee of a type Certificate Holder Sources: 121.135(a)(1); 121.703(f) Interfaces: 1.2.4(AW)	Yes No, Explain Not Applicable
1.8.	Does the certificate holder specify it will not withhold a report required by 14	Yes

	CFR 121.703 even though all information required by that section is not available?	☐ No, Explain
	SRRs: 121.703(g)	
1.9.	Does the certificate holder specify when it gets additional information, including information from the manufacturer or other agency, concerning a report required by 14 CFR 121.703, it shall expeditiously submit the information as a supplement to the first report and reference the date and place of submission of the first report? SRRs: 121.703(h) Related Design JTIs: 1. Check that the certificate holder includes instructions and information necessary to allow personal concerned to perform the duty and responsibility that when the Certificate Holder gets additional information, including information from the manufacturer or other agency, concerning a report required by 14 CFR 121.703, it shall expeditiously submit it as a supplement to the first report. Sources: 121.135(a)(1); 121.703(h) 2. Check that the certificate holder includes instructions and information necessary to allow personal concerned to perform the duty and responsibility that a supplemental report shall reference the date and place of submission of the first report. Sources: 121.135(a)(1); 121.703(h)	☐ Yes ☐ No, Explain
2.	Does the certificate holder's manual contain general policies for the Service Difficultly Reports process that comply with the SRRs?	☐ Yes ☐ No, Explain
	SRRs: 121.135(b)(1) Related Design JTIs:	
	 Check that the Certificate Holder provides a general policy to report the occurrence or detection of each failure, malfunction, or defect as required by 14 CFR 121.703. Sources: 121.135(b)(1); 121.703(a) 	
3.	Does the certificate holder's manual reference the appropriate Federal Aviation Regulations listed in the Supplemental Information section of this safety attribute inspection (SAI)? SRRs: 121.135(b)(3)	☐ Yes ☐ No, Explain
4.	Does the certificate holder's manual contain the duties and responsibilities for personnel who will accomplish the Service Difficultly Reports process? SRRs: 121.135(b)(2)	Yes No, Explain
5.	Does the certificate holder's manual include instructions and information for personnel to comply with the requirements of the Service Difficultly Reports process? SRRs: 121.135(a)(1)	Yes No, Explain

SAI Section 1 - Procedures Attribute Drop-Down Menu

- 1. No procedures, policy, instructions or information specified.
- 2. Procedures or instructions and information do not identify (who, what, when, where, how).
- 3. Procedures, policy or instructions and information do not comply with CFR.
- 4. Procedures, policy or instructions and information do not comply with FAA policy and guidance.
- 5. Procedures, policy or instructions and information do not comply with other documentation (e.g., manufacturer's data, Jeppesen's Charts, etc.).
- 6. Procedures, policy or instructions and information unclear or incomplete.
- 7. Documentation quality (e.g., unreadable or illegible).
- 8. Procedures, policy or instructions and information inconsistent across Certificate Holder manuals (FOM Flight Operations Manual to GMM General Maintenance Manual, etc.).
- 9. Procedures, policy or instructions and information inconsistent across media (e.g., paper, microfiche, electronic).
- 10. Resource requirements incomplete (personnel, facilities, equipment, technical data).
- 11. Other.

SAI Section 2 - Controls Attribute

Objective: Controls are checks and restraints designed into a process to ensure a desired result. The questions in this section of the DCT are designed to assist the inspector in determining if checks and restraints are designed into the process to ensure the desired result is achieved. Controls should be written into the system to ensure that the most important policies, procedures, or instructions and information will be followed.

Controls may be in the form of administrative controls, which are secondary or supplemental written procedures. Like written procedures, administrative controls also need to provide answers to questions regarding who, what, when, where, and how. Controls may also be in the form of engineered controls, such as automated features or mechanical actions or devices (i.e., safety devices, warning devices, etc.).

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Tasi	ks
	To meet this objective, the inspector must accomplish the following tasks:
1.	Review the control questions below.
2.	Review the certificate holder's policies, procedures, instructions, and information to gain an understanding of the controls that it has documented.

Questions		
	To meet this objective, the inspector must answer the following questions:	
1.1.	Are the following controls built into the Service Difficultly Reports process:	
1.2.	Is there a control or controls in place to ensure that the certificate holder submits Service Difficultly Reports (SDR) within the time frames in 14 CFR 121.703?	Yes No, Explain
1.3.	Is there a control or controls in place to ensure that the certificate holder reports the occurrences as specified in 14 CFR 121.703?	☐ Yes ☐ No, Explain
1.4.	Is there a control or controls in place to ensure that the certificate holder's Service Difficultly Reports (SDR) include the detailed information as specified in 14 CFR 121.703?	☐ Yes ☐ No, Explain
2.	Does the certificate holder have a documented method for assessing the impact of any changes made to the controls in the Service Difficultly Reports process?	Yes No, Explain

	SAI Section 2 - Controls Attribute Drop-Down Menu	
1.	No controls specified.	
2.	Documentation for the controls do not identify (who, what, when, where, how).	
3.	Controls incomplete.	
4.	Controls could be circumvented.	
5.	Controls could be unenforceable.	
6.	Resource requirements incomplete (personnel, facilities, equipment, technical data).	
7.	Other.	

SAI Section 3 - Process Measurement Attribute

Objective: Process measurements are used by the certificate holder to measure and assess its processes, to identify and correct problems or potential problems, and to make improvements to the processes. The questions in this section of the DCT are designed to assist the inspector in determining if the certificate holder measures or assesses information to identify, analyze, and document potential problems with the process. Process measurements are a certificate holder's internal evaluation or auditing of the most important policies, procedures, or instructions and information associated with an element.

To prevent the duplication of work, process measurements are most commonly addressed through a combination of auditing features contained in both the certificate holder's safety program/internal evaluation program (for operations and cabin safety related issues) and the auditing function of the Continuous Analysis and Surveillance System (for airworthiness or maintenance/inspection related issues). The director of safety and the quality assurance department often work together to accomplish this function for the certificate holder. This approach requires amendment of the safety program/internal evaluation program audit forms or checklists and the Continuous Analysis and Surveillance System audit forms or checklists to include the specific process measurements for each element.

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Tasl	ks
	To meet this objective, the inspector must accomplish the following tasks:
1.	Review the process measurement questions below.
2.	Review the certificate holder's policies, procedures, instructions, and information to gain an understanding of the process measurements that it has documented.

Que	Questions		
	To meet this objective, the inspector must answer the following questions:		
1.	Does the certificate holder's Service Difficultly Reports process include the following process measurements:		
1.1.	Is there a process measurement or process measurements that would reveal if the certificate holder failed to submit Service Difficultly Reports (SDR) within the time frames in 14 CFR 121.703?	Yes No, Explain	
1.2.	Is there a process measurement or process measurements that would reveal if the certificate holder failed to report the occurrences as specified in 14 CFR 121.703?	Yes No, Explain	
1.3.	Is there a process measurement or process measurements that would reveal if the certificate holder's Service Difficultly Reports (SDR) did not include the detailed information as specified in 14 CFR 121.703?	Yes No, Explain	
2.	Is there a process measurement or process measurements that would reveal if the certificate holder s policy, procedures, instructions, and information were not followed?	Yes No, Explain	
3.	Does the certificate holder document its process measurement results?	☐ Yes ☐ No, Explain	
4.	Does the certificate holder use it's process measurement results to improve its programs?	☐ Yes ☐ No, Explain	
5.	Does the organization that conducts the process measurements have direct	Yes	

access to the person with responsibility for the Service Difficultly Reports process?	☐ No, Explain
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SAI Section 3 - Process Measurement Attribute Drop-Down Menu

- 1. No process measurements specified.
- 2. Documentation for the process measurements does not identify (who, what, when, where, how).
- 3. Inability to identify negative findings.
- 4. No provisions for implementing corrective actions.
- 5. Ineffective follow-up to determine effectiveness of corrective actions.
- 6. Resources requirements (personnel, facilities, equipment, technical data).
- 7. Other.

SAI Section 4 - Interfaces Attribute

Objective: Interfaces are used by the certificate holder to identify and manage the interactions between processes. The questions in this section of the DCT are designed to assist the inspector in determining whether or not interactions between the policies, procedures, or instructions and information associated with other independent processes within the certificate holder's organization are documented. Written policies, procedures, or instructions and information that are interrelated and located in different areas within the certificate holder's system must be consistent and complement each other. For the interfaces to be effectively managed, the certificate holder's system should identify and document the interfaces.

Tasks				
	To meet this objective, the inspector must accomplish the following tasks:			
1.	Review the interfaces associated with the Service Difficultly Reports process that have been identified along with the individual questions in section 1, Procedures, of this DCT.			
2.	Review the certificate holder's policies, procedures, instructions, and information to gain an understanding of the interfaces that it has documented.			

Questions				
	To meet this objective, the inspector must answer the following questions: Note: The design job task items (JTIs) displayed with the questions in section 1, Procedures, of this DCT identify potential interfaces (by element number) for this element.			
1.	Does the certificate holder s system properly address the interfaces that are identified along with the questions in section 1, Procedures, of this DCT?	☐ Yes ☐ No, Explain		
2.	Does the certificate holder document a method for assessing the impact of any changes to the associated interfaces within the Service Difficultly Reports process?	☐ Yes ☐ No, Explain		

SAI Section 4 - Interfaces Attribute Drop-Down Menu

- 1. No interfaces specified.
- 2. The following interfaces not identified within the Certificate Holder's manual system:
- 3. Interfaces listed are inaccurate.
- 4. Specific location of interfaces not identified within the manual system.
- 5. Other

SAI Section 5 - Management Responsibility & Authority Attributes

Objective: The questions in this section of the DCT address the responsibility and authority of the process. They are designed to assist the inspector in determining if there is a clearly identifiable, qualified, and knowledgeable person who is responsible for the process, is answerable for the quality of the process, and has the authority to establish and modify the process. (The person with the authority may or may not be the person with the responsibility.)

may of may not be the person with the responsibility.)			
Tasks			
	To meet this objective, the inspector must accomplish the following tasks:		
1.	Identify the person who has overall responsibility for the Service Difficultly Reports process.		
2.	Identify the person who has overall authority for the Service Difficultly Reports process.		
3.	Review the duties and responsibilities of the person(s), documented in the certificate holder's manual.		
4.	Review the appropriate organizational chart.		

Questions				
	To meet this objective, the inspector must answer the following questions:			
1.	Does the certificate holder clearly identify who is responsible for the quality of the Service Difficultly Reports process?	Yes No, Explain Name/Title:		
2.	Does the certificate holder clearly identify who has authority to establish and modify the policies, procedures, instructions, and information for the Service Difficultly Reports process?	Yes No, Explain Name/Title:		
3.	Does the certificate holder's manual include the duties and responsibilities of those who manage the work required by the Service Difficultly Reports process? SRRs: 121.135(b)(2)	☐ Yes ☐ No, Explain		
4.	Does the certificate holder's manual include instructions and information for those who manage the work required by the Service Difficultly Reports process? SRRs: 121.135(a)(1)	☐ Yes ☐ No, Explain		
5.	Does the certificate holder clearly and completely document the responsibility for this position?	☐ Yes ☐ No, Explain		
6.	Does the certificate holder clearly and completely document the authority for this position?	Yes No, Explain		
7.	Does the certificate holder clearly and completely document their qualification standards for the person having responsibility for the Service Difficultly Reports process?	☐ Yes ☐ No, Explain		
8.	Does the certificate holder clearly and completely document their qualification standards for the person having authority to establish and modify the certificate holder's policies, procedures, instructions, and information for the Service Difficultly Reports process?	Yes No, Explain		
9.	Does the certificate holder clearly and completely document the procedures for delegation of authority for the Service Difficultly Reports process?	☐ Yes ☐ No, Explain		

SAI Section 5 - Management Responsibility & Authority Attributes Drop-Down Menu

- 1. Not documented.
- 2. Documentation unclear.
- 3. Documentation incomplete.
- 4. Other.