Safety Attribute Inspection (SAI) Data Collection Tool 1.3.3 Maintenance Facility / Main Maintenance Base (AW)

ELEMENT SUMMARY INFORMATION

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

• To ensure that competent personnel and adequate facilities and equipment are provided for the proper performance of maintenance, preventive maintenance, and alterations.

Objective (FAA oversight):

- To determine if the certificate holder s Maintenance Facility/Main Maintenance Base 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 Maintenance Facility/Main Maintenance Base process incorporates the safety attributes.
- To identify any shortfalls in the certificate holder's Maintenance Facility/Main Maintenance Base process.

Specific Instructions:

• Intentionally left blank

SUPPLEMENTAL INFORMATION

Specific Regulatory Requirements (SRRs):

- SRRs:
 - 119.47(a) 119.47(b) 121.105 121.123 121.135(a)(1) 121.135(b)(1) 121.135(b)(2) 121.135(b)(3) 121.367(b)

Related CFRs & FAA Policy/Guidance:

- Related CFRs:
 Intentionally left blank
- FAA Policy/Guidance: FAA Order 8900.1, Vol 6, Ch 2, Sec 26

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.).

Tas	Tasks	
	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 Maintenance Facility/Main Maintenance Base process.	
3.	Review the certificate holder's Maintenance Facility/Main Maintenance Base 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.	

Que	Questions	
	To meet this objective, the inspector must answer the following questions:	
1.	Does the certificate holder's Maintenance Facility/Main Maintenance Base process meet the specific regulatory and FAA policy requirements:	
1.1.	Does the certificate holder address the requirement for its concerned personnel to notify the certificate-holding district office 30 days before it proposes to establish or change the location of its main maintenance base? SRRs: 119.47(b)	☐ Yes ☐ No, Explain
1.2.	Does the certificate holder's inspection program contain instructions and information necessary to ensure that competent personnel and adequate facilities and equipment are provided for the proper performance of maintenance, preventive maintenance, and alterations? SRRs: 121.135(a)(1); 121.367(b)	☐ Yes ☐ No, Explain
1.3.	Does the certificate holder's program covering other maintenance, preventive maintenance, and alterations contain instructions and information necessary to ensure that competent personnel and adequate facilities and equipment are provided for the proper performance of maintenance, preventive maintenance, and alterations? SRRs: 121.135(a)(1); 121.367(b)	☐ Yes ☐ No, Explain
1.4.	Does the certificate holder specify how the certificate holder will show that competent personnel and adequate facilities and equipment (including spare parts and materials) are provided along the certificate holder's route as are necessary for the proper maintenance and preventive maintenance of airplanes and auxiliary equipment used in domestic or flag operations? SRRs: 121.105; 121.135(a)(1)	Yes No, Explain Not Applicable

1.5.	compet parts a	ne certificate holder specify how the certificate holder will show that tent personnel and adequate facilities and equipment (including spare nd materials) are available for the proper maintenance and preventive nance of aircraft and auxiliary equipment used in supplemental ons?	☐ Yes ☐ No, Explain ☐ Not Applicable
	SRRs:	121.123; 121.135(a)(1)	
1.6.	proces	ne certificate holder's Maintenance Facility/Main Maintenance Base s comply with the guidance contained in FAA Order 8900.1?	☐ Yes ☐ No, Explain
		d Design JTIs:	
	1.	Check that the certificate holder's manual system contains information pertaining to the use of the manufacture's maintenance manual recommendations to determine what special equipment should be used at the maintenance facility.	
		Sources: FAA Order 8900.1; Vol 6; Ch 2; Sec 26; Para 6-741B	
		<i>Interfaces:</i> 1.3.1(AW); 1.3.2(AW); 1.3.4(AW); 1.3.7(AW); 1.3.10(AW); 1.3.16(AW); 3.1.4(OP); 5.1.1(AW); 5.1.5(OP); 5.1.6(OP); 7.1.6(AW)	
	2.	Check that the certificate holder's manual system contains information pertaining to the use of the manufacture's maintenance manual recommendations to determine what special housing is necessary to perform the work at the maintenance facility.	
		Sources: FAA Order 8900.1; Vol 6; Ch 2; Sec 26; Para 6-741B	
		Interfaces: 1.3.1(AW); 1.3.2(AW); 1.3.4(AW); 1.3.7(AW); 1.3.10(AW); 1.3.16(AW); 3.1.4(OP); 5.1.1(AW); 5.1.5(OP); 5.1.6(OP); 7.1.6(AW)	
	3.	Check that the certificate holder's manual system contains information pertaining to the use of the manufacture's maintenance manual recommendations to determine what special environmental conditions are necessary to perform the work at the maintenance facility.	
		Sources: FAA Order 8900.1; Vol 6; Ch 2; Sec 26; Para 6-741B	
		Interfaces: 1.3.1(AW); 1.3.2(AW); 1.3.4(AW); 1.3.7(AW); 1.3.10(AW); 1.3.16(AW); 3.1.4(OP); 5.1.1(AW); 5.1.5(OP); 5.1.6(OP); 7.1.6(AW)	
	4.	Check the certificate holder's manual system has contains information how it ensures the hangar facility's staffing reflects the complexity of the work being performed.	
		Sources: FAA Order 8900.1; Vol 6; Ch 2; Sec 26; Para 6-744B	
		Interfaces: 1.3.1(AW); 1.3.2(AW); 1.3.4(AW); 1.3.7(AW); 1.3.10(AW); 1.3.16(AW); 3.1.4(OP); 5.1.1(AW); 5.1.5(OP); 5.1.6(OP); 7.1.6(AW)	
	5.	Check that the certificate holder's manual system contains information of how the certificate holder ensures the hangar facility's lighting is adequate.	
		Sources: FAA Order 8900.1; Vol 6; Ch 2; Sec 26; Para 6-744D5j	
		Interfaces: 1.3.1(AW); 1.3.2(AW); 1.3.4(AW); 1.3.7(AW); 1.3.10(AW); 1.3.16(AW); 3.1.4(OP); 5.1.1(AW); 5.1.5(OP); 5.1.6(OP); 7.1.6(AW)	
	6.	Check that the certificate holder's manual system contains information of how the certificate holder ensures the hangar facility's general housekeeping is adequate.	
		Sources: FAA Order 8900.1; Vol 6; Ch 2; Sec 26; Para 6-744D5j	
		Interfaces: 1.3.1(AW); 1.3.2(AW); 1.3.4(AW); 1.3.7(AW); 1.3.10(AW); 1.3.16(AW); 3.1.4(OP); 5.1.1(AW); 5.1.5(OP); 5.1.6(OP); 7.1.6(AW)	
	7.	Check that the certificate holder's manual system contains information how the certificate holder ensures the support shop's (avionics, sheet metal, engine etc.) staffing reflects the complexity of the work being performed.	

		Sources: FAA Order 8900.1; Vol 6; Ch 2; Sec 26; Para 6-744D5	
		Interfaces: 1.3.1(AW); 1.3.2(AW); 1.3.4(AW); 1.3.7(AW); 1.3.10(AW); 1.3.16(AW); 3.1.4(OP); 5.1.1(AW); 5.1.5(OP); 5.1.6(OP); 7.1.6(AW)	
	8.	Check that the certificate holder's manual system contains how the certificate holder ensures the support shop's (avionics, sheet metal, engine etc.) lighting is adequate.	
		Sources: FAA Order 8900.1; Vol 6; Ch 2; Sec 26; Para 6-744D5j	
		Interfaces: 1.3.1(AW); 1.3.2(AW); 1.3.4(AW); 1.3.7(AW); 1.3.10(AW); 1.3.16(AW); 3.1.4(OP); 5.1.1(AW); 5.1.5(OP); 5.1.6(OP); 7.1.6(AW)	
	9.	Check that the certificate holder's manual system contains information of how the Certificate Holder ensures the support shop's (avionics, sheet metal, engine etc.) ventilation is adequate.	
		Sources: FAA Order 8900.1; Vol 6; Ch 2; Sec 26; Para 6-744D5j	
		Interfaces: 1.3.1(AW); 1.3.2(AW); 1.3.4(AW); 1.3.7(AW); 1.3.10(AW); 1.3.16(AW); 3.1.4(OP); 5.1.1(AW); 5.1.5(OP); 5.1.6(OP); 7.1.6(AW)	
	10.	Check that the certificate holder's manual system contains information of how the certificate holder ensures the support shop's (avionics, sheet metal, engine etc.) general housekeeping is adequate.	
		Sources: FAA Order 8900.1; Vol 6; Ch 2; Sec 26; Para 6-744D5j	
		<i>Interfaces:</i> 1.3.1(AW); 1.3.2(AW); 1.3.4(AW); 1.3.7(AW); 1.3.10(AW); 1.3.16(AW); 3.1.4(OP); 5.1.1(AW); 5.1.5(OP); 5.1.6(OP); 7.1.6(AW)	
	11.	Check that the certificate holder's manual system contains information of how the certificate holder ensures that the hangar ground support equipment is appropriate for the work being performed.	
		Sources: FAA Order 8900.1; Vol 6; Ch 2; Sec 26; Para 6-744D5j	
		Interfaces: 1.3.1(AW); 1.3.2(AW); 1.3.4(AW); 1.3.7(AW); 1.3.10(AW); 1.3.16(AW); 3.1.4(OP); 5.1.1(AW); 5.1.5(OP); 5.1.6(OP); 7.1.6(AW)	
	12.	Check that the certificate holder's manual contains information that describes how the certificate holder ensures the hangar facilities are adequate for the work being performed.	
		Sources: FAA Order 8900.1; Vol 6; Ch 2; Sec 26; Para 6-744D5j	
		<i>Interfaces:</i> 1.3.1(AW); 1.3.2(AW); 1.3.4(AW); 1.3.7(AW); 1.3.10(AW); 1.3.16(AW); 3.1.4(OP); 5.1.1(AW); 5.1.5(OP); 5.1.6(OP); 7.1.6(AW)	
2.		ne certificate holder's manual contain general policies for the Maintenance /Main Maintenance Base process that comply with the SRRs?	☐ Yes ☐ No, Explain
	SRRs:	119.47(a); 119.47(b); 121.105; 121.123; 121.135(b)(1); 121.367(b)	
3.	Regula	ne certificate holder's manual reference the appropriate Federal Aviation tions listed in the Supplemental Information section of this safety attribute ion (SAI)?	☐ Yes ☐ No, Explain
	SRRs:	121.135(b)(3)	
4.	person process		☐ Yes ☐ No, Explain
	SRRs:	121.135(b)(2)	
5.	person Mainter	ne certificate holder's manual include instructions and information for nel to meet the requirements of the Maintenance Facility/Main nance Base process?	☐ Yes ☐ No, Explain
	SRRs:	121.135(a)(1)	

	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.).

Tasks	
	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.

Ques	Questions	
	To meet this objective, the inspector must answer the following questions:	
1.	Are the following controls built into the Maintenance Facility/Main Maintenace Base process:	
1.1.	Is there a control or controls in place to ensure that competent personnel and adequate facilities and equipment are provided for the proper performance of maintenance, preventive maintenance, and alterations?	☐ Yes ☐ No, Explain
1.2.	Is there a control or controls in place to ensure that the certificate holder is able to show that competent personnel and adequate facilities and equipment are available at such points along its route as are necessary for proper maintenance and preventive maintenance of airplanes and auxiliary equipment used in domestic or flag operations?	 Yes No, Explain Not Applicable
1.3.	Is there a control or controls in place to ensure that the certificate holder is able to show that competent personnel and adequate facilities and equipment are available for proper maintenance and preventive maintenance of aircraft and auxiliary equipment used in supplemental operations?	☐ Yes ☐ No, Explain ☐ Not Applicable
2.	Does the certificate holder have a documented method for assessing the impact of any changes made to the controls in the Maintenance Facility/Main Maintenance Base 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.

Tas	Tasks	
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.	

Ques	stions	
	To meet this objective, the inspector must answer the following questions:	
1.	Does the certificate holder's Maintenance Facility/Main Maintenance Base process include the following process measurements:	
1.1.	Is there a process measurement or process measurements that would reveal when competent personnel and adequate facilities and equipment were not provided for the proper performance of maintenance, preventive maintenance, and alterations?	☐ Yes ☐ No, Explain
1.2.	Is there a process measurement or process measurements that would reveal if the certificate holder was unable to show that competent personnel and adequate facilities and equipment were available at such points along its route as are necessary for proper maintenance and preventive maintenance of airplanes and auxiliary equipment used in domestic or flag operations?	Yes No, Explain Not Applicable
1.3.	Is there a process measurement or process measurements that would reveal if the certificate holder was unable to show that competent personnel and adequate facilities and equipment were available for proper maintenance and preventive maintenance of aircraft and auxiliary equipment used in supplemental operations?	Yes No, Explain Not Applicable
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 its process measurement results to improve its	Yes

	programs?	🗌 No, Explain
5.	Does the organization that conducts the process measurements have direct access to the person with responsibility for the Maintenance Facility/Main Maintenance Base process?	☐ Yes ☐ No, Explain

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 Maintenance Facility/Main Maintenance Base process that have been identified along with the individual questions in section 1, Procedures, of this DCT.	
2.	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 Maintenance Facility/Main Maintenance Base 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.)

Tasks		
	To meet this objective, the inspector must accomplish the following tasks:	
1.	Identify the person who has overall responsibility for the Maintenance Facility/Main Maintenance Base process.	
2.	Identify the person who has overall authority for the Maintenance Facility/Main Maintenance Base 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 Maintenance Facility/Main Maintenance Base 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 Maintenance Facility/Main Maintenance Base 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 Maintenance Facility/Main Maintenance Base 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 Maintenance Facility/Main Maintenance Base 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 its qualification standards for the person having responsibility for the Maintenance Facility/Main Maintenance Base process?	☐ Yes ☐ No, Explain		
8.	Does the certificate holder clearly and completely document its qualification standards for the person having authority to establish and modify the certificate holder's policies, procedures, instructions, and information for the Maintenance Facility/Main Maintenance Base process?	☐ Yes ☐ No, Explain		

Does the certificate holder clearly and completely document the procedures for delegation of authority for the Maintenance Facility/Main Maintenance Base process?	☐ Yes ☐ No, Expla	n
	□ No, Ex	plair

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

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