Safety Attribute Inspection (SAI) Data Collection Tool
4.2.8 Simulators / Training Devices (OP)

ELEMENT SUMMARY INFORMATION

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

- To ensure that simulators, training devices and training aids meet the requirements of the Air Carrier's FAA Approved Training Program.

Objective (FAA oversight):

- To determine if the certificate holder's Simulators/Training Devices process meets all applicable requirements of Title 14 of the code of the Federal Regulations (14CFR) and FAA policies.

- To determine if the certificate holder's Simulators/Training Devices process incorporates the safety attributes.

- To identify any shortfalls in the certificate holder's Simulators/Training Devices process.

Specific Instructions:

- Intentionally left blank

SUPPLEMENTAL INFORMATION

Specific Regulatory Requirements (SRRs):

- SRRs:
  121.135(a)(1)
  121.135(b)(1)
  121.135(b)(2)
  121.135(b)(3)
  121.407(a)
  121.407(c)
  121.407(d)
  121.409(b)
  121.409(d)
  121.921(a)(1)
  121.921(a)(2)
  121.921(a)(3)
  121.921(a)(4)
  121.921(b)(1)
  121.921(b)(2)
  121.921(b)(3)

Related CFRs & FAA Policy/Guidance:

- Related CFRs:
  Intentionally left blank

- FAA Policy/Guidance:
  FAA Order 8900.1, Volume 3, Chapter 19
  AC 120-40B

- FAA Policy/Guidance:
  AC 120-45A

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.).

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 Simulators/Training Devices process.
3.	Review the certificate holder's Simulators/Training Devices 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.

Questions		
	To meet this objective, the inspector must answer the following questions:	

1.1.	Does the certificate holder specify the approval and maintenance requirements for simulators and training devices?
	SRRs: 121.407(a)
	Related Design JTIs:
	1. Check that the certificate holder uses an airplane simulator approved for a training course.
	    Sources: 121.407(a)(1)(i)
	    Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)
	2. Check that the certificate holder uses an approved airplane simulator, in a training course, and is specifically approved for the certificate holder.
	    Sources: 121.407(a)(1)(i)
	    Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)
	3. Check that the certificate holder uses an approved airplane simulator, in a training course, and is specifically approved for the type airplane for which the training is being conducted.
	    Sources: 121.407(a)(1)(ii)
	    Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)
	4. Check that the certificate holder uses an approved airplane simulator, in a training course, and is specifically approved for the type airplane for which the check is being conducted.
	    Sources: 121.407(a)(1)(ii)
		☐ Yes
		☐ No, Explain

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

5. Check that the certificate holder uses an approved airplane simulator, in a training course, and is specifically approved for the particular variation within type for which the training is being conducted.

Sources: 121.407(a)(1)(ii)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

6. Check that the certificate holder uses an approved airplane simulator, in a check, and is specifically approved for the particular variation within type for which the check is being conducted.

Sources: 121.407(a)(1)(ii)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

7. Check that the certificate holder uses an approved airplane simulator, in a training course, and is specifically approved for the particular maneuver involved.

Sources: 121.407(a)(1)(iii)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

8. Check that the certificate holder uses an approved airplane simulator, in a training course, and is specifically approved for the particular procedure involved.

Sources: 121.407(a)(1)(iii)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

9. Check that the certificate holder uses an approved airplane simulator, in training, is and specifically approved for the left seat crewmember functions involved.

Sources: 121.407(a)(1)(iii)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

10. Check that the certificate holder uses an approved airplane simulator, in training, and is specifically approved for the right seat crewmember functions involved.

Sources: 121.407(a)(1)(iii)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

11. Check that the certificate holder uses an approved airplane simulator, in checks, and is specifically approved for the particular maneuver involved.

Sources: 121.407(a)(1)(iii)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

12. Check that the certificate holder uses an approved airplane simulator, in checks, and is specifically approved for the particular procedure involved.

Sources: 121.407(a)(1)(iii)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

13. Check that the certificate holder uses an approved airplane simulator, in checks, and is specifically approved for the left seat crewmember

functions involved.

Sources: 121.407(a)(1)(iii)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

14. Check that the certificate holder uses an approved airplane simulator, in checks, and is specifically approved for the right seat crewmember functions involved.

Sources: 121.407(a)(1)(iii)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

15. Check that the certificate holder uses a training device that is used in a training course.

Sources: 121.407(a)(1)(i)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

16. Check that the certificate holder uses a training device specifically approved for its use in a training course.

Sources: 121.407(a)(1)(i)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

17. Check that the certificate holder uses a training device specifically approved for the type airplane for which the training is being conducted.

Sources: 121.407(a)(1)(ii)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

18. Check that the certificate holder uses a training device specifically approved for the type airplane for which the check is being conducted.

Sources: 121.407(a)(1)(ii)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

19. Check that the certificate holder uses a training device specifically approved for the particular variation within type for which the training is being conducted.

Sources: 121.407(a)(1)(ii)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

20. Check that the certificate holder uses a training device specifically approved for the particular variation within type for which the check is being conducted.

Sources: 121.135(b)(1); 121.407(a)(1)(iii)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

21. Check that the certificate holder uses a training device specifically approved for the training on a particular maneuver.

Sources: 121.135(b)(1); 121.407(a)(1)(iii)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

22. Check that the certificate holder uses a training device specifically approved for the particular procedures training involved.

Sources: 121.135(b)(1); 121.407(a)(1)(iii)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP);

	5.1.8(OP)	
	23. Check that the certificate holder uses a training device specifically approved for the left seat crewmember functions training. *Sources:* 121.135(b)(1); 121.407(a)(1)(iii) *Interfaces:* 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)	
	24. Check that the certificate holder uses a training device specifically approved for the right seat crewmember functions training.. *Sources:* 121.135(b)(1); 121.407(a)(1)(iii) *Interfaces:* 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)	
	25. Check that the certificate holder uses a training device specifically approved for the particular maneuver being checked. *Sources:* 121.135(b)(1); 121.407(a)(1)(iii) *Interfaces:* 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)	
	26. Check that the certificate holder uses a training device specifically approved for the particular procedure being checked. *Sources:* 121.135(b)(1); 121.407(a)(1)(iii) *Interfaces:* 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)	
	27. Check that the certificate holder uses a training device specifically approved for the left seat crewmember functions being checked. *Sources:* 121.135(b)(1); 121.407(a)(1)(iii) *Interfaces:* 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)	
	28. Check that the certificate holder uses a training device that is used in checks specifically approved for the right seat crewmember functions involved. *Sources:* 121.135(b)(1); 121.407(a)(1)(iii) *Interfaces:* 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)	
1.	Does the certificate holder's Simulators/Training Devices process meet the specific regulatory and FAA policy requirements:	
1.2.	Does the certificate holder specify the conditions under which a simulator may be used instead of an airplane? SRRs: 121.407(c) *Related Design JTIs:* 1. Check that the certificate holder has a policy specifying how the airplane simulator, to be used instead of the airplane to satisfy the in-flight requirements of 121.439 and 121.441 and Appendices E and F of this Part, is approved under this section. *Sources:* 121.135(b)(1); 121.407(c)(1) *Interfaces:* 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP) 2. Check that the certificate holder has a policy specifying how the airplane simulator, to be used, instead of the airplane, to satisfy the in-flight requirements of 121.439 and 121.441 and Appendices E and F of this Part meets the appropriate simulator requirements of appendix H.	☐ Yes ☐ No, Explain ☐ Not Applicable

	Sources: 121.135(b)(1); 121.407(c)(1) *Interfaces:* 4.2.3(OP); 4.2.6(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)	

1.3.	Does the certificate holder require that a type-specific simulator be used for low-altitude windshear training?
	
	SRRs: 121.407(d); 121.409(d)
	
	Related Design JTIs:
	1. Check that the certificate holder uses an airplane simulator approved under this section, instead of the airplane, to satisfy the pilot flight training requirements prescribed in the certificate holder's approved low-altitude windshear flight training program.
	    Sources: 121.135(b)(1); 121.407(d)
	    Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)
		☐ Yes
		☐ No, Explain
		☐ Not Applicable

1.4.	Does the certificate holder specify the content of training courses using airplane simulators? SRRs: 121.409(b)	☐ Yes ☐ No, Explain
1.5.	Does the certificate holder specify that each flight training device or airplane simulator that will be used in an Advanced Qualification Program (AQP) for any of the purposes set forth in FAR 121.921 must be evaluated by the FAA for assignment of a flight training device or airplane simulator for a particular qualification level? SRRs: 121.921(a)(1); 121.921(a)(2); 121.921(a)(3); 121.921(a)(4)	☐ Yes ☐ No, Explain ☐ Not Applicable
1.6.	Does the certificate holder specify that any training equipment that is intended to be used in an AQP for purposes other than those set forth in FAR 121.921 (a) must be approved by the FAA for its intended use? SRRs: 121.921(b)(1)	☐ Yes ☐ No, Explain ☐ Not Applicable
1.7.	Does the certificate holder specify that for approval of training equipment under FAR 121.921 the certificate holder must identify the device by its nomenclature? SRRs: 121.921(b)(2)	☐ Yes ☐ No, Explain ☐ Not Applicable
1.8.	Does the certificate holder require that each training device approved for use in an AQP must be part of a continuing program to provide for its serviceability and fitness to perform its intended function as approved by the FAA? SRRs: 121.921(b)(3)	☐ Yes ☐ No, Explain ☐ Not Applicable

1.9.	Does the certificate holder's Simulators/Training Devices process comply with the guidance contained in FAA Order 8900.1, Volume 3, Chapter 19?
	
	Related Design JTIs:
	1. Check that the certificate holder has instructions specifying how the simulator is evaluated by the National Simulator Program Manager.
	    Sources: FAA Order 8900.1, Vol 3, Ch 19, Sec 6, Para 3-1235
	    Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)
	2. Check that the certificate holder uses a simulator that is approved by the operators Principal Operations Inspector (POI).
	    Sources: FAA Order 8900.1, Vol 3, Ch 19, Sec 6, Para 3-1235
	    Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP);
		☐ Yes
		☐ No, Explain

		5.1.8(OP)	
	3.	Check that the Certificate holder has a policy specifying how the simulator is qualified by the National Simulator Program Manager. *Sources:* FAA Order 8900.1, Vol 3, Ch 19, Sec 6, Para 3-1235 *Interfaces:* 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)	
	4.	Check that the certificate holder has instructions specifying how emergency exits and passenger oxygen systems are trained through use of a static airplane. *Sources:* FAA Order 8900.1, Vol 3, Ch 19, Sec 4, Para 3-1179 *Interfaces:* 3.1.1(OP); 3.1.2(OP); 4.2.3(OP); 4.2.4(OP); 4.2.9(OP); 4.3.2(OP); 7.2.1(OP)	
	5.	Check that the certificate holder uses an approved cabin mockup (training device) for operational doors, window exits, slides, rafts and other equipment used in emergency drill training. *Sources:* FAA Order 8900.1, Vol 3, Ch 19, Sec 4, Para 3-1179 *Interfaces:* 3.1.1(OP); 3.1.2(OP); 4.2.3(OP); 4.2.4(OP); 4.2.9(OP); 4.3.2(OP); 7.2.1(OP)	
	6.	Check that the certificate holder uses an approved cabin mockup (training device) that is representative of the operator's aircraft with appropriate equipment installed. *Sources:* FAA Order 8900.1, Vol 3, Ch 19, Sec 4, Para 3-1179 *Interfaces:* 3.1.1(OP); 3.1.2(OP); 4.2.3(OP); 4.2.4(OP); 4.2.9(OP); 4.3.2(OP); 7.2.1(OP)	
	7.	Check that the certificate holder uses an approved cabin mockup (training device) that should be full-scale except for length. *Sources:* FAA Order 8900.1, Vol 3, Ch 19, Sec 4, Para 3-1179 *Interfaces:* 3.1.1(OP); 3.1.2(OP); 4.2.3(OP); 4.2.4(OP); 4.2.9(OP); 4.3.2(OP); 7.2.1(OP)	
	8.	Check that the certificate holder uses an approved cabin mockup that replicates the forces required to open the emergency exit mockups which duplicate normal and emergency conditions with the slides or slide raft installed. *Sources:* FAA Order 8900.1, Vol 3, Ch 19, Sec 4, Para 3-1179 *Interfaces:* 3.1.1(OP); 3.1.2(OP); 4.2.3(OP); 4.2.4(OP); 4.2.9(OP); 4.3.2(OP); 7.2.1(OP)	
	9.	Check that the certificate holder uses an approved cabin mockup equipped with mechanisms and instructions required to operate the exits that should be representative of the operator's aircraft. *Sources:* FAA Order 8900.1, Vol 3, Ch 19, Sec 4, Para 3-1179 *Interfaces:* 3.1.1(OP); 3.1.2(OP); 4.2.3(OP); 4.2.4(OP); 4.2.9(OP); 4.3.2(OP); 7.2.1(OP)	
	10.	Check that the certificate holder uses a ground training device(s), with varying levels of sophistication used for systems integration training, that have been individually evaluated by the Principal Operations Inspector. *Sources:* FAA Order 8900.1, Vol 3, Ch 19, Sec 5, Para 3-1206 *Interfaces:* 3.1.1(OP); 3.1.2(OP); 4.2.3(OP); 4.2.4(OP); 4.2.9(OP); 4.3.2(OP); 7.2.1(OP)	
1.10.		Does the certificate holder's Simulators/Training Devices process comply with	☐ Yes

	the guidance contained in FAA Advisory Circular 120-40B?
	
	Related Design JTIs:
	
	1. Check that the certificate holder uses a simulator(s) evaluated under the National Simulator Evaluation Program using procedures and criteria from this Advisory Circular.
	    Sources: Advisory Circular 120-40B, dated 07/29/91, Paragraph 7a.
	    Interfaces: 4.2.3(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP)
	
	2. Check that the certificate holder uses an approved simulator(s) used for training or certification of airmen within an operator's training program.
	    Sources: Advisory Circular 120-40B, dated 07/29/91, Paragraph 7b.
	    Interfaces: 4.2.3(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP)
	
	3. Check that the certificate holder uses a simulator(s) specifically approved for the level of qualification for use within a specific training program.
	    Sources: Advisory Circular 120-40B, dated 07/29/91, Paragraph 7c.
	    Interfaces: 4.2.3(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP)
	
	4. Check that the certificate holder uses a simulator(s) located outside the United States used by U.S. operator's to train or certificate airmen from the United States.
	    Sources: Advisory Circular 120-40B, dated 07/29/91, Paragraph 7d.
	    Interfaces: 4.2.3(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP)
	
	5. Check that the certificate holder has instructions specifying how a simulator that has been previously qualified and approved at a particular level for an airplane type is not subject to the qualification process.
	    Sources: Advisory Circular 120-40B, dated 07/29/91, Paragraph 7e.
	    Interfaces: 4.2.3(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP)
		☐ No, Explain

1.11.	Does the certificate holder's Simulators/Training Devices process comply with the guidance contained in FAA Advisory Circular 120-45A?
	
	Related Design JTIs:
	
	1. Check that the certificate holder uses a training device(s) approved for the level of qualification for use within a specific training program.
	    Sources: Advisory Circular 120-45A, dated 02/05/92, Paragraph 5b.
	    Interfaces: 4.2.3(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP)
	
	2. Check that the certificate holder uses Level 6 and Level 7 training device(s) evaluated and qualified by the National Simulator Evaluation Program and approved by the Principal Operations Inspector.
	    Sources: Advisory Circular 120-45A, dated 02/05/92, Paragraph7c.
	    Interfaces: 4.2.3(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP)
	
	3. Check that the certificate holder uses Level 2 through Level 5 training device(s) evaluated and qualified by the Principal Operations Inspector.
	    Sources: Advisory Circular 120-45A, dated 02/05/92, Paragraph7c.
	    Interfaces: 4.2.3(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP)
		☐ Yes
		☐ No, Explain

2.	Does the certificate holder's manual contain general policies for the Simulators/Training Devices process that comply with the SRRs? SRRs: 121.135(b)(1); 121.407(d); 121.409(d); 121.407(a); 121.407(c); 121.409(b)	☐ Yes ☐ No, Explain

Related Design JTIs:

1. Check that the certificate holder has a policy specifying how the airplane simulator, that is used for training, maintains the performance that is required for approval.

   Sources: 121.135(b)(1); 121.407(a)(2)

   Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

2. Check that the certificate holder has a policy specifying how the airplane simulator, that is used for training, maintains functions that are required for approval.

   Sources: 121.135(b)(1); 121.407(a)(2)

   Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

3. Check that the certificate holder has a policy specifying how the airplane simulator, that is used for training, maintains other characteristics that are required for approval.

   Sources: 121.135(b)(1); 121.407(a)(2)

   Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

4. Check that the certificate holder has a policy specifying how the airplane simulator, that is used for checks, maintains the performance that is required for approval.

   Sources: 121.135(b)(1); 121.407(a)(2)

   Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

5. Check that the certificate holder has a policy specifying how the airplane simulator, that is used for checks, maintains functions that are required for approval.

   Sources: 121.135(b)(1); 121.407(a)(2)

   Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

6. Check that the certificate holder has a policy specifying how the airplane simulator, that is used for checks, maintains other characteristics that are required for approval.

   Sources: 121.135(b)(1); 121.407(a)(2)

   Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

7. Check that the certificate holder has a policy specifying how the airplane simulator, that is used for training, is modified to conform with any modification to the airplane being simulated that results in changes to performance required for approval.

   Sources: 121.135(a)(2); 121.407(a)(2)

   Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

8. Check that the certificate holder has a policy specifying how the airplane simulator, that is used for training, is modified to conform with any modification to the airplane being simulated that results in changes to function required for approval.

   Sources: 121.135(b)(1); 121.407(a)(3)

   Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

9. Check that the certificate holder has a policy specifying how the

airplane simulator, that is used for training, is modified to conform with any modification to the airplane being simulated that results in changes to function required for approval.

Sources: 121.135(b)(1); 121.407(a)(3)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

10. Check that the certificate holder has a policy specifying how the airplane simulator, that is used for checks, is modified to conform with any modification to the airplane being simulated that results in changes to performance required for approval.

Sources: 121.135(b)(1); 121.407(a)(3)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

11. Check that the certificate holder has a policy specifying how the airplane simulator, that is used for checks, is modified to conform with any modification to the airplane being simulated that results in changes to function required for approval.

Sources: 121.135(b)(1); 121.407(a)(3)

Interfaces: 4.2.2(AW); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

12. Check that the certificate holder has a policy specifying how the airplane simulator, that is used for checks, is modified to conform with any modification to the airplane being simulated that results in changes to other characters required for approval.

Sources: 121.135(b)(1); 121.407(a)(4)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

13. Check that the certificate holder has a policy specifying how the airplane simulator that is used for training, is given a daily functional preflight check before being used.

Sources: 121.135(b)(1); 121.407(a)(4)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

14. Check that the certificate holder has a policy specifying how the airplane simulator that is used for checks, is given a daily functional preflight check before being used.

Sources: 121.135(b)(1); 121.407(a)(4)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

15. Check that the certificate holder has a policy specifying how the airplane simulator is equipped with a daily discrepancy log.

Sources: 121.135(b)(1); 121.407(a)(5)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

16. Check that the certificate holder has a policy specifying how the daily discrepancy log is used for the airplane simulator, used for training.

Sources: 121.135(b)(1); 121.407(a)(5)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

17. Check that the certificate holder has a policy specifying how the appropriate instructor enters daily discrepancies in the airplane simulator discrepancy log at the end of each training flight.

Sources: 121.135(b)(1); 121.407(a)(5)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

18.	Check that the certificate holder has a policy specifying how the appropriate check airman enters daily discrepancies in the airplane simulator discrepancy log at the end of each check.	

Sources: 121.135(b)(1); 121.407(a)(5)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

19.	Check that the certificate holder has a policy specifying how the training device that is used for training maintains the performance that is required for approval.	

Sources: 121.135(b)(1); 121.407(a)(2)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

20.	Check that the certificate holder has a policy specifying how the training device that is used for training maintains functions that are required for approval.	

Sources: 121.135(b)(1); 121.407(a)(2)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

21.	Check that the certificate holder has a policy specifying how the training device that is used for training maintains other characteristics that are required for approval.	

Sources: 121.135(b)(1); 121.407(a)(2)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(AW)

22.	Check that the certificate holder has a policy specifying how the training device that is used for checks maintains the performance that is required for approval.	

Sources: 121.135(b)(1); 121.407(a)(2)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

23.	Check that the certificate holder has a policy specifying how the training device that is used for checks maintains functions that are required for approval.	

Sources: 121.135(b)(1); 121.407(a)(2)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

24.	Check that the certificate holder has a policy specifying how the training device, that is used for checks, maintains other characteristics that are required for approval.	

Sources: 121.135(b)(1); 121.407(a)(2)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

25.	Check that the certificate holder has a policy specifying how the training device, that is used for training, is modified to conform with any modification to the airplane being simulated that results in changes to performance required for approval.	

Sources: 121.135(b)(1); 121.407(a)(3)

Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP);

5.1.8(OP)

26. Check that the certificate holder has a policy specifying how the training device, that is used for training, is modified to conform with any modification to the airplane being simulated that results in changes to function required for approval.

   Sources: 121.135(b)(1); 121.407(a)(3)

   Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

27. Check that the certificate holder has a policy specifying how the training device, that is used for training, is modified to conform with any modification to the airplane being simulated that results in changes to other characters required for approval.

   Sources: 121.135(b)(1); 121.407(a)(3)

   Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

28. Check that the certificate holder has a policy specifying how the training device, that is used for checks, is modified to conform with any modification to the airplane being simulated that results in changes to performance required for approval.

   Sources: 121.135(b)(1); 121.407(a)(3)

   Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

29. Check that the certificate holder has a policy specifying how the training device, that is used for checks, is modified to conform with any modification to the airplane being simulated that results in changes to function required for approval.

   Sources: 121.135(b)(1); 121.407(a)(3)

   Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

30. Check that the certificate holder has a policy specifying how the training device, that is used for checks, is modified to conform with any modification to the airplane being simulated that results in changes to other characters required for approval.

   Sources: 121.135(b)(1); 121.407(a)(3)

   Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

31. Check that the certificate holder has a policy specifying how the training device that is used for training is given a daily functional preflight check before being used.

   Sources: 121.135(b)(1); 121.407(a)(4)

   Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

32. Check that the certificate holder has a policy specifying how the training device that is used for checks is given a daily functional preflight check before being used.

   Sources: 121.135(b)(1); 121.407(a)(4)

   Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)

33. Check that the certificate holder has a policy specifying how the appropriate instructor enters daily discrepancies in the training device discrepancy log at the end of each training event.

   Sources: 121.135(b)(1); 121.407(a)(5)

	Interfaces: 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)	
34.	Check that the certificate holder has a policy specifying how the check airman enters daily discrepancies in the training device discrepancy log at the end of each check. *Sources:* 121.135(b)(1); 121.407(a)(5) *Interfaces:* 4.2.3(OP); 4.2.7(OP); 4.2.9(OP); 4.3.2(OP); 4.3.3(OP); 5.1.8(OP)	
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 Simulators/Training Devices process? SRRs: 121.135(b)(2)	☐ Yes ☐ No, Explain
5.	Does the certificate holder's manual include instructions and information for personnel to meet the requirements of the Simulators/Training Devices 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.).

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.

Questions		
	To meet this objective, the inspector must answer the following questions:	
1.	Are the following controls built into the Simulators/Training Devices process:	
1.1.	Is there a control in place to ensure that usage of simulators and training devices is consistent with authorizations and approvals?	☐ Yes ☐ No, Explain
1.2.	Is there a control in place to ensure that the certificate holder's simulators and training devices are maintained in accordance with the regulations?	☐ Yes ☐ No, Explain
1.3.	Is there a control in place to ensure that the certificate holder's training devices are maintained and represent the aircraft operated by the carrier?	☐ Yes ☐ No, Explain
1.4.	Is there a control in place to ensure that any simulator or training device used in a training course is specifically approved for the certificate holder?	☐ Yes ☐ No, Explain
1.5.	Is there a control in place to ensure that an airplane simulator approved under this section is used instead of the airplane to satisfy the pilot flight training requirements prescribed in the certificate holder's approved low-altitude windshear flight training program?	☐ 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 Simulators/Training Devices 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 to assess its processes, to identify and to 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.

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.

Questions		
	To meet this objective, the inspector must answer the following questions:	
1.	Does the certificate holder's Simulators/Training Devices process include the following process measurements:	
1.1.	Process measurements that would reveal if usage of simulators and training devices was inconsistant with authorizations and approvals?	☐ Yes ☐ No, Explain
1.2.	Process measurements that would reveal if the certificate holder's simulators and training devices were not maintained in accordance with the regulations?	☐ Yes ☐ No, Explain
1.3.	Process measurements that would reveal if the certificate holder failed to ensure that training devices were maintained and represented the aircraft operated by the carrier?	☐ Yes ☐ No, Explain
1.4.	Process measurements that would reveal if the certificate holder failed to ensure that any simulator or training device used in a training course was specifically approved for the certificate holder?	☐ Yes ☐ No, Explain
1.5.	Process measurements that would reveal if the certificate holder failed to ensure that an airplane simulator approved under this section was used instead of the airplane to satisfy the pilot flight training requirements prescribed in the certificate holder's approved low-altitude windshear flight training program?	☐ 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 programs?	☐ Yes ☐ No, Explain
5.	Does the organization that conducts the process measurements have direct access to the person with responsibility for the Simulators/Training Devices 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 Simulators/Training Devices 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 Simulators/Training Devices 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 Simulators/Training Devices process.
2.	Identify the person who has overall authority for the Simulators/Training Devices 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 Simulators/Training Devices 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 Simulators/Training Devices 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 Simulators/Training Devices 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 Simulators/Training Devices 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 Simulators/Training Devices 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 Simulator/Training Devices process?	☐ Yes ☐ No, Explain
9.	Does the certificate holder clearly and completely document the procedures for	☐ Yes

	delegation of authority for the Simulators/Training Devices process?	☐ No, Explain

SAI Section 5 - Management Responsibility & Authority Attributes Drop-Down Menu
1.   Not documented.
2.   Documentation unclear.
3.   Documentation incomplete.
4.   Other.