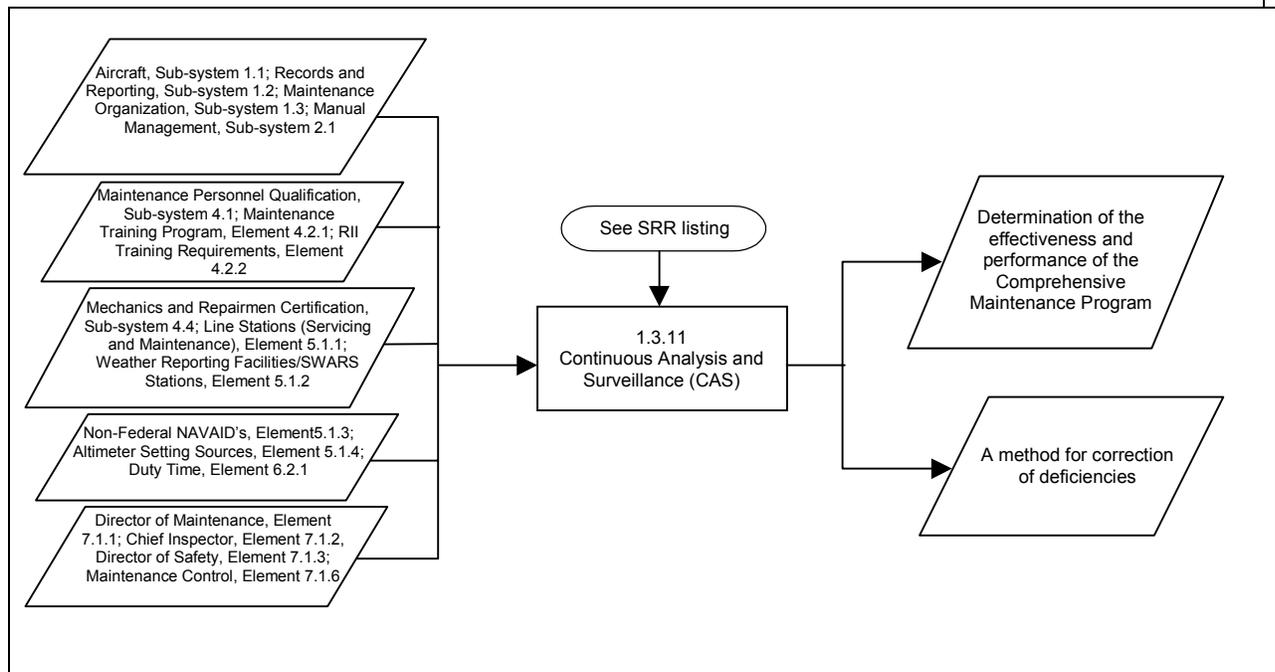


Safety Attribute Inspection (SAI) Job Aid



ELEMENT SUMMARY INFORMATION

Element: 1.3.11 Continuous Analysis and Surveillance (CAS)

Purpose of this Element (Air Carrier's responsibility): To provide continuous analysis and surveillance of the Air Carrier's continuous airworthiness maintenance program (CAMP) performance and effectiveness, and to develop and implement corrective action for any and/or all identified deficiencies.

Objective (FAA responsibility): To determine if the Air Carrier follows its policies, procedures, and controls for the CAS program.

Inputs:

- Aircraft, Sub-System 1.1
- Records and Reporting, Sub-system 1.2
- Maintenance Organization, Sub-system 1.3
- Manual Management, Sub-system 2.1
- Maintenance Personnel Qualification, Sub-system 4.1
- Maintenance Training Program, Element 4.2.1
- RII Training Requirements, Element 4.2.2

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Inputs: (Continued)

- Mechanics and Repairmen Certification, Sub-system 4.4
- Line Stations (Servicing and Maintenance) Element 5.1.1
- Weather Reporting Facilities/SWARS Stations, Element 5.1.2
- Non-Federal NAVAID's, Element 5.1.3
- Altimeter Setting Sources, Element 5.1.4
- Duty Time, Element 6.2.1
- Director of Maintenance, Element 7.1.1
- Chief Inspector, Element 7.1.2
- Director of Safety, Element 7.1.3
- Maintenance Control, Element 7.1.6

Outputs:

- Determination of the effectiveness and performance of the Comprehensive Maintenance Program.
- A method for correction of deficiencies.

Performance Measures:

- The air carrier conducts audits of the Comprehensive Maintenance Program.
- The air carrier uses the results of the audit to identify problems in the Comprehensive Maintenance Program.
- The CAS Program analyses data from the Comprehensive Maintenance Program to identify program deficiencies.
- The air carrier uses the results of the analysis to correct those deficiencies.

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SRR:

- 121.373 (a, b) Continuing Analysis and Surveillance

Other CFRs and/or FAA Guidance:

- FAA Order 8300.10, Volume 2, Chapter 65-- “Evaluate Continuing Analysis and Surveillance Program/ Revision”
- FAA Order 8300.10, Volume 3, Chapter 37-- “Monitor Continuing Analysis and Surveillance Program/ Revision”
- HBAW 96-05C-- “Air Carrier Operations Specifications Authorization...”
- HBAW 95-06A-- “Maintenance Programs for Aircraft Engines,...”
- Refer to appropriate Advisory Circulars

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SRR SPECIFIC INFORMATION

SRR	Intent	Inspectors
121.373 (a)	To establish and maintain a continuous analysis and surveillance system which covers maintenance, preventative maintenance, and alterations and requires audit and correction of deficiencies in those programs including outsourcing.	<i>Certification: Airworthiness</i> <i>Surveillance: Airworthiness</i>
121.373 (b)	To make changes to the CAS Program when the FAA determines that it does not contain adequate procedures and/or standards.	<i>Certification: Airworthiness</i> <i>Surveillance: Airworthiness</i>

Safety Attribute Inspection (SAI) Job Aid

1.3.11 Continuous Analysis and Surveillance (CAS)

SECTION 1 - RESPONSIBILITY ATTRIBUTE

Objective: To determine if there is a clearly identifiable, qualified, and knowledgeable person who is accountable for the quality of the Continuous Analysis and Surveillance (CAS) process.

To meet this objective, the inspector will accomplish the following tasks:

1. Identify the person who is responsible for the quality of the Continuous Analysis and Surveillance (CAS) process.
2. Review the description in the Manual that delineates the duties and responsibilities of the person.
3. Evaluate the person's qualifications and work experience (or resume', if appropriate).
4. Review the appropriate organizational chart.
5. Discuss the Continuous Analysis and Surveillance (CAS) process with the person.

To meet this objective, the inspector will determine and record answers to the following questions:

1. Is there a clearly identifiable person who is answerable for the quality of the Continuous Analysis and Surveillance (CAS) process?	<input type="checkbox"/> YES If yes, provide the name: <input type="checkbox"/> NO If no, explain:
2. Does the person understand the procedures associated with the Continuous Analysis and Surveillance (CAS) process?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
3. Does the person understand the controls associated with the Continuous Analysis and Surveillance (CAS) process?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
4. Does the person understand the interfaces associated with the Continuous Analysis and Surveillance (CAS) process?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
5. Does the person understand the process measurements associated with the Continuous Analysis and Surveillance (CAS) process?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
6. Is the responsibility of this position clearly documented in the air carrier's Manual(s)?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
7. Are the qualification standards for this position clearly documented?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
7a. Are the qualification standards for this position appropriate for the duties that are assigned?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
8. Does the person meet the qualification standards?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
9. Does the person acknowledge that he/she has responsibility for the Continuous Analysis and Surveillance (CAS) process?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
10. Does the person know who has authority to establish and modify the Continuous Analysis and Surveillance (CAS) process?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO

Safety Attribute Inspection (SAI) Job Aid

1.3.11 Continuous Analysis and Surveillance (CAS)

SECTION 2 – AUTHORITY ATTRIBUTE

Objective: To determine if there is a clearly identifiable, qualified, and knowledgeable person with the authority to establish and modify the Continuous Analysis and Surveillance (CAS) process.

To meet this objective, the inspector will accomplish the following tasks:

1. Identify the person who has the authority to establish or modify the Continuous Analysis and Surveillance (CAS) process.
2. Review the description in the Manual that delineates the duties and responsibilities of the person.
3. Evaluate the person's qualifications and work experience (or resume', if appropriate).
4. Review the appropriate organizational chart.
5. Discuss the Continuous Analysis and Surveillance (CAS) process with the person.

To meet this objective, the inspector will determine and record answers to the following questions:

1. Is there a clearly identifiable person who has authority to establish and modify the air carrier's policies for the Continuous Analysis and Surveillance (CAS) process?	<input type="checkbox"/> YES If yes, provide the name: <input type="checkbox"/> NO If no, explain:
2. Does the person understand the procedures associated with the Continuous Analysis and Surveillance (CAS) process?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
3. Does the person understand the controls associated with the Continuous Analysis and Surveillance (CAS) process?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
4. Does the person understand the interfaces associated with the Continuous Analysis and Surveillance (CAS) process?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
5. Does the person understand the process measurements associated with the Continuous Analysis and Surveillance (CAS) process?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
6. Is the authority of this position clearly documented in the air carrier's Manual(s)?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
7. Are the qualification standards for this position clearly documented?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
7a. Are the qualification standards for this position appropriate for the duties that are assigned?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
8. Does the person meet the qualification standards?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
9. Does the person acknowledge that he/she has authority for the Continuous Analysis and Surveillance (CAS) process?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
10. Does the individual know who has the responsibility for the Continuous Analysis and Surveillance (CAS) process?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
11. Are the procedures for delegation of authority clearly documented for the Continuous Analysis and Surveillance (CAS) process?	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO

Safety Attribute Inspection (SAI) Job Aid

1.3.11 Continuous Analysis and Surveillance (CAS)

SECTION 3 – PROCEDURES ATTRIBUTE

Objective: To determine if the air carrier has documented procedures for accomplishing the Continuous Analysis and Surveillance (CAS) process.

To meet this objective, the inspector will accomplish the following tasks:

1. Review the documented instructions and information related to the Continuous Analysis and Surveillance (CAS) process to ensure that they contain who, what, where, when, and how.
2. Review the FAA Guidance and Specific Regulatory Requirements (SRR) included in the supplemental information section of this SAI.
3. Discuss the Continuous Analysis and Surveillance (CAS) process with appropriate personnel to gain an understanding of the procedures.
4. Observe the Continuous Analysis and Surveillance (CAS) process to gain an understanding of the procedures.

To meet this objective, the inspector will determine and record answers to the following questions:

1. Do written procedures exist to achieve the desired result of the Continuous Analysis and Surveillance (CAS) process:

1.1 Do written procedures require both scheduled and unscheduled audits? [SRR 121.373(a)]

- YES **If no or N/A, explain:**
 NO
 N/A

1.2 Do written procedures provide detailed instructions and information that explains the method for scheduling (frequency), conducting and documenting an audit of the following processes to identify deficiencies and ineffective procedures and practices:

1.2.1 Aircraft Airworthiness Requirements, Element 1.1.1

- YES **If no or N/A, explain:**
 NO
 N/A

1.2.2 Appropriate Operational Equipment, Element 1.1.2

- YES **If no or N/A, explain:**
 NO
 N/A

1.2.3 Records and Reporting System, Sub-system 1.2

- YES **If no or N/A, explain:**
 NO
 N/A

1.2.4 Maintenance Organization, Sub-system 1.3 [SRR 121.373(a, b)]

- YES **If no or N/A, explain:**
 NO
 N/A

1.2.5 Manual Management, Sub-system 2.1

- YES **If no or N/A, explain:**
 NO
 N/A

1.2.6 Maintenance Personnel Qualifications, Sub-system 4.1

- YES **If no or N/A, explain:**
 NO
 N/A

Safety Attribute Inspection (SAI) Job Aid

1.3.11 Continuous Analysis and Surveillance (CAS)

SECTION 3 – PROCEDURES ATTRIBUTE

<i>1.2.7 Maintenance Training Program, Element 4.2.1</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	If no or N/A, explain:
<i>1.2.8 RII Training Requirements, Element 4.2.2</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	If no or N/A, explain:
<i>1.2.9 Mechanics and Repairmen Certification, Sub-system 4.4</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	If no or N/A, explain:
<i>1.2.10 Duty Time, Element 6.2.1</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	If no or N/A, explain:
<i>1.2.11 Key Personnel, Sub-system 7.1</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	If no or N/A, explain:
<i>1.2.12 Aging Aircraft</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	If no or N/A, explain:
<i>1.2.13 Baggage and Cargo Handling</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	If no or N/A, explain:
<i>1.2.14 Components Removal and Tear Down Reports</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	If no or N/A, explain:
<i>1.2.15 Corrosion Control</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	If no or N/A, explain:
<i>1.2.16 Emergency Maintenance</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	If no or N/A, explain:
<i>1.2.17 Non-Destructive Testing</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	If no or N/A, explain:
<i>1.2.18 Other Maintenance Programs approved by Operation Specification</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	If no or N/A, explain:
<i>1.2.19 Preventive Maintenance</i>	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	If no or N/A, explain:

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1.3.11 Continuous Analysis and Surveillance (CAS)

SECTION 3 – PROCEDURES ATTRIBUTE

<p><i>1.2.20 Reports of FAA Inspection Findings</i></p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p><i>1.2.21 Test Flights</i></p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p><i>1.2.22 Aircraft Storage</i></p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p><i>1.3 Do written procedures provide a method for analyzing operational data to:</i></p>	
<p><i>1.3.1 Determine the effectiveness of the Maintenance Program;</i></p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p><i>1.3.2 Determine the effectiveness of the Inspection Program; [SRR 121.373(a)]</i></p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p><i>1.3.3 Identify any deficiencies;</i></p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p><i>1.3.4 Determine root causes; and</i></p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p><i>1.3.5 Provide for corrective action for any deficiencies?</i></p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p><i>1.4 Do written procedures classify audit findings by severity through safety assessment of the deficiencies?</i></p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p><i>1.5 Do written procedures place deadlines on corrective action based on severity of the deficiencies?</i></p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p><i>1.6 Do written procedures identify the person or persons responsible for reviewing audit findings and assigning classifications of the deficiencies?</i></p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p><i>1.7 Do written procedures explain the method for re-auditing the program after corrective actions have been accomplished?</i></p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A

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1.3.11 Continuous Analysis and Surveillance (CAS)

SECTION 3 – PROCEDURES ATTRIBUTE

<p>1.8 Do written procedures explain the method for documenting unsatisfactory results after a re-audit?</p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p>1.9 Do written procedures ensure corrective actions have been completed within deadlines?</p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p>1.10 Do written procedures provide the minimum standards for auditors including:</p>	
<p>1.10.1 Qualifications; and</p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p>1.10.2 Training (including recurrent training)?</p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p>1.11 Do written procedures provide that when functioning as an auditor, the individual is under the control and direction of the audit unit?</p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p>1.12 Do written procedures explain the method for acquiring and using reports resulting from FAA inspections?</p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p>1.13 Do written procedures include audits of an outsourcing agency (other than substantial maintenance provider) at a minimum of once a year, or prior to initial use?</p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p>1.14 Do written procedures require the air carrier to have audited the substantial maintenance provider within six months prior to use?</p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p>1.15 Do written procedures require the air carrier to audit the substantial maintenance provider at least once per quarter if the substantial maintenance provider is being continuously utilized?</p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p>1.16 Do written procedures require that 50% of substantial maintenance provider audits must be performed during maintenance provided by that substantial maintenance provider?</p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p>1.17 Do written procedures identify the individual(s) who are responsible for monitoring the aircraft, aircraft system, or appliance for mechanical performance?</p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A

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1.3.11 Continuous Analysis and Surveillance (CAS)

SECTION 3 – PROCEDURES ATTRIBUTE

1.18 Do written procedures provide a method to identify emergency/critical situations, determine root causes, and be able to formulate a plan to ensure that similar conditions do not occur in like equipment?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	If no or N/A, explain:
1.19 Do written procedures require routine audits at scheduled intervals?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	If no or N/A, explain:
1.20 Do written procedures require that at least 20% of audits are random and unannounced?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	If no or N/A, explain:
1.21 Do written procedures explain a method for collection and retention of data for short-term, long-term, and emergency monitoring?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	If no or N/A, explain:
1.22 Do written procedures require the use of the list for distribution of results or reports of audits?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	If no or N/A, explain:
1.23 Do written procedures require retention of results or reports until the re-audit indicates that the deficiency has been corrected?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A	If no or N/A, explain:
2. Do the procedures identify: who, what, where, when and how?	<input type="checkbox"/> YES <input type="checkbox"/> NO	If no, explain:
3. Are the procedures in compliance with the CFR(s)?	<input type="checkbox"/> YES <input type="checkbox"/> NO	If no, explain:
4. Do the procedures conform to other written guidance (E.g., Operations Specifications, FAA Orders, Airworthiness Directives, Advisory Circulars, Handbook Bulletins, Directives, and Manufacturer's Recommendations)?	<input type="checkbox"/> YES <input type="checkbox"/> NO	If no, explain:
5. Does the air carrier have the resources to support the written procedures for the Continuous Analysis and Surveillance (CAS) process?	<input type="checkbox"/> YES <input type="checkbox"/> NO	If no, explain:
6. If alternate procedures exist for use during irregular conditions, do they achieve the same desired results as the primary procedures so that an equivalent level of safety is maintained? (E.g., a manual system used as a result of equipment failure).	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A, No alternate procedures exist for this element	If no, explain:
7. Are the procedures published in different manuals relating to the Continuous Analysis and Surveillance (CAS) process consistent?	<input type="checkbox"/> YES <input type="checkbox"/> NO	If no, explain:
8. Does the air carrier have a documented method for assessing the impacts of procedural changes to the Continuous Analysis and Surveillance (CAS) process?	<input type="checkbox"/> YES <input type="checkbox"/> NO	If no, explain:

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1.3.11 Continuous Analysis and Surveillance (CAS)

SECTION 4 – CONTROL ATTRIBUTE

Objective: To determine if checks and restraints are designed into the Continuous Analysis and Surveillance (CAS) process to ensure a desired result is achieved.

To meet this objective, the inspector will accomplish the following tasks:

1. Review the documented instructions and information related to the Continuous Analysis and Surveillance (CAS) process.
2. Review the FAA Guidance and Specific Regulatory Requirements (SRR) included in the supplemental information section of this SAI
3. Discuss the Continuous Analysis and Surveillance (CAS) process with appropriate personnel to gain an understanding of the controls.
4. Observe the Continuous Analysis and Surveillance (CAS) process to gain an understanding of the controls.

To meet this objective, the inspector will determine and record answers to the following questions:

1. Are the following checks and restraints built into the Continuous Analysis and Surveillance (CAS) process:

1.1 Does the Air Carrier have and maintain a method for analyzing operational data to:

1.1.1 Determine the effectiveness of the Maintenance Program; [SRR 121.373(a)]

YES **If no or N/A, explain:**
 NO
 N/A

1.1.2 Determine the effectiveness of the Inspection Program; [SRR 121.373(a)]

YES **If no or N/A, explain:**
 NO
 N/A

1.1.3 Identify any deficiencies; [SRR 121.373(a)]

YES **If no or N/A, explain:**
 NO
 N/A

1.1.4 Determine root causes; and[SRR 121.373(a)]

YES **If no or N/A, explain:**
 NO
 N/A

1.1.5 Provide for corrective action for any deficiencies? [SRR 121.373(a)]

YES **If no or N/A, explain:**
 NO
 N/A

1.2 Does the air carrier ensure that corrective actions occur within the specified deadlines? [SRR 121.373(a)]

YES **If no or N/A, explain:**
 NO
 N/A

1.3 Does the air carrier review the results of corrective actions to validate the effectiveness of corrective actions? [SRR 121.373(a)]

YES **If no or N/A, explain:**
 NO
 N/A

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1.3.11 Continuous Analysis and Surveillance (CAS)

SECTION 4 – CONTROL ATTRIBUTE

1.4 Does the air carrier have and maintain a schedule of audits?	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
1.5 Does the air carrier have and maintain standards for auditor qualifications and training?	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
1.6 Does the air carrier's CAS Program cover all facets of the Comprehensive Maintenance Program? [SRR 121.373(a,b)]	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
1.7 Does the air carrier have and maintain a list of individuals who receive the CAS reports?	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
1.8 Does the air carrier maintain an "open" status on reports until a reaudit confirms that a correction has been made?	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
1.9 Does the air carrier maintain a list of short term, long-term, and emergency monitoring procedures for the following emergency/critical situations:	
1.9.1 Inflight engine separations;	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
1.9.2 Inflight propeller separations;	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
1.9.3 Uncontained engine failures;	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
1.9.4 Critical structural failures; and	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
1.9.5 Any premature failure of life-limited parts?	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
1.10 Does the air carrier maintain a list of short term, long-term, and emergency monitoring procedures for the following day-to-day situations:	
1.10.1 Daily mechanical problems of each aircraft;	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
1.10.2 Non-availability of spare parts;	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A

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1.3.11 Continuous Analysis and Surveillance (CAS)

SECTION 4 – CONTROL ATTRIBUTE

<p><i>1.10.3 Inadequate manpower to perform maintenance;</i></p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p><i>1.10.4 Deferred maintenance items - excessive number and time;</i></p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p><i>1.10.5 Safety-related failures;</i></p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p><i>1.10.6 Recurring maintenance problems;</i></p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p><i>1.10.7 Excessive unscheduled maintenance; and</i></p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p><i>1.10.8 Maintenance delays/cancellations?</i></p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p><i>1.11 Does the air carrier provide a means of reporting (e.g., charting, graphing) and accounting for operational data at specified intervals to reveal trend setting related information?</i></p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p>2. Do the checks and restraints ensure the desired result is achieved for the Continuous Analysis and Surveillance (CAS) process?</p>	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
<p>3. Does the air carrier have a documented method for assessing the impacts of any changes made to checks and restraints in the Continuous Analysis and Surveillance (CAS) process?</p>	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
<p>4. Does the air carrier have the resources to support the checks and restraints for the Continuous Analysis and Surveillance (CAS) process?</p>	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO

Safety Attribute Inspection (SAI) Job Aid

1.3.11 Continuous Analysis and Surveillance (CAS)

SECTION 5 - PROCESS MEASUREMENT ATTRIBUTE

Objective: To determine if the air carrier measures and assesses the Continuous Analysis and Surveillance (CAS) process, to identify and correct problems or potential problems.

To meet this objective, the inspector will accomplish the following tasks:

1. Review the documented instructions and information related to the Continuous Analysis and Surveillance (CAS) process.
2. Discuss the Continuous Analysis and Surveillance (CAS) process with appropriate personnel to gain an understanding of the process measures.
3. Observe the Continuous Analysis and Surveillance (CAS) process to gain an understanding of the process measures.

To meet this objective, the inspector will determine and record answers to the following questions:

1. <Deleted>

2. Does the air carrier's Continuous Analysis and Surveillance (CAS) process include the following process measurements?

2.1 *The Air Carrier takes corrective action in response to failures detected during audits.*

YES **If no or N/A, explain:**
 NO
 N/A

2.2 *The air carrier records the percentage of re-audits that produce failures and analyzes the information.*

YES **If no or N/A, explain:**
 NO
 N/A

2.3 *The air carrier conducts at least 20% of its audits in a random, unannounced fashion.*

YES **If no or N/A, explain:**
 NO
 N/A

2.4 *The air carrier conducts an independent audit of the CAS Program at least biannually to ensure that it meets its intended function.*

YES **If no or N/A, explain:**
 NO
 N/A

2.5 *The air carrier analyzes operational data to:*

2.5.1 *Determine the effectiveness of the Maintenance Program;*

YES **If no or N/A, explain:**
 NO
 N/A

2.5.2 *Determine the effectiveness of the Inspection Program;*

YES **If no or N/A, explain:**
 NO
 N/A

2.5.3 *Identify deficiencies; and*

YES **If no or N/A, explain:**
 NO
 N/A

Safety Attribute Inspection (SAI) Job Aid

1.3.11 Continuous Analysis and Surveillance (CAS)

SECTION 5 - PROCESS MEASUREMENT ATTRIBUTE

<p>2.5.4 Provide for corrective action of any deficiencies.</p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p>2.6 The CAS reports are distributed to the individuals who can effect corrective action.</p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p>3. Does the air carrier document their process measurement methods and results?</p>	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
<p>4. Are the air carrier's process measurement methods effective?</p>	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
<p>5. Does the air carrier use their process measurement results to improve their programs?</p>	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
<p>6. Are the process measurement results accessible to the FAA?</p>	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
<p>7. Does the organization that conducts the process measurement have direct access to the person with responsibility for the Continuous Analysis and Surveillance (CAS) process?</p>	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
<p>8. Does the air carrier have the resources to support the process measurement for the Continuous Analysis and Surveillance (CAS) process?</p>	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO

Safety Attribute Inspection (SAI) Job Aid

1.3.11 Continuous Analysis and Surveillance (CAS)

SECTION 6 – INTERFACES ATTRIBUTE

Objective: To determine if the air carrier’s Continuous Analysis and Surveillance (CAS) process includes safety attributes.

To meet this objective, the inspector will accomplish the following tasks:

1. Review the documented instructions and information related to the Continuous Analysis and Surveillance (CAS) process.
2. Discuss the Continuous Analysis and Surveillance (CAS) process with appropriate personnel to gain an understanding of the interfaces.
3. Observe the Continuous Analysis and Surveillance (CAS) process to gain an understanding of the interfaces.

To meet this objective, the inspector will determine and record answers to the following questions:

1. Are the following interfaces identified for the Continuous Analysis and Surveillance (CAS) process:

<i>1.1 Aircraft (Sub-System 1.1)</i>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<i>1.2 Maintenance Organization (Sub-system 1.3)</i>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<i>1.3 Records and Reporting (Sub-system 1.2)</i>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<i>1.4 Manual Management (Sub-system 2.1)</i>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<i>1.5 Maintenance Personnel Qualification (Sub-system 4.1)</i>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<i>1.6 Maintenance Training Program (Element 4.2.1)</i>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<i>1.7 RII Training Requirements (Element 4.2.2)</i>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<i>1.8 Mechanics and Repairmen Certification (Sub-system 4.4)</i>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A

Safety Attribute Inspection (SAI) Job Aid

1.3.11 Continuous Analysis and Surveillance (CAS)

SECTION 6 – INTERFACES ATTRIBUTE

<p>1.9 Line Stations (Servicing and Maintenance) (Element 5.1.1)</p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p>1.10 Weather Reporting Facilities/SWARS Stations (Element 5.1.2)</p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p>1.11 Non-Federal NAVAID's (Element 5.1.3)</p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p>1.12 Altimeter Setting Sources (Element 5.1.4)</p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p>1.13 Maintenance Duty Time (Element 6.2.1)</p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p>1.14 Director of Maintenance (Element 7.1.1)</p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p>1.15 Chief Inspector (Element 7.1.2)</p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p>1.16 Directory of Safety (Element 7.1.3)</p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p>1.17 Maintenance Control (Element 7.1.6)</p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p>1.18 Other programs approved by Operation Specifications</p>	<input type="checkbox"/> YES If no or N/A, explain: <input type="checkbox"/> NO <input type="checkbox"/> N/A
<p>2. List any additional interfaces identified:</p>	
<p>3. Are there written procedures for the use of air carrier personnel in the application of these interfaces?</p>	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
<p>4. Are there controls to ensure that interfaces occur?</p>	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO
<p>5. Are the interfaces between the Continuous Analysis and Surveillance (CAS) process and other processes treated consistently in the Manual(s)?</p>	<input type="checkbox"/> YES If no, explain: <input type="checkbox"/> NO