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|  | <p align="center"><b>TANZANIA CIVIL AVIATION AUTHORITY</b></p> <p align="center">DIRECTORATE OF SAFETY REGULATIONS</p> | <p>Revision: 2</p> <p align="center"><b>Advisory<br/>Circular</b></p> |
| <p>Document No.:<br/>TCAA/QSP/SR/AC/GEN-18</p>                                    | <p align="center">Title: <b>Organization Safety Culture</b></p>                                                        | <p align="right">Page 1 of 12</p>                                     |

## ORGANIZATION SAFETY CULTURE

### 1.0 PURPOSE

This Advisory Circular provides guidelines to the Service Provider Organizations on how to behave in safety management environment. The document illustrates how safety performance is possible when safety becomes of value within an organization.

### 2.0 REFERENCE.

The Civil Aviation (Safety Management) Regulations  
ICAO Doc 9859 – Safety Management Manual

### 3.0 BACKGROUND

#### 3.1 Safety culture characteristics

A safety culture is the natural consequence of having humans in the aviation system. Safety culture is how people behave in relation to safety and risk when no one is watching. It is an expression of how safety is perceived, valued and prioritized by management and employees in an organization, and is reflected in the extent to which individuals and groups are:

- a) aware of the risks and known hazards faced by the organization and its activities;
- b) continuously behaving to preserve and enhance safety;
- c) able to access the resources required for safe operations;
- d) willing and able to adapt when facing safety issues;
- e) willing to communicate safety issues; and
- f) consistently assessing the safety related behaviours throughout the organization.

Culture is characterized by the beliefs, values, biases and their behavior that are shared by members of society, group or organization. Operators and Service providers may establish a reporting culture considering the organizational, professional and national cultures.

#### 3.2 A healthy safety culture and its characteristics.

The safety culture may rely on a high degree of trust and respect between personnel and management and may be created and supported at the senior management level.

The healthy safety culture is characterized as follow:

- (i) An active desire for improvement;
- (ii) Vigilance on hazards;
- (iii) Continuous monitoring , analysis and investigation;
- (iv) Existence of a shared commitment by personnel and management to personal safety responsibilities;
- (v) Confidence in the safety system;

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|----------------------------------------|-------------------------------------------|--------------|
| Document No.:<br>TCAA/QSP/SR/AC/GEN-18 | Title: <b>Organization Safety Culture</b> | Page 2 of 12 |
|----------------------------------------|-------------------------------------------|--------------|

- (vi) A set of documented rules and policies; and
- (vii) An effective safety culture. (The culture cannot be effective unless it is embedded within an organization's own culture).

### 3.3 Organizational culture

The organizational culture refers to the characteristics and safety perceptions among members interacting within a particular entity. The Operator and Service Provider organizational value systems include prioritization or balancing policies covering areas such as productivity versus quality, safety versus efficiency, financial versus technical, professional versus academic, and enforcement versus corrective action.

The greatest potential for the creation and maintenance of an effective, self-sustaining culture for the management of safety is at the organizational level. The organization is a major determinant of the behaviour in which persons will engage while performing management or operational activities during the delivery or oversight of aviation activities. Organizational culture sets the boundaries for accepted executive and operational performance by establishing the norms and limits. Thus, organizational culture provides a cornerstone for managerial and employee decision making.

Organizational culture has the potential to affect the following:

- a) interactions between senior and junior members of a group;
- b) interactions between industry and regulatory authority personnel;
- c) the degree to which information is shared internally and with the regulatory authorities;
- d) the prevalence of teamwork in the regulatory authority or industry organization;
- e) reactions of personnel under demanding operational conditions;
- f) the acceptance and utilization of particular technologies; and
- g) the tendency to take punitive measures in reaction to operational errors within a product or service provider or by the regulatory authorities.

Organizational culture is also affected by factors such as:

- a) business policies and procedures;
- b) supervisory behaviour and practices;
- c) safety improvement goals as well as minimum tolerance levels;
- d) management's attitude toward quality or safety issues;
- e) employee training and motivation;
- f) the relationship between the regulatory authorities and product and service providers; and Policies on work/life balance.

The way in which management deals with day-to-day safety issues is also fundamental to improving organizational culture. Collaborative interaction between front-line personnel and their safety and quality counterparts, as well as the representatives of the regulatory authority, is indicative of a positive organizational culture. This relationship should be characterized by professional courtesy, while maintaining respective roles as necessary to ensure objectivity or accountability.

An effective way to promote safe operations is to ensure that an organization has developed an environment where all staff feel responsible for safety. This becomes evident when staff consider the impact on safety in everything they do, report all hazards, errors and threats and support the identification and management of all their associated risks. In addition, management must create an environment in which personnel are aware of safety risks, are given sufficient systems to protect themselves and are assured protection when they divulge safety information through the safety reporting system. An effective safety culture serves as a method to synchronize diverse national and professional cultures within the context of the organization.

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|----------------------------------------|-------------------------------------------|--------------|
| Document No.:<br>TCAA/QSP/SR/AC/GEN-18 | Title: <b>Organization Safety Culture</b> | Page 3 of 12 |
|----------------------------------------|-------------------------------------------|--------------|

### 3.4 Typical culture for a particular nation

Organizations should understand that national culture differentiates the characteristics of particular nations, including the role of the individual within society, the manner in which authority is distributed, and national priorities with respect to resources, accountabilities, morality, objectives and different legal systems. Therefore, a safety management perspective, national culture plays a large part in determining the nature and scope of regulatory enforcement policies, including the relationship between regulatory authority personnel and industry personnel, and the extent to which safety-related information is protected. Also, organizational culture may therefore be significantly affected by the national cultures present among the members of its workforce.

When applying for a safety management programme, managers might closely assess and consider the differences in the national cultures of their personnel. For instance, safety risk perceptions can differ greatly between different national cultures. Safety-related aspects, including communication and leadership styles as well as the interaction between supervisors and subordinates, may need to accommodate a multicultural workforce.

### 3.5 Developing a Positive Safety Culture

A positive safety culture has the following features:

- a) managers and employees, individually and collectively, want to make decisions and take actions that promote safety;
- b) individuals and groups continually critique their behaviours and processes and welcome the critique of others searching for opportunities to change and improve as their environment changes;
- c) management and staff share a common awareness of the hazards and risks faced by the organization and its activities, and the need to manage risks;
- d) d) individuals act and make decisions according to a common belief that safety is part of the way they do business;
- e) individuals value being informed, and informing others, about safety;
- f) individuals trust their colleagues and managers with information about their experiences, and the reporting of errors and mistakes is encouraged to improve how things are done in the future.

Actions by management and employees can help drive their safety culture to be more positive. Appendix 2 provides examples of the types of management and employee actions that will enable or disable a positive safety culture in an organization. Organizations should focus on providing enablers and removing any disablers to promote and achieve a positive safety culture.

### 3.6 Reporting Culture

Reporting culture emerges from personnel beliefs about and attitudes toward the benefits and potential detriments associated with reporting systems and the ultimate effect on their acceptance or utilization of such systems. It is greatly influenced by organizational, professional and national cultures and is one criterion for judging the effectiveness of a safety system. A healthy reporting culture aims to differentiate between intentional and unintentional deviations and determine the best course of action for both the organization as a whole and the individuals directly involved.

The success of a reporting system depends upon the continuous flow of information from front-line personnel. Policies that distinguish willful acts of misconduct from inadvertent errors, providing for an appropriate punitive or non-punitive response, are essential to assure the effective reporting of systemic safety deficiencies. While management gains safety information, the system will be ineffective if it

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|----------------------------------------|-------------------------------------------|--------------|
| Document No.:<br>TCAA/QSP/SR/AC/GEN-18 | Title: <b>Organization Safety Culture</b> | Page 4 of 12 |
|----------------------------------------|-------------------------------------------|--------------|

interferes with appropriate punitive actions. Conversely, a culture that fails to distinguish unintentional errors/mistakes from acts of willful misconduct will inhibit the reporting process. If personnel avoid reporting for fear of punishment, management does not gain important safety information.

Overall, personnel must believe that they will be supported in any decisions made in the interest of safety but must also understand that intentional breaches of safety policy will not be tolerated. Therefore, a voluntary reporting system should be confidential and operated in accordance with appropriate non-punitive policies. The system should also provide feedback to personnel on safety improvements achieved as a result of the reports received. This objective requires secure and easy access to safety reporting systems, active safety data collection and management's proactive treatment of the data.

Safety information should be collected solely for the improvement of aviation safety, and information protection is essential in ensuring the continued availability of information. This may be realized through a safety reporting system that is confidential, voluntary and non-punitive. The benefits are twofold. Often personnel are the closest to safety hazards, so the reporting system enables them to actively identify these hazards. At the same time, management is able to gather pertinent safety hazard information and also build trust with personnel.

Once the data have been collected and stored, that information must be processed in order to substantiate the implementation of appropriate actions that should be communicated to front-line personnel in a timely manner.

### **3.7 Promotion and assessment of a safety culture**

The effectiveness of a safety culture can indeed be measured and monitored through the use of tangible metrics. In a mature safety culture environment, it can be anticipated that organizations may be in a position to introduce a mechanism to conduct an internal organization safety culture (OSC) assessment. Such an assessment may be further enhanced using the more technically involved and sector-specific organization risk profile (ORP) assessment. Industry organizations may consider developing promotional schemes (e.g. a safety culture award) to encourage product and service providers to participate in a voluntary OSC/ORP assessment of their organizations. The parameters to be assessed in an OSC/ORP assessment should include organizational factors and outcomes that are beyond conventional regulatory requirements, but which are nevertheless pertinent to an organization's safety culture and therefore have an impact on its safety performance. This is the main purpose of an OSC/ORP assessment. It serves to supplement traditional regulatory oversight by addressing organizational factors (latent conditions) that are otherwise beyond purview. An OSC assessment checklist would tend to be more generic in content while an ORP checklist would be more customized to the nature of the organization's operations. An illustration of a possible sector-specific OSC/ORP assessment checklist is provided in Appendix 1.




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**Tanzania Civil Aviation Authority**

## APPENDIX 1: RISK ASSESSMENT CHECKLIST

Note-This OSC/ORP assessment checklist is a conceptual illustration only. The illustrated thirty-seven parameters are not comprehensive and are applicable for a service provider organization. Customization of these parameters for assessment of other service provider types would be necessary.

The annotated result scores are purely illustrative. This OSC/ORP assessment should be conducted on a voluntary basis in view of organization culture/profile parameters which are beyond normal regulatory purview.

| Organization name: |                                                                                                       | Assessed by/date:                                                  |                                                                                                                                             |                                                                                                                                                                                                                 |                     |
|--------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
|                    | Organization risk parameter                                                                           | Risk level/profile                                                 |                                                                                                                                             |                                                                                                                                                                                                                 | Result<br>(Level #) |
|                    |                                                                                                       | Level 3 (least desirable)                                          | Level 2 (average)                                                                                                                           | Level 1 (most desirable)                                                                                                                                                                                        |                     |
| 1                  | Accountable manager — ownership of safety/quality functions                                           | Safety/quality functions non-existent in accountable manager's TOR | Accountable manager's TOR have negligible or indistinct mention of safety/quality functions                                                 | Final accountability for safety and quality matters clearly addressed in the accountable manager's TOR.                                                                                                         | 3                   |
| 2                  | Financial state of the organization                                                                   | TBD                                                                | TBD                                                                                                                                         | TBD                                                                                                                                                                                                             | 2                   |
| 3                  | Average age of fleet                                                                                  | More than 12 years                                                 | 8 to less than 12 years                                                                                                                     | Less than 8 years                                                                                                                                                                                               | 2                   |
| 4                  | SMS performance score                                                                                 | Year 2011: 65% to 75%                                              | 76% to 90%                                                                                                                                  | More than 90%                                                                                                                                                                                                   | 3                   |
| 5                  | Active hazard identification and risk assessment (HIRA) programme                                     | No active HIRA programme in place                                  | HIRA programme in place. Completion or review of 1 to 3 risk assessment projects (per 100 operational employees) within the last 12 months. | Have HIRA programme in place for all major operational areas. Completion or review of more than 3 risk assessment projects (per 100 operational employees) for all operational areas within the last 12 months. | 2                   |
| 6                  | Demanding flight crew schedules or timetables (number of flight time limitation incidents?)           | TBD                                                                | TBD                                                                                                                                         | TBD                                                                                                                                                                                                             | 2                   |
| 7                  | Ratio of internal safety plus quality control staff to all operational staff                          | 1: more than 20                                                    | 1:15 to 20                                                                                                                                  | 1: less than 15                                                                                                                                                                                                 | 3                   |
| 8                  | Mixed fleet flying (MFF) (percentage of pilots involved in MFF — higher percentage is less desirable) | TBD                                                                | TBD                                                                                                                                         | TBD                                                                                                                                                                                                             | 1                   |

|    | Organization risk parameter                                                                                        | Risk level/profile                                                                                       |                                                                                                         |                                                                                                                                                                                | Result<br>(Level #) |
|----|--------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
|    |                                                                                                                    | Level 3 (least desirable)                                                                                | Level 2 (average)                                                                                       | Level 1 (most desirable)                                                                                                                                                       |                     |
| 9  | EDTO routes (percentage of EDTO sectors operated) (higher percentage is less desirable)                            | TBD                                                                                                      | TBD                                                                                                     | TBD                                                                                                                                                                            | 2                   |
| 10 | EDTO duration (higher duration is less desirable)                                                                  | TBD                                                                                                      | TBD                                                                                                     | TBD                                                                                                                                                                            | 2                   |
| 11 | Company experience (years of operation)                                                                            | Less than 5 years                                                                                        | 5 to 10 years                                                                                           | More than 10 years                                                                                                                                                             | 3                   |
| 12 | Combined turnover of the accountable executive, the safety manager and the quality manager over the last 36 months | 3 or more                                                                                                | 2                                                                                                       | 1 or nil                                                                                                                                                                       | 2                   |
| 13 | Experience and qualifications of the accountable executive (as of the assessment date)                             | Has less than 3 years of aviation experience and no technical qualification                              | Has more than 3 years of aviation experience or technical qualifications                                | Has more than 3 years of aviation experience and aviation technical qualifications                                                                                             | 3                   |
| 14 | Experience and qualification of the safety manager (SM)                                                            | Has less than 5 years of civil aviation safety/quality experience or no aviation technical qualification | Has more than 5 years of civil aviation safety/quality experience and aviation technical qualifications | Has more than 15 years of civil aviation safety/quality experience and aviation technical qualifications                                                                       | 2                   |
| 15 | Experience and qualifications of the quality manager                                                               | Has less than 5 years of civil aviation QC/QA experience or no civil aviation technical qualifications   | Has more than 5 years of civil aviation QC/QA experience and civil aviation technical qualifications    | Has more than 15 years of civil aviation QC/QA experience and civil aviation technical qualifications                                                                          | 1                   |
| 16 | Multiple portfolio safety/quality management staff (QM/SM)                                                         | SM or QM holds other simultaneous executive positions within or outside of the organization              | SM or QM TOR include other non-direct safety/quality functions, e.g. IT, administration, training       | SM or QM does not hold any other simultaneous executive positions within or outside of the organization and their TOR do not include other non-direct quality/safety functions | 2                   |
| 17 | Multiplicity of aircraft types                                                                                     | More than 4 aircraft types                                                                               | 3 to 4 aircraft types                                                                                   | Less than 3 aircraft types                                                                                                                                                     | 1                   |
| 18 | Combined fleet reportable/mandatory incident rate (per 1 000 FH) for the last 24 months                            | TBD                                                                                                      | TBD                                                                                                     | TBD                                                                                                                                                                            | 2                   |
| 19 | Reserved                                                                                                           |                                                                                                          |                                                                                                         |                                                                                                                                                                                |                     |
| 20 | Combined fleet engine IFSD rate per 1 000 FH                                                                       | TBD                                                                                                      | TBD                                                                                                     | TBD                                                                                                                                                                            | 2                   |
| 21 | Average fleet MEL application rate (per 1 000 FH)                                                                  | More than 30 MEL applications per 1 000 FH                                                               | 10 to 30 MEL applications per 1 000 FH                                                                  | Less than 10 MEL applications per 1 000 FH                                                                                                                                     | 2                   |
| 22 | Internal technical concession application rate                                                                     | 3 concessions per aircraft per year                                                                      | More than 1 concession per aircraft per year                                                            | Less than 1 concession per aircraft per year                                                                                                                                   | 2                   |
| 23 | CAA technical concession application rate.                                                                         | More than 1 concession per aircraft per year                                                             | More than 0.5 concessions per aircraft per year                                                         | Less than 0.5 concessions per aircraft per year                                                                                                                                | 2                   |

|    | Organization risk parameter                                                                                           | Risk level/profile                                                                                               |                                                                                                                                                                                                             |                                                                                                                                                                                                         | Result<br>(Level #) |
|----|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
|    |                                                                                                                       | Level 3 (least desirable)                                                                                        | Level 2 (average)                                                                                                                                                                                           | Level 1 (most desirable)                                                                                                                                                                                |                     |
| 24 | Safety accountability structure                                                                                       | Safety management function/office/manager is accountable or subservient to some operational functions            | Safety management function/office/manager is accountable to senior management and is independent of all operational functions                                                                               | Safety management function/office/manager has direct accountability and reporting to the CEO                                                                                                            | 3                   |
| 25 | Quality accountability structure                                                                                      | Quality management function/office/manager is accountable or subservient to non-quality/safety-related functions | Quality management function/office/manager is accountable to senior management and is independent of all operational functions                                                                              | Quality management function/office/manager has direct accountability and reporting to the CEO                                                                                                           | 3                   |
| 26 | CAA AOC organization audit findings rate (Levels 1 and 2 findings only, observations excluded) for the last 24 months | Any Level 1 finding or more than 5 findings per audit per aircraft                                               | More than 1 finding per audit per aircraft                                                                                                                                                                  | Less than 1 finding per audit per aircraft                                                                                                                                                              | 2                   |
| 27 | CAA LSI findings rate (Levels 1 and 2 findings only, observations excluded) for the last 24 months                    | Any Level 1 finding or more than 3 per audit per line station                                                    | More than 0.5 findings per audit per line station                                                                                                                                                           | Less than 0.5 findings per audit per line station                                                                                                                                                       | 2                   |
| 28 | Component (rotables/LRUs) soft/CM/hard life policy beyond mandatory or MPD requirements                               | No component life control policy (hard/soft) beyond mandatory or MPD requirements                                | Active component hard life control policy and procedures. At least 5 to 10% of all (MPD/AMS listed) flight and engine control rotables (beyond mandatory and MPD requirements) have been soft or hard life. | Active component hard life control policy and procedures. More than 10% of all (MPD/AMS listed) flight and engine control rotables (beyond mandatory and MPD requirements) have been soft or hard life. | 3                   |
| 29 | Scope of QA investigation and MEDA process                                                                            | Internal QA investigation process applied to mandatory incidents only                                            | Internal QA investigation process for all reported incidents                                                                                                                                                | Internal QA investigation process for all reported incidents + MEDA (or equivalent) process                                                                                                             |                     |
| 30 | Availability of environmental protection programme                                                                    | Non-existent                                                                                                     | Isolated participation in an aviation environmental protection programme                                                                                                                                    | Routine programme and regular engagement and participation in an aviation environmental protection programme                                                                                            | 3                   |
| 31 | Availability of special inspection programme based on non-mandatory OEM service publications                          | Special inspection programme for AD-related SBs only                                                             | Special inspection programme for ADs as well as alert SBs only                                                                                                                                              | Special inspection programme for ADs, alert SBs as well as routine OEM service publications                                                                                                             | 2                   |
| 32 | Control of fleet technical management                                                                                 | Fully contracts out to an external organization (FTM + ITM)                                                      | Partially contracts out to an external organization                                                                                                                                                         | Internal management by AOC organization                                                                                                                                                                 | 2                   |
| 33 | Use of contracted technical staff                                                                                     | More than 15% contracted staff (from another organization) for internal engineering/technical functions          | 5 to 15% contracted staff (from another organization) for internal engineering/technical functions                                                                                                          | Less than 5% contracted staff (from another organization) for internal engineering/technical functions                                                                                                  | 2                   |

|    | Organization risk parameter                                       | Risk level/profile                                                                                             |                                                                                                         |                                                                                                                                              | Result<br>(Level #) |
|----|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
|    |                                                                   | Level 3 (least desirable)                                                                                      | Level 2 (average)                                                                                       | Level 1 (most desirable)                                                                                                                     |                     |
| 34 | Pilot, technician or AME transit inspection certification         | Practises pilot transit inspection certification in lieu of qualified engineering technician/AME               | Practises technician (limited rating) transit inspection certification in lieu of AME                   | Practises only AME (fully type-rated) transit inspection certification only                                                                  | 3                   |
| 35 | Hazard reporting system                                           | None in place                                                                                                  | Voluntary hazard reporting system in place                                                              | Voluntary hazard reporting system in place. Also procedure for identification of hazards in conjunction with incident investigation process. | 2                   |
| 36 | Incident reporting, investigation and remedial action procedures  | No documented incident reporting, investigation or remedial action procedures                                  | Documented incident reporting, investigation and remedial action procedures                             | Documented incident reporting, investigation and remedial action procedures and accepted by the CAA                                          | 2                   |
| 37 | Technical records, technical stores and fleet planning management | Fully contracts out technical records, technical stores and fleet planning management to external organization | Contracts out technical records, technical stores or fleet planning management to external organization | Internal (in-house) technical records, technical stores and fleet planning management                                                        | 3                   |

|                           | Subtotal |
|---------------------------|----------|
| Level 3                   | 11       |
| Level 2                   | 21       |
| Level 1                   | 3        |
| N/A                       | 0        |
| Total number of questions | 37       |

| Assessment result |              |
|-------------------|--------------|
| Total points      | ORP category |
| 78                | D            |

| ORP categorization |                     |
|--------------------|---------------------|
| Total score        | ORP category        |
| 35–49              | A (desirable)       |
| 50–63              | B                   |
| 64–77              | C                   |
| 78–91              | D                   |
| 92–105             | E (least desirable) |

**Notes—**

1. Risk level criteria descriptions/figures are illustrative only, subject to customization and validation of actual figures to be used.
2. Checklist will need to be customized for AMOs, aerodrome and ATS service providers.
3. Points to be allocated for each parameter assessed — namely 1, 2 or 3 for Levels 1, 2 and 3 respectively.
4. This OSC/ORP checklist assessment may be completed by the assigned inspector/surveyor on a scheduled basis (such as during an organization audit). He may need to liaise with the service provider to obtain some of the data required.
5. This OSC/ORP assessment process may not be mandatory in view of those parameters which are outside of normal regulatory purview, e.g. staff turnover rate. It may be administered on a supplementary/voluntary participation basis.
6. Total points achieved and their corresponding ORP Category (Cat A to E) to be annotated. Results should be provided to the organization assessed.
7. Results of this OSC/ORP assessment may be correlated with other regulatory inspection/audit programme findings to identify areas (organizations) with greater concern or need as per the requirements of SSP Element 3.3. Otherwise, notification of ORP results to each organization alone may suffice as a mechanism to encourage organizational behaviour (safety culture) towards the desirable category where applicable.

|    | Organization risk parameter                                       | Risk level/profile                                                                                             |                                                                                                         |                                                                                                                                              | Result<br>(Level #) |
|----|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
|    |                                                                   | Level 3 (least desirable)                                                                                      | Level 2 (average)                                                                                       | Level 1 (most desirable)                                                                                                                     |                     |
| 34 | Pilot, technician or AME transit inspection certification         | Practises pilot transit inspection certification in lieu of qualified engineering technician/AME               | Practises technician (limited rating) transit inspection certification in lieu of AME                   | Practises only AME (fully type-rated) transit inspection certification only                                                                  | 3                   |
| 35 | Hazard reporting system                                           | None in place                                                                                                  | Voluntary hazard reporting system in place                                                              | Voluntary hazard reporting system in place. Also procedure for identification of hazards in conjunction with incident investigation process. | 2                   |
| 36 | Incident reporting, investigation and remedial action procedures  | No documented incident reporting, investigation or remedial action procedures                                  | Documented incident reporting, investigation and remedial action procedures                             | Documented incident reporting, investigation and remedial action procedures and accepted by the CAA                                          | 2                   |
| 37 | Technical records, technical stores and fleet planning management | Fully contracts out technical records, technical stores and fleet planning management to external organization | Contracts out technical records, technical stores or fleet planning management to external organization | Internal (in-house) technical records, technical stores and fleet planning management                                                        | 3                   |

|                           | Subtotal |
|---------------------------|----------|
| Level 3                   | 11       |
| Level 2                   | 21       |
| Level 1                   | 3        |
| N/A                       | 0        |
| Total number of questions | 37       |

| Assessment result |              |
|-------------------|--------------|
| Total points      | ORP category |
| 78                | D            |

| ORP categorization |                     |
|--------------------|---------------------|
| Total score        | ORP category        |
| 35–49              | A (desirable)       |
| 50–63              | B                   |
| 64–77              | C                   |
| 78–91              | D                   |
| 92–105             | E (least desirable) |

**Notes—**

1. Risk level criteria descriptions/figures are illustrative only, subject to customization and validation of actual figures to be used.
2. Checklist will need to be customized for AMOs, aerodrome and ATS service providers.
3. Points to be allocated for each parameter assessed — namely 1, 2 or 3 for Levels 1, 2 and 3 respectively.
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5. This OSC/ORP assessment process may not be mandatory in view of those parameters which are outside of normal regulatory purview, e.g. staff turnover rate. It may be administered on a supplementary/voluntary participation basis.
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## APPENDIX 2. Examples of actions that will enable or disable a positive safety culture

| <i>Element</i>                                                                                                                                                                                                                                                                                                                    | <i>General</i> | <i>Enablers</i>                                                                                                                                                                                                                                                                                                                                                                                            | <i>Disablers</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Commitment to safety</b>                                                                                                                                                                                                                                                                                                       |                |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Commitment to safety reflects the extent to which senior management within the organization have a positive attitude towards safety and recognizes its importance. Senior management should be genuinely committed to achieving and maintaining a high level of safety and give employees motivation and the means to do so also. |                | <ul style="list-style-type: none"> <li>• Management leads safety culture and is actively motivating its employees to care for safety, not only by talking but by acting as role models</li> <li>• Management provides resources for a range of safety-related tasks (e.g. training)</li> <li>• Continuous safety management oversight and governance is established</li> </ul>                             | <ul style="list-style-type: none"> <li>• Management is actively demonstrating that profit, cost reduction and efficiency come first</li> <li>• Investments to improve safety are often made when required by regulations or after accidents</li> <li>• Neither oversight nor governance with regard to safety management is established</li> </ul>                                                                                                                                                                                           |
| <b>Adaptability</b>                                                                                                                                                                                                                                                                                                               |                |                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Adaptability reflects the extent to which employees and management are willing to learn from past experiences and are able to take action necessary in order to enhance the level of safety within the organization.                                                                                                              |                | <ul style="list-style-type: none"> <li>• Employee input is actively encouraged when addressing safety issues</li> <li>• All incidents and audit findings are investigated and acted upon</li> <li>• Organizational processes and procedures are questioned for their safety impact (high extent of self-criticism)</li> <li>• A clear proactive approach to safety is demonstrated and followed</li> </ul> | <ul style="list-style-type: none"> <li>• Employee input on safety issues is not sought from all levels of the employees</li> <li>• Actions are often taken only after accidents or when required by regulations</li> <li>• Organizational processes and procedures are considered adequate as long as no accident occurs (complacency or lack of self-criticism)</li> <li>• Even when an accident occurs the organization is unwilling to question itself.</li> <li>• A reactive approach to safety is demonstrated and followed.</li> </ul> |

| <i>Element</i>                   | <i>General Description</i>                                                                                                                                                                                                                                                                                                                                                                                                | <i>Enablers</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <i>Disablers</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Awareness                        |                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                  | <p>Awareness reflects the extent to which employees and management are aware of the aviation risks faced by the organization and its activities.</p> <p>From a State perspective personnel are aware of both the safety risks induced by their own activities and the organizations they oversee. Employees and management should be constantly maintaining a high degree of vigilance with respect to safety issues.</p> | <ul style="list-style-type: none"> <li>• An effective way of hazard identification has been established</li> <li>• Investigations seek to establish the root cause</li> <li>• The organization stays abreast of important safety improvements, and adapts itself accordingly as necessary</li> <li>• The organization systematically evaluates if safety improvements are implemented and working as intended</li> <li>• Where appropriate members of the organization are well aware of the safety risks induced by their individual actions and company operations / activities</li> </ul> | <ul style="list-style-type: none"> <li>• No effort is spent on hazard identification</li> <li>• Investigations stop at the first viable cause rather than seek the root cause</li> <li>• The organization does not stay abreast of important safety improvements</li> <li>• The organization does not evaluate if safety improvements are implemented properly</li> <li>• Where appropriate members of the organization are not aware of the safety risks induced by their individual actions and company operations</li> </ul> |
| Behaviour with respect to safety |                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                                  | <p>Behaviour with respect to safety reflects the extent to which every level of the organization behaves such as to maintain and improve the level of safety. The importance of safety should be recognized and processes and procedures needed to maintain it should be put in place.</p>                                                                                                                                | <ul style="list-style-type: none"> <li>• The employees motivate themselves to act safely and by acting as role models</li> <li>• Continuous monitoring of safe behaviour is practiced</li> <li>• Intentional unsafe behaviour is not tolerated by management and colleagues</li> <li>• The working conditions support aviation safety at all times</li> </ul>                                                                                                                                                                                                                                | <ul style="list-style-type: none"> <li>• Employees are not punished for intentional unsafe behaviour to the benefits of their own or other interests</li> <li>• The working conditions provoke behaviour and work arounds that are detrimental to aviation safety</li> <li>• No monitoring of aviation safety within the organization's products or services is practiced</li> </ul>                                                                                                                                            |
| Information                      |                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

| <p>Information reflects the extent to which information is distributed to all necessary people within the organization. Employees should be enabled and encouraged to report safety concerns and receive feedback on their reports. Work information related to aviation safety has to be communicated meaningfully to the right people in order to avoid miscommunication that could lead to hazardous aviation system situations and consequences.</p> <p>The State is open to share aviation safety related information to all service providers.</p>                                                                                                                                                                                                                                                                                                                                                                     |                            | <ul style="list-style-type: none"><li>• An open and just safety-reporting environment exists.</li><li>• Employees are provided with safety-relevant information in a timely manner in order to allow for safe operations or decisions to be made.</li><li>• Management and supervisors regularly check whether safety-relevant information is understood and acted upon</li><li>• Knowledge transfer and training with regard to aviation safety is actively practiced (e.g. sharing of lessons learned)</li></ul> | <ul style="list-style-type: none"><li>• A blaming safety reporting environment is evident</li><li>• Safety-relevant information is withheld</li><li>• Safety communication is not monitored for its effectiveness</li><li>• No knowledge transfer or training is provided</li></ul>                                                                                                  |
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| <i>Element</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <i>General Description</i> | <i>Enablers</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <i>Disablers</i>                                                                                                                                                                                                                                                                                                                                                                     |
| Trust                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                      |
| <p>Employee contribution to safety thrives in a reporting environment that fosters trust - trust that their actions or omissions, commensurate with their training and experience, will not be punished. A workable approach is to apply a reasonableness test – i.e. is it reasonable that a person with the same level of experience and training might do the same thing. Such an environment is fundamental to effective and efficient safety reporting.</p> <p>Effective safety reporting systems help to ensure that people are willing to report their errors and experiences, so that States and service providers have access to relevant data and information that is necessary to address existing and potential safety deficiencies and hazards. These systems create an environment in which people can be confident that safety data and safety information will be used exclusively for improving safety.</p> |                            | <ul style="list-style-type: none"><li>• There is a distinction between acceptable and unacceptable behaviour, which is known to all employees.</li><li>• Occurrences (including accidents and incidents) investigations consider individual as well as organizational factors.</li><li>• Good aviation safety performance is recognized and rewarded on a regular basis.</li><li>• There is willingness among employees and operational personnel to report events in which they have been involved.</li></ul>     | <ul style="list-style-type: none"><li>• There is no identifiable distinction between acceptable and unacceptable behaviour.</li><li>• Employees are systematically and rigorously punished for human errors.</li><li>• Accident and occurrence investigations focus on individual factors only.</li><li>• Good safety performance and safe behaviour is taken for granted.</li></ul> |