9104-001 REVISION

Tim Lee – 9104/1 IDR
The Boeing Company
### International Aerospace Quality Group – Revision Progress

#### 9104-001 Revision

<table>
<thead>
<tr>
<th>Date of last report:</th>
<th>Date of this report:</th>
<th>Current Status:</th>
<th>Strategy Stream Leader:</th>
<th>Project Leader:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oct 2019</td>
<td>April 2020</td>
<td>G</td>
<td>Alan Daniels</td>
<td>Tim Lee (IDR)</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Initial Planned Completion Date:</th>
<th>Current Estimated Completion Date:</th>
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<tbody>
<tr>
<td>(From IAQG 105.1 App B)</td>
<td></td>
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<tr>
<td>April 2020</td>
<td>Dec 2020</td>
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#### Project description / benefits:

- Development of a revised 9104-001 standard within the parameters of the approved design specification and IAQG Procedure 105.3 including:
  - Conduct a Process Analysis on the ICOP certification process.
  - Utilize the results of the analysis to identify 9104-001 changes needed, via a revision design specification and submit to the IAQG for approval for a 9104-001 revision initiative by April 2018.
  - Generation of deployment support materials.

#### Recent accomplishments (since last report):

- Virtual meetings continue
- Complete Coordination Draft (CD) – August 2019
- CD ballot – Sept – Oct 2019
- Comments assimilated
- 100% dispositioned (808+ Received)

#### Unresolved issues & decisions needed (if any):

- Current or future OASIS utilization
  - Funding for OASIS changes to support implementation
  - Synchronize 9101 and 9104/1 OASIS changes

#### Next steps (30-60-90 day look ahead):

- Coordination with 9101 team
- Complete Ballot Draft – April 2020
- IAQG Editor Update – April 2020
- First Ballot – May 2020
Core Team Members

- IDR & Project Lead – Tim Lee
- Administrator – Ian Folland
- Americas SDR – Darrell Taylor
- Americas 9104/3 - IDR – Eric Jefferies
- European SDR – Marie-Laurence Petit
- Asia Pacific SDR – Katsuji Fukumoto
- Certification Body Representatives
  - Americas – Bob Parsons (NQA)
  - Europe – Brendon Hill (BSi)
  - Asia Pacific – Shunsuke Yano
- Accreditation Body Representative – Dale Gordon
Rationale for change
– Align with ISO/IEC 17021-1:2015, ISO/IEC 17011:2017 criteria and IAF Mandatory Documents
» ISO as Supplemented by Aviation, Space & Defence industry unique Industry Controlled Other Party (ICOP) sector scheme requirements

Competent auditor + appropriate location + sufficient time = value added audit & report
IAQG 9104-1 Rewrite

• This is a COMPREHENSIVE revision to the 2012 version of the standard in keeping with the current schedule of the ICOP Scheme updates

• Update is “going back to basics…”
  – More emphasis on IAF and ISO/IEC requirements as the baseline for the scheme
  – Builds on ISO/IEC 17011 & 17021-1 and MD requirements
  – Will NOT restate any already stated requirements
  – Eliminates a lot of “unique” scheme requirements

• Also affects 9104-2 and 9101 – in revision also.
Key Changes

Certification Program:

- The organization context, certification structure and audit time calculation shall be revised to include a new Organization Certification Analysis Process (OCAP):
  - Single site and multiple site structures only
  - Aligned with ISO and IAF MDs 9104/1 Table 2 plus 20% (planning & reporting) as a starting point
  Non-applicable processes shall result in audit duration reduction from the established minimum baseline.
  OCAP will be used to drive audit duration increases or allow for decreases, with limitations
Key Changes

- **CB Certification Program: RISK ANALYSIS**

- Data to be supplied by the Client / Organization to the CB
  - On-time delivery of the organization’s product or service to the customer
  - Product or service conformity to customers requirements.
  - Customer complaints or feedback
  - Organizational and process performance (KPIs).
  - PEAR results from the last completed AQMS annual audit.

<table>
<thead>
<tr>
<th>RISK ANALYSIS</th>
<th>% CHANGE</th>
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<tbody>
<tr>
<td>Low</td>
<td>- ≤10%</td>
</tr>
<tr>
<td>Medium</td>
<td>No Change</td>
</tr>
<tr>
<td>High</td>
<td>+ ≥10%</td>
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</table>

Risk is “BY SITE” and adds or subtracts from AUDIT DURATION by SITE
Key Changes

- **Client Participation:**
  
  - The CB shall require client participation in the audit planning process by submitting QMS performance and change data in advance of any audit. The CB process shall also include a review of the submitted data, by the lead auditor, prior to starting the audit. Documented information shall be retained.
  
  - Client must identify supporting IAQG standards they have implemented in their AQMS.

<table>
<thead>
<tr>
<th>Aerospace Standards</th>
<th>Number</th>
<th>Release Date</th>
<th>Contractually Flowed Down &amp; Compliant</th>
<th>Voluntarily Partially Compliant</th>
<th>List Equivalent Industry Standard(s)</th>
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<tbody>
<tr>
<td>Aerospace Series - Root Cause Analytic and Problem Solving (R5 Methodology)</td>
<td>ARP9136</td>
<td>8-Nov-16</td>
<td></td>
<td></td>
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<tr>
<td>Guidance for the Application of AQAP 2110 within a 9100 Quality Management System</td>
<td>ARP9137</td>
<td>6-May-10</td>
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Key Changes

- **CB Certification Program: PBS/RP** (replaces IAF MD3)
- Performance Based Surveillance/Recertification Program (PBS/RP)
  - High Hurdle for Use / Entry into Program
    - Robust Internal Audit Program / AEA for Internal Auditors
    - Low / no Complaints / Meet KPIs consistently
    - Good results / No NCRs from CB audits / only after 1 cert. cycle
  - Methodology – All sites Initial
    - One-Third each surveillance + Central Function
    - One-Third at Recertification + Central Function

NOTE: Central Function can be a virtual site
Transition

• Team has had preliminary discussions regarding transition. The following concepts discussed:
  – ABs to transition within 12 months from publication
  – CB accreditation 18 months from publication
  – Initial certification mandate upon CB re-accreditation
  – Existing certificates transition to be linked to re-certification