Introductions

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## Transition Plan Timeline - 2016

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<thead>
<tr>
<th>Industry Date</th>
<th>NSF Target</th>
<th>Task</th>
</tr>
</thead>
<tbody>
<tr>
<td>9/15/2015</td>
<td>N/A</td>
<td>ISO-9001:2015 Released</td>
</tr>
<tr>
<td>8/1/2016</td>
<td>N/A</td>
<td>Release of draft Supplemental Rule (SR003)</td>
</tr>
<tr>
<td>9/20/2016</td>
<td>N/A</td>
<td>AS9100D Release</td>
</tr>
<tr>
<td>10/20/2016</td>
<td>N/A</td>
<td>AS9110C Release</td>
</tr>
<tr>
<td>10/20/2016</td>
<td>N/A</td>
<td>AS9101F Release</td>
</tr>
<tr>
<td>10/20/2016</td>
<td>N/A</td>
<td>AS9120B Release</td>
</tr>
<tr>
<td>11/30/2016</td>
<td>N/A</td>
<td>AS9100D, AS9101F Auditor Training Released</td>
</tr>
<tr>
<td>12/1/2016</td>
<td>11/1/2016</td>
<td>Provide documented information on requirements of transition to all certified clients</td>
</tr>
<tr>
<td>12/1/2016</td>
<td>11/15/2016</td>
<td>Communicate to AB (through OASIS) dates of readiness to upgrade scope to AS91XX:16</td>
</tr>
<tr>
<td>12/3/2016</td>
<td>N/A</td>
<td>Next Gen OASIS Phase 1</td>
</tr>
</tbody>
</table>
### Transition Plan Timeline - 2017

<table>
<thead>
<tr>
<th>Industry Date</th>
<th>NSF Target</th>
<th>Date</th>
<th>Task</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/1/2017</td>
<td>12/1/2016</td>
<td>1/1/2017</td>
<td>Client establish transition commitment date</td>
</tr>
<tr>
<td>1/16/2017</td>
<td>N/A</td>
<td>1/16/2017</td>
<td>AS9110C, AS9120B Auditor Training Released</td>
</tr>
<tr>
<td>3/1/2017</td>
<td>2/15/2017</td>
<td>3/1/2017</td>
<td>Obtain documented evidence of client's commitment to transition to the upgraded version</td>
</tr>
<tr>
<td>4/22/2017</td>
<td>N/A</td>
<td>4/22/2017</td>
<td>Next Gen OASIS Phase 2</td>
</tr>
<tr>
<td>6/15/2017</td>
<td>10/20/2016</td>
<td>6/15/2017</td>
<td>CB Transition to 17021-1 complete</td>
</tr>
<tr>
<td>6/15/2017</td>
<td>2/1/2017</td>
<td>6/15/2017</td>
<td>CB’s AS9104-001 accreditation updated to include 2016 version of AQMS standards including the 9101:2016 standard</td>
</tr>
<tr>
<td>6/15/2017</td>
<td>2/1/2017</td>
<td>6/15/2017</td>
<td>CB scope of accreditation must include 91XX:2016 criteria</td>
</tr>
<tr>
<td>6/15/2017</td>
<td>6/1/2017</td>
<td>6/15/2017</td>
<td>All CB auditors transitioned and authenticated to new standards.</td>
</tr>
<tr>
<td>6/15/2017</td>
<td>6/15/2017</td>
<td>6/15/2017</td>
<td>All audits conducted to new standards (may be exceptions for &quot;special&quot; audits)</td>
</tr>
<tr>
<td>9/15/2017</td>
<td>N/A</td>
<td>9/15/2017</td>
<td>Current OASIS will no longer accept uploads – Must be in Next Gen</td>
</tr>
<tr>
<td>9/15/2017</td>
<td>9/1/2017</td>
<td>9/15/2017</td>
<td>CBs complete and report risk mitigation plan for un-transitioned certified clients</td>
</tr>
<tr>
<td>12/1/2017</td>
<td>11/15/2017</td>
<td>12/1/2017</td>
<td>Conduct risk mitigation plan for any client that has not transitioned</td>
</tr>
</tbody>
</table>
## Transition Plan Timeline - 2018

<table>
<thead>
<tr>
<th>Industry Date</th>
<th>NSF Target</th>
<th>Task</th>
</tr>
</thead>
<tbody>
<tr>
<td>9/15/2018</td>
<td>N/A</td>
<td>ISO 9001:2008 and AS Standards (AS9100C, AS9110B and AS9100A) cancelled</td>
</tr>
<tr>
<td>9/15/2018</td>
<td>N/A</td>
<td>Transition complete - All non-transitioned certificates expire</td>
</tr>
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1. The state in which a product is able to perform to its designed or intended purpose without causing unacceptable risk of harm to persons or damage to property. (9100) (9110)

2. Maintaining the state of product so that it is able to perform to its designed or intended purpose without causing unacceptable risk of harm to persons or damage to property (9120)

Updated: 16 Nov 2016

Created: 16 Nov 2016
3.4 Product Safety

*The state in which a product is able to perform to its designed or intended purpose without causing unacceptable risk of harm to persons or damage to property.*
7.3 Awareness

The organization shall ensure that persons doing work under the organization’s control are aware of:

a. the quality policy;

b. relevant quality objectives;

c. their contribution to the effectiveness of the quality management system, including the benefits of improved performance;

d. the implications of not conforming with the quality management system requirements;

e. relevant quality management system documented information and changes thereto;

f. their contribution to product or service conformity;

g. their contribution to product safety;

h. the importance of ethical behavior.
8.1 Operational Planning and Control

The organization shall plan, implement, and control the processes (see 4.4) needed to meet the requirements for the provision of products and services, and to implement the actions determined in clause 6, by:

a. determining the requirements for the products and services;

   NOTE: Determination of requirements for the products and services should include consideration of:

   - personal and product safety;
   - producibility and inspectability;
   - reliability, availability, and maintainability;
8.1 Operational Planning and Control

The organization shall plan, implement, and control the processes (see 4.4) needed to meet the requirements for the provision of products and services, and to implement the actions determined in clause 6, by:

b. establishing criteria for:

1. the processes;

2. the acceptance of products and services;

 NOTE: According to the nature of the product and depending on the specified requirements, statistical techniques can be used to support:

- design verification (e.g., reliability, maintainability, product safety);
8.1.3 **Product Safety**

The organization shall plan, implement, and control the processes needed to assure product safety during the entire product life cycle, as appropriate to the organization and the product.

**NOTE:** Examples of these processes include:

- assessment of hazards and management of associated risks (see 8.1.1);
- management of safety critical items;
- analysis and reporting of occurred events affecting safety;
- communication of these events and training of persons.
8.4.3 Information for External Providers

The organization shall ensure the adequacy of requirements prior to their communication to the external provider.

The organization shall communicate to external providers its requirements for:

- ensuring that persons are aware of:
  - their contribution to product or service conformity;
  - their contribution to product safety;
  - the importance of ethical behavior.
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Product Safety - Addition

- New clause (8.1.3) on Product Safety, including requirements to address product safety considerations throughout the product lifecycle (use the NOTE as guidance) + revision for consistency of other clauses related to safety – 7.3, 8.1, 8.4.3 & 8.5.4
- A full Safety Management System (SMS) as defined by ICAO (International Civil Aviation Organization) is not required by 9100, but the introduction of the new clause contributed to the SMS approach
Product Safety - Rationale

- Industry acknowledgement of the importance of increasing safety
- Recognition of the 9100 certifications by authorities is part of IAQG strategy
Product Safety - Definition

The state in which a product is able to perform to its design or intended purpose without causing unacceptable risk of harm to persons or damage to property.
Product Safety – Examples of Activities to Consider

Assessment of hazards and mitigation of associated risks:
• Implement FMEA relating to product (DFMEA) and processes (PFMEA)
• Perform safety analysis
• Identify and mitigate risks relating to the organization and its personnel (human factors, management of responsibilities)

Management of safety critical items:
• Define and implement a monitoring control plan for critical items identified through FMEA and safety analysis
Analysis and reporting of occurred events affecting safety:

- Organize the collection of potential and occurred events, and analyze their impacts with specialists.
- Organize the internal escalation process and external reporting to interested parties.
- Analyze the adverse trends of products in service reliability and define appropriate actions.
Product Safety – Examples of Activities to Consider

Communication of these events and training of personnel:

• Promote safety culture and lessons learned from occurred events (impacts of the parts delivered by the organization on the final product safety)
  > Diligence exercises, TRIZ

• Prevent occurrence of safety issued by taking into account industry experience (including occurrences on other products with similar functions or based on same technologies or components).
Product Safety – Benefits

- Increased awareness of how organizations contribute to product safety
- Minimize safety risk
- Safety integrated and embedded with processes
- Ensures flow down on product safety issues and criteria
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ISO Standards Update Information

AS9100: 2016

The revision of the AS9100 standard is now at the final draft stage and it is on target for release in the spring of 2016. The AS9100 standards (including AS9110 and AS9120) will continue to be based on the latest version of ISO 9001. Because the deadline for implementing the AS9100:2016 standards and ISO 9001:2015 is the same (September 2018), the delay of AS9100:2016 being released will create a short time period for AS-registered organizations to transition to this new standard.

Since the transition timeframe will be condensed, it is never too early to start preparing. We at NSF-ISR will be here to guide you every step of the way, with tools and answers to your many questions. We are developing a series of webinars, a readiness tool that will walk you through a gap analysis of your system in relation to the revised requirements of AS9100, transition guides and upgrade checklists.

NSF-ISR is well represented at Americas Aerospace Quality Group (AAQG) Registration Management Committee (RMC) meetings, and as more information becomes available (regarding the transition and other industry happenings), NSF-ISR will provide updates.

Webinar Series

NSF-ISR is developing a series of webinars that will not only explain the changes to the standard but will also help prepare you, and your QMS, for what is to come. These webinars will help you better work with a process-based approach to business along with highlighting the major changes to the AS9100 set of standards. The first of these webinars is now available for download.

Resources available at www.nsf.org/info/iso-updates
Transition Resources

NSF has a number of tools developed for assisting in the transition. As more become available, you can also find them at [www.nsf.org/info/iso-updates](http://www.nsf.org/info/iso-updates)

- Transition Guide
- Gap Assessment Tool (Released Nov 2016)
- Internal Audit Tool (Released Nov 2016)
- Additional tools are planned for the future and we welcome input on items that will benefit our clients.

Note: These are optional resources to help in the transition process and use is not required.
Thank You!

If you have questions about the upcoming aerospace transitions, please contact us:

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