



Toward a Nuclear Industry Controlled Certification Scheme?

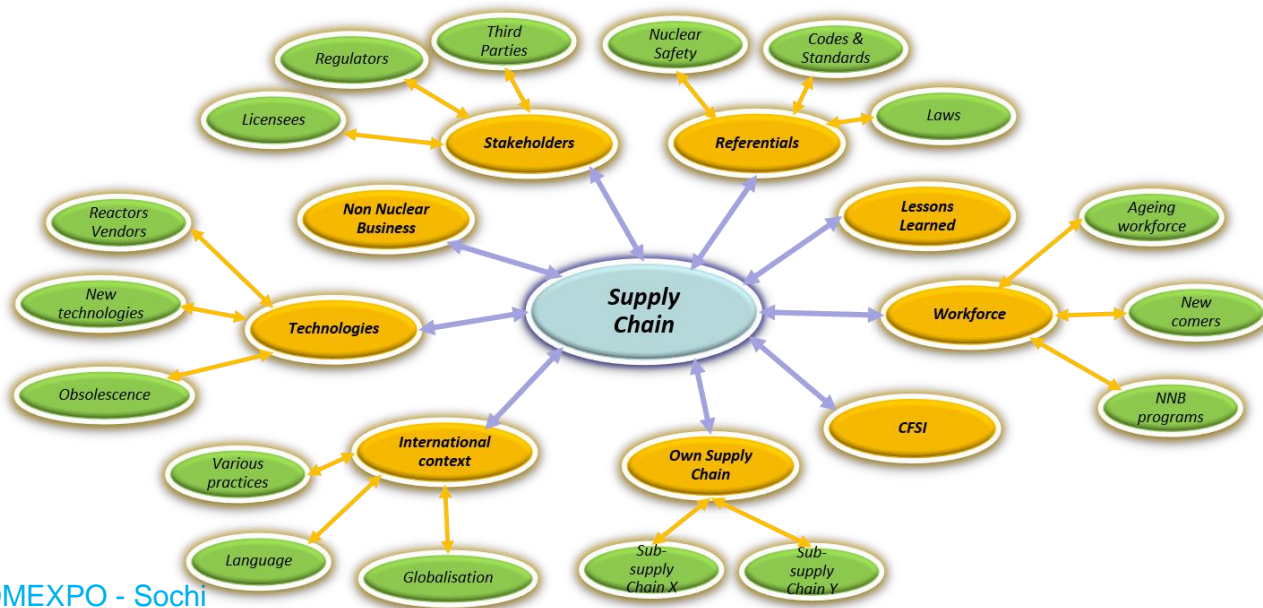
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“Quality management systems”

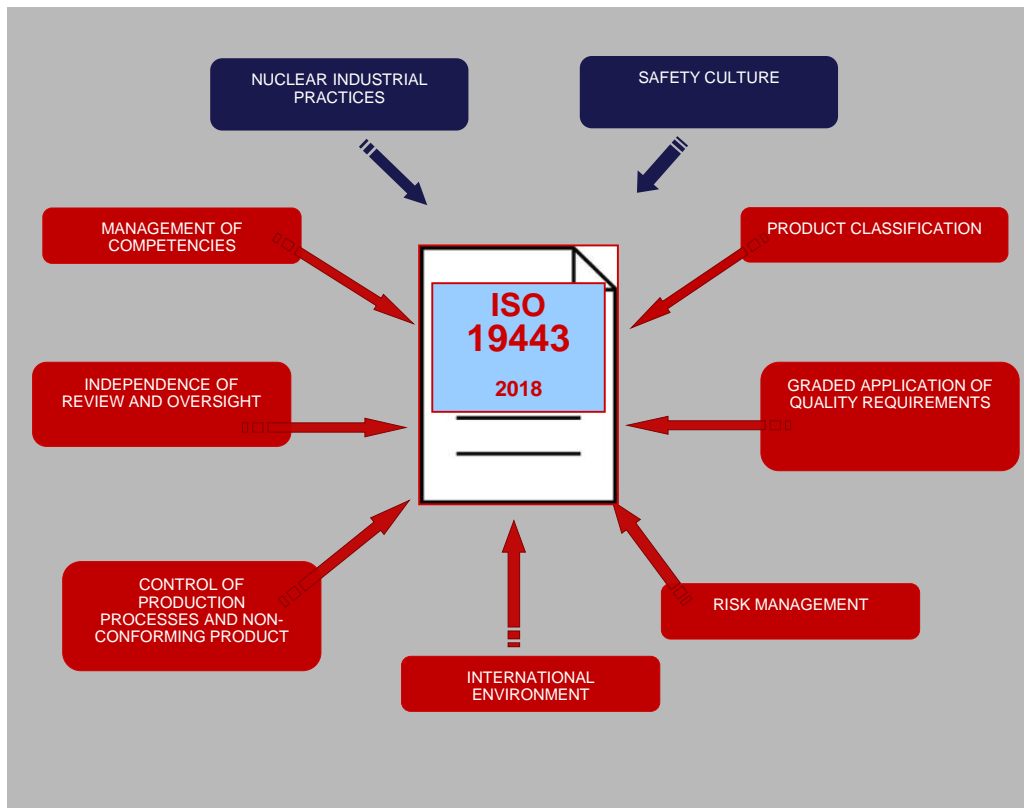
Specific requirements for the application of ISO 9001:2015 by organizations in the supply chain of the nuclear energy sector supplying products and services Important To Nuclear Safety (ITNS)



ISO 19443 - Main additional requirements

In addition to ISO 9001, the requirements mainly focus on:

- ◆ **Quality Management Program**
- ◆ **Safety Culture**
- ◆ **ITNS classification**
- ◆ **Graded approach**
- ◆ **Cascading requirements**
- ◆ **Independence of verification**
- ◆ **Competency management**
- ◆ **Design control**
- ◆ **Procurement control**
- ◆ **Non-conforming outputs**
- ◆ **Communication**



■ Standardize the requirements

- ◆ Built on industrial practices already well understood and applied in other industries
- ◆ Integrates nuclear requirements (from various origins : major stakeholders, NQA-1, IAEA GSR part 2)
- ◆ Supported by an implementation guidance



■ Help suppliers through an unique and shared quality referential

- ◆ Over the time, represents a greater attractiveness for suppliers as an international and recognized standard, trans-project
 - ⇒ **cost reduction, quality enhancement**
- ◆ Creates a capitalization of know-how and competence of supply chain
 - ⇒ **create a high quality referential for nuclear suppliers**



■ **Publication of ISO 19443 in 2018**


- a major first step towards the international standardization of nuclear suppliers assessment.

■ **ISO 19443 guidance material.**

- Technical note reviewed under ISO process
- Approval target for this summer
- Issuance in 2019

■ **Accreditation – Certification : Technical Specification TS23406**

- Kick Off Meeting October 2018
- 3 WG (ISO & CASCO) meetings held
- Ballot for comments mid-2019
- Target for issuance in 2020

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- ▶ Association founded by Framatome & Bureau Veritas
 - ▶ 7 companies are full members, WNA is associated member
 - ▶ Our aim : promote the standardisation of supplier oversight
 - First standard NSQ 100 published by NQSA in 2010
(based on ISO 9001-2008 & IAEA GSR-3)
 - 8 guidelines published in 2011 for NSQ100 implementation
 - NSQ 100 was used as a first draft for ISO 19443, proposed in 2015
 - ▶ Actively supporting the ISO19443 published in May 2018

Challenges for the Nuclear Industry in the implementation of ISO 19443

- **Should Nuclear Industry increase cooperation to get prepared for the implementation of the new standard ISO 19443 and open a dialogue to review the way of using this standard at an international level :**
 1. ISO 19443 requirements can be simply used in the supplier assessment process, without any certification request,
 2. ISO 19443 accredited certificates can be requested by the Nuclear Industry according the use of specific ISO TS 23406 to include nuclear requirements for certification process,
 3. ISO 19443 certification scheme could be controlled by the nuclear industry, with an approach similar to other industry models : aeronautics, automotive, rails

Conclusions of NQSA seminar 2018

(organised in cooperation with WNA)

11 companies & organisations participated to discuss possible certification schemes

- **Large support to ISO ongoing work**
- **An Nuclear Industry Controlled Certification Scheme could be an opportunity to improve performance in the implementation of ISO19443 => objective : greater confidence and recognition in the certification**
- The **competence/experience of auditors is key** for ensuring performance of audits, where ISO accreditation processes don't include any specific requirements



Cooperation Roadmap

Nuclear Industry-Controlled Certification Scheme

3 topics of cooperation

- ☐ To cooperate on defining **the most adequate scheme**: scope, participants, rules, governance, functioning, and interface with other organisations (such as regulators or accreditation bodies) or nuclear industry associations (for example, reactor owners' group, WANO, NUPIC, CANPAC).
 - ☐ The working group will address topics such as national practices for accreditation, unified approach for recognition of certification bodies under the scheme, scheme recognition by national legislations, national organisation, international coordination, funding, and oversight arrangements.
- ☐ To cooperate on a **scheme to strengthen the competence of the ISO 19443 auditors** by:
 - ☐ Reviewing the competency expectations and independence of auditors and the mechanisms through which the industry will ensure these expectations are met;
 - ☐ Collecting good practices on the performance of quality auditors;
 - ☐ Reflecting on a training-qualification-supervision scheme for auditors under ISO 19443 that can be controlled by the industry.
 - ☐ With a clear objective of not duplicating the ISO TS 23406 WG activities
- ☐ To cooperate on information exchanges and mutual recognition of national certifications.
 - ☐ Existing exchange platforms that exist in the aeronautics, automotive and the railway industries can be used as input data. Consideration will be given to topics such as: shared data base, what information can be shared and with whom.

Cooperation Roadmap Proposal

Nuclear Industry-Controlled Certification Scheme

Bureau Veritas
EDF
ENERGOATOM
ENGIE
FRAMATOME
NQSA
ROLLS-ROYCE Civil Nuclear
ROSATOM
SAFETY DIRECTORS' FORUM
WORLD NUCLEAR ASSOCIATION



WG #1 - Topics under discussion

- A. Scope of the WG activities
- B. Purpose of the potential scheme, with identification of targeted benefits
- C. Participants to the scheme (key players, members, new joiners,...)
- D. Rules and governance, oversight, reporting
- E. Functioning, main principles
- F. International and national organization, coordination, reporting
- G. Funding
- H. Unified approach for recognition of certification bodies under the scheme,
- I. Interface with other organisations (such as regulators or accreditation bodies) or nuclear industry associations (for example, reactor owners' group, WANO, NUPIC, CANPAC). Definition of objectives, timeline, actors.
- J. Scheme recognition by national legislations. Definition of objectives, timeline, actors
- K. Communication strategy for awareness of the scheme
- L. Proposal of a timeline for implementation

WG #2 - Topics under discussion

- A. Auditor Selection
- B. Initial Training
- C. Qualification process
- D. Re-training – Competency development – Best practices sharing
- E. Supervision of auditors
- F. How to organize the process ? Roles and responsibilities
- G. Initial deployment / ramp up
- H. Timeline for implementation

Thank you for your attention