The nuclear supply chain: an update on World Nuclear Association activities

Greg KASER
Staff Director – Supply Chain Working Group

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Introduction

The World Nuclear Association represents and supports the nuclear energy industry and its people and enterprises. Its mission is to promote a wider understanding of nuclear energy, to develop common industry positions and contribute to the energy debate.

- Timely, concise, daily reporting
- 3 million page views per year
- 730,000 users
- 27,900 email subscribers

Number of followers on WNN Twitter account

25k
Supply Chain Report

Aims to provide the industry, energy suppliers, the investment community and policy-makers with:

- An up-to-date picture of planned and ongoing nuclear power plant construction;
- An analysis of the worldwide market for components;
- An analysis of supplier capacity;
- A review of trends in the market;
- A look at how the industry is addressing the challenges in the market;

Complements the WNA’s Nuclear Fuel Report
Supply Chain Working Group

Set up in 2010 to:
- Share general information and leading practices;
- Address common issues in the manufacture of components and systems;
- Facilitate safe, timely and cost-efficient construction and refurbishment of nuclear power plants.

Two task forces:
- Vendor Oversight and Control of Suppliers (VOCS) 2012-2015
- New Build Lesson-learning 2015 – ongoing

Supplier Forum 2014
- Communication issues
- Expectations
- Goal alignment
Key issues raised by suppliers (Supplier Forum 2014)

• Lack of **consistency** in regulatory and customer requirements

• **Unclear direction** from the customer to the supplier: Purchase information is confusing or incomplete

• **Schedule pressures**: slow response times and not getting the supplier involved soon enough in the process

• **Customer responsiveness** to make changes and corrections

• Customer takes for granted that the **supplier understands** the specification and requirements
Manage the interfaces

Tier 1: Technology Vendor/ EPC
Tier 2: System Integrators
Tier 3: Original Equipment Manufacturers
Tier 4: Sub-component Suppliers/ Distributors
Tier 5: Processors/ Fabricators
Tier 6: Raw Material Suppliers/ Miners

Safety Regulator
Licenced Operator
Delivery

Interface management
Flow-down of specification requirements

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Interface management
Flow-down of specification requirements
Vendor oversight is critical

The nuclear supply chain needs a production system that:

• Defines what has to be done clearly (planning);
• Does it right (quality control);
• Checks it is being done right (oversight);
• Puts right what goes wrong and learns (improvement);
• Is committed to excellence (leadership).
Other supply chain issues

Counterfeit, fraudulent and suspect (CFS) items

Export controls

Safety culture attributes along the supply chain

Technical barriers to trade

• Harmonized licensing processes and mutual recognition of national regulatory determinations

• Strengthen and continue the codes convergence process (CORDEL and Standard Development Organizations)
Thank you:
Greg KASER
WNA London
greg.kaser@world-nuclear.org
www.world-nuclear.org