

Supply Chain Oversight – Experience in Finland

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Outline

- Background
- Recent Changes in Nuclear Sector
- Experience with Supply Chain Management
- Supply Chain Oversight
- Related References

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Nuclear power plants in Finland

Fennovoima Ltd

- New utility, no operating reactors, DIP approved for HA1, Hanhikivi Site

Olkiluoto NPP (TVO)

- 2 operating units - ABB BWRs
- OL3 (EPR) under construction
- DIP approved for OL4




Photo: TVO

Loviisa NPP (Fortum)

- 2 operating units - VVERs

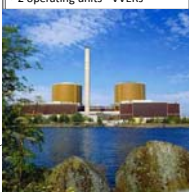




Photo: Fortum



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Generic Issues to Focus in Supply Chain Oversight 1/2

- Contracts are
 - explicit
 - allocating clearly responsibilities of all stakeholders
 - addresses powers of the licensee
- Specifications for supplies
 - are detailed, unambiguous and fixed for the design, implementation, quality management
 - specificities coming from nuclear sector are clearly addressed

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Generic Issues to Focus in Supply Chain Oversight 2/2

- Whole Supply Chain is managed and overseen
 - clear supplier selection criteria
 - robust supplier audit and approval process
 - training of the suppliers is planned
 - oversight process is systematic and well resourced
 - results of the oversight are documented
 - presence at the shop floors and communication with the suppliers
- Experienced and responsible suppliers are used
 - If not, all of the above becomes much more important

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Some Key Areas for Supply Chain Oversight

- Safety significant products and processes
- Inexperienced suppliers in the supply chain
- Unique or unusual features or novelties in the product or in the process
- Challenging products and processes
- Issues additional to the normal production of the supplier
- Requirements – how requirements are passed on in the chain (long multinational supply chains)

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Regulatory Oversight of Supply Chain - Specifics

- Clear and pre-established requirements for the product and for the process
- Timely and consistent regulatory decisions and oversight – “integrated to the process”, planned audits/inspections with graded approach
- Knowledge on procurement, contracting, management systems, technical expertise in question
- Presence at the shops and communication with the licensee and with the supply chain
- Role of encouraging and promoting positive safety culture

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Related References

- The procurement of the emergency diesel generators (EDG) for the Olkiluoto 3 nuclear power plant (http://www.stuk.fi/stuk/tiedotteet/en_GB/news_693/)
- The Regulator’s Role in Assessing the Licensee’s Oversight of Vendor and Other Contracted Services
also referenced as: NEA No. 6910 (<http://www.oecd-nea.org/nsd/docs/indexcnra.html>)

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