

# **Quality Management at ESS**

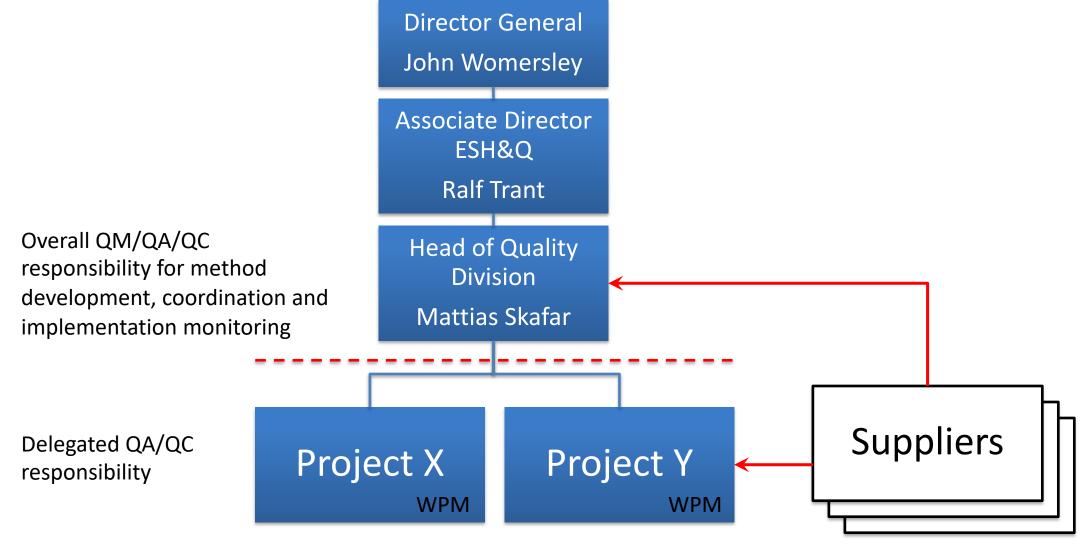
Big Science Sweden 2019

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European Spallation Source ERIC
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## **Quality Division - Organisation**

Delegated responsibility





## **Organisation of Quality Division**



### **Q** Division

Mattias Skafar (HoD)

### **Q** Assurance

Ivan Korunoski, Snr. QAO Aurelién Pitois, QAO Req. Mgmt. TBD

### **Q** Control

Cecilia Lowe, QC-Mech.
Conny Wendt, QI
Kenth Ödbratt © Q Div
Stefan Arvidsson © QC-Elec.
Maurice Looft © CE marking
Björn Rundcrantz © Acc.
Mikael Beise © Target

### Installation org.

QC – Mechanical QC – Electrical

### Third-party

Tuv-Nord Dekra Q Doc. Mgmt.

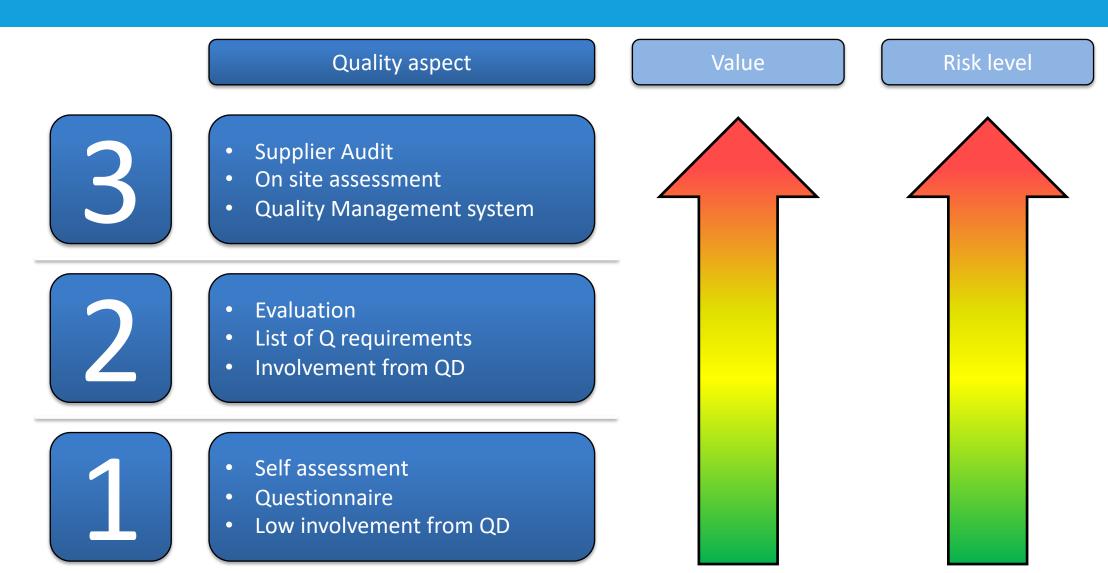
Diana Bading



# Supplier assessment (Key suppliers)

Graded approach

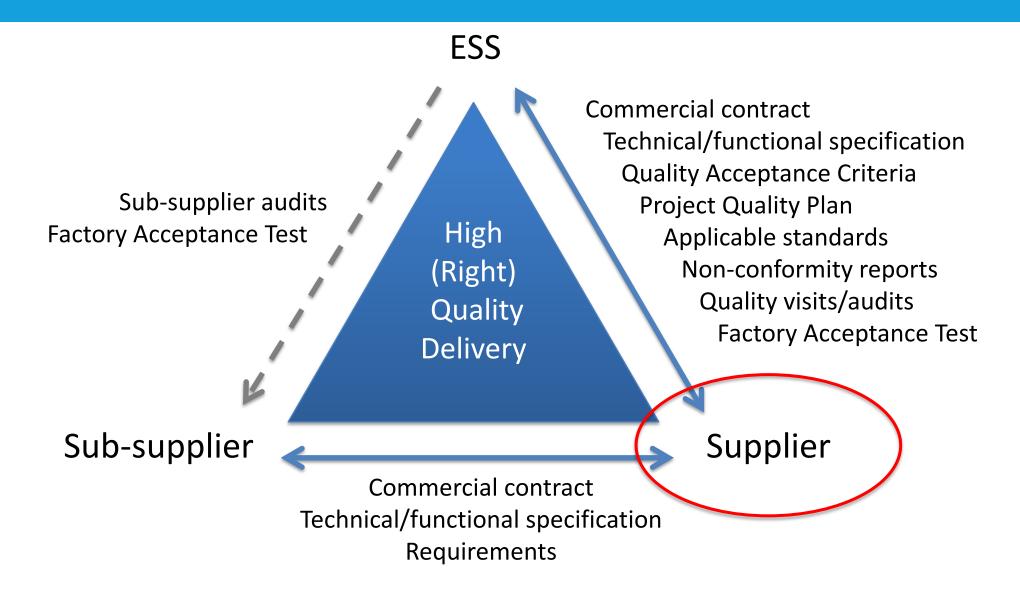




## **Quality Management**

#### Foundation





# **Execution of Quality work**



- ESS expectations is that the supplier:
  - Plan Quality assurance
  - Perform planed Quality assurance
  - Demonstrate performed quality work

Plan First Science 2023 **Perform** 

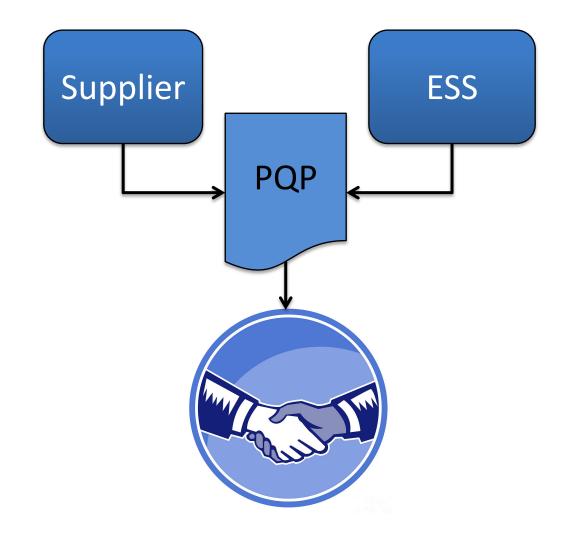
**Demonstrate** 

# Project Quality Plan – PQP

### Purpose



- The PQP serves as a link between the supplier and ESS
- The PQP addresses fundamental topics to secure high quality level on execution and delivery
- The PQP needs to be agreed and approved by both parties before manufacturing starts



# **Engineering work**

### Depending on contract



- Depending on contract:
  - Design
  - Build
  - Install

And a combination of these

- Fundamental Quality focus areas:
  - Requirement Management
  - Configuration Management
  - Verification & Validation
- This will give us the means to:
  - Install,
  - Operate,
  - Maintain,
  - Repair and update

In a cost effective way



# **External support/opportunities**



#### **Present Situation**

- Construction, Installation and start of commissioning/operations.
- Frame-work agreements for technical consultants.
- Quality Division is coordinating:
  - Quality Assurance
  - Quality Control (Mechanical and Electrical)
  - Management of Documented Information
  - CE marking
  - Requirement Management
  - Inspections

#### In Operation

- Operation but also installation, and commissioning
  - Quality Assurance:
    - Management System
    - Audits
  - Quality Control:
    - Maintenance
    - Repairs
    - Up-grades
  - In-service inspections

Current consultant need: Quality Control Mech. & Electrical, Requirement Management

# Thank YOU for your time!



