

## **Procurement Guidelines Aeronautics Airframe**



## **Commercial requirements**

- Procurement major part of product value i.e. cost efficient manufacturing is vital. LEAN approach is a necessity
- Recurring Cost (RC) must be competitive "all the time"
- Normal business terms for aerospace industry will apply. As stipulated in:
  - Saab's General Conditions of Purchase
  - Frame Purchase Agreement or Company Group Frame Purchase Agreement
  - Full Gripen Business Agreement (Dev. and/or major industrialization effort)





## Saab supplier assessment process

- To systematically investigate and assess a proposed supplier's ability to accomplish a delivery commitment
- Scope of the assessment is determined by the planned scope of the supplier's <u>delivery commitment</u>

Self Desktop assessment Request complementary info On site assessment Evaluation & Recommendation

Typical Areas for assessment:

Company Information / Financial / Human Resources / Procurement / Logistics & Communications / Planning & Capacity / Quality and Environment / Information and Communication Technology / Export Control Compliance / Site Security / Information and Communication Technology Security / Digital Product Definition and Model Base Definition / Production / Industrialization Painting / Surface Treatment / Tooling / Industrialization / Record Retention



## QMS/EMS requirements for Saab AER ASL

- QMS: Aerospace series i.a.w. EN9100
- EMS: Environmental management i.a.w. ISO14001

### Main differences between EN9100 and ISO9001 with focus on production organizations:

#### **4 Quality Management System**

- 4.2.4 Control of Records:
- Added focus on <u>control</u> of supplier related records

#### **5 Management Responsibility**

- 5.2 Customer Focus
- Extended customer focus: "Top mgmt shall ensure that product conformity and on-time delivery performance are measured and that appropriate action is taken if planned results are not, or will not be, achieved."

#### 7 Product Realization

- 7.1 Planning of Product Realization:
- Extended scope with subchapters focusing on <u>Project mgmt</u>, <u>Risk mgmt</u>, <u>Configuration mgmt and</u>
  Control of Work Transfers

#### 7 Product Realization

- 7.4 Purchasing
- Extended scope of responsibility: "The organization shall be responsible for the conformity of all products purchased from suppliers, including product from sources defined by the customer.
- "Detailed requirements on approval, monitoring and control of suppliers and purchased products

#### 7 Product Realization

- 7.6 Control of Monitoring and Measurement Equipment
- Extended requirements regarding systematic handling (processes for calibration/ verification) of Monitoring and Measurement equipment

#### 7 Product Realization

- 7.5 Production and Service Provision:
- Detailed requirements regarding control of: traceability, resources, processes verification (FAI), process changes, configuration mgmt. - Extended requirements on Post-Delivery Support
- Extended requirements on Preservation of Product

### 8 Measurement, Analysis and Improvement

- 8.2 Monitoring and Measurement
- Detailed additions on monitoring and measurement of customer satisfaction, fulfillment of customer requirements, process and product data.
- 8.3 Control of Nonconforming product
- Extended focus on authorization of dispositions and containment of defect products.



# Technical requirements for manufacturing. Model Based Definition (MBD)

- Product definition will only be provided in digital format i.e.no paper drawings will be available
- The supplier is responsible to have the capability for receiving and managing product data
- Full MBD definition in CATIA V5 R23. A translation from CATIA to 3DVIA format is available for visualization of the requirements



## Performance in a LEAN supply chain

- Optimized Lead times & Batch sizes
- Productivity
- Delivery (Perfect Order Fulfillment, POF)
  - On time
  - Correct Quantity
  - Perfect Condition Quality
  - Documentation Accuracy
- Flexibility to adapt to changes in production rate
- Response time
- Communicate deviations & corrective actions early
- KPI & scorecard



