



1 CAD

2 OPTIMISED PART

3 TEXTURED PART

4 "SPR" PART

## AAR Tech Review

**Goal:** Agreement on appearance and perceived quality to optimize part design before tool production

**Focus:** General design features, grain-, draft angle-, simulation of moulding process analyses and mould design, AAR acceptance criteria

**Part status:** Before tool is initiated

**Attendees:** Supplier, Part owner, SQA, Purchaser, C&T, Studio engineer, DQS<sup>1</sup>

**Location:** Conference room at Scania

**Deliveries:** Signed action list (checklist)

### Actions

1. Supplier and Part owner invites the attendees above to an AAR Tech Review.
2. Part owner books the meeting.
3. AAR Tech review responsibilities:
  - Supplier present simulation of moulding process / CAD files. Intended grain is evaluated, possible limitations, draft angle analysis, split lines, injection point locations are identified etc.
  - The Part owner present lessons learned from previous similar parts (if possible)
  - DQS present the expectation level and acceptance criteria for the final parts and lessons learned
  - Go through part criteria checklist for engineering of parts (RCDD, Studio engineer)
  - Decide effective modifications necessary to reach the requirements of perceived quality
4. After the meeting, the signed AAR tech review checklist is uploaded to the AAR portal (Scania-aar.prssystem.com).

## Part Quality Evaluation

**Goal:** A tool ready for graining

**Focus:** Shape, parting lines and polish

**Part status:** *Optimised* part - judged by the supplier to be ready for graining 2 pieces / part and cavity

**Attendees:** Part owner, Studio engineer, DQS

**Location:** AAR room at Scania

**Deliveries:** AAR report

### Actions

1. Supplier notify Scania by clicking the "sent parts" box in the AAR portal.
2. Part owner send an evaluation request to DQS: [aar.inbox@scania.com](mailto:aar.inbox@scania.com)
3. The DQS book evaluation with attendees
4. Part Quality Evaluation responsibilities:
  - Part owner present parts with supplier comments
  - Studio engineer verifies that overall shape is acc. to specification
  - DQS evaluate appearance and fills in the report
  - DQS publish the report in the AAR Portal (Scania-aar.prssystem.com). The report is distributed to supplier, part owner and SQA.

## Grain Verification\*

**Goal:** A grain according to specification

**Focus:** Grain and Gloss

**Part status:** Textured part 2 pieces / part and cavity

**Attendees:** DQS and C&T (if needed), Part owner (optional)

**Location:** AAR room (or at production site)

**Deliveries:** AAR report

### Actions

1. Supplier notify Scania by clicking the "sent parts" box in the AAR portal.
2. Part owner send a verification request to DQS: [aar.inbox@scania.com](mailto:aar.inbox@scania.com)
3. The DQS book verification meeting with attendees
4. AAR Grain Verification responsibilities:
  - DQS verify appearance and fill in the report
  - DQS publish the report in the AAR Portal (Scania-aar.prssystem.com). The report is distributed to supplier, part owner and SQA.

\*N/A for ungrained parts

## Final AAR Verification

**Goal:** A part that fulfils the appearance requirements for series production<sup>2</sup>

**Focus:** Colour, texture, gloss and overall aspect (including gaps within an assembly)

**Part status:** Part produced according to series. 3\* pieces / assembly to be used as master samples (\*4 parts if painted!)

**Attendees:** DQS, Part owner (optional)

**Location:** AAR room at Scania

**Deliveries:** Signed AAR report and signed master samples

### Actions

1. Supplier send parts to Scania, using the AAR pallet flag. Measurement reports (dimension and colour and gloss measurements) shall be sent to [aar.inbox@scania.com](mailto:aar.inbox@scania.com).
2. Part owner send a verification request to DQS: [aar.inbox@scania.com](mailto:aar.inbox@scania.com)
3. The DQS book verification meeting with attendees
4. Final AAR verification responsibilities:
  - DQS verify appearance & publish the AAR report. The report is distributed to supplier, part owner, SQA and group manager
4. Group manager signs the final AAR report directly in the AAR portal.
5. Supplier submit a PDF or link to the signed final AAR report in the e-PPAP system.

<sup>2</sup> Correct location, process parameters, enough number of parts etc (i.e. comparable to SPR)

<sup>1</sup> DQS = Design Quality Specialist (performs the AAR evaluations)