



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, DQS¹

Location: Conference room at Scania

Deliveries: Signed action list (checklist)

Actions

- Supplier and Part owner invites the attendees above to an AAR Tech Review.
- Part owner books the meeting.
- 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
- 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

- Supplier notify Scania by clicking the "sent parts" box in the AAR portal.
- Part owner send an evaluation request to DQS: aar.inbox@scania.com
- The DQS book evaluation with attendees
- 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

- Supplier notify Scania by clicking the "sent parts" box in the AAR portal.
- Part owner send a verification request to DQS: aar.inbox@scania.com
- The DQS book verification meeting with attendees
- 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 production²

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

- 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.
- Part owner send a verification request to DQS: aar.inbox@scania.com
- The DQS book verification meeting with attendees
- Final AAR verification responsibilities:
 - DQS verify appearance & publish the AAR report. The report is distributed to supplier, part owner, SQA and group manager
- Group manager signs the final AAR report directly in the AAR portal.
- Supplier submit a PDF or link to the signed final AAR report in the e-PPAP system.

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

¹ DQS = Design Quality Specialist (performs the AAR evaluations)