

NTSB Fuselage Structural Integrity Forum – Panel 4; Manufacturing and Production Quality Assurance



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SEPTEMBER 2011

Integrated Management System



Requirements



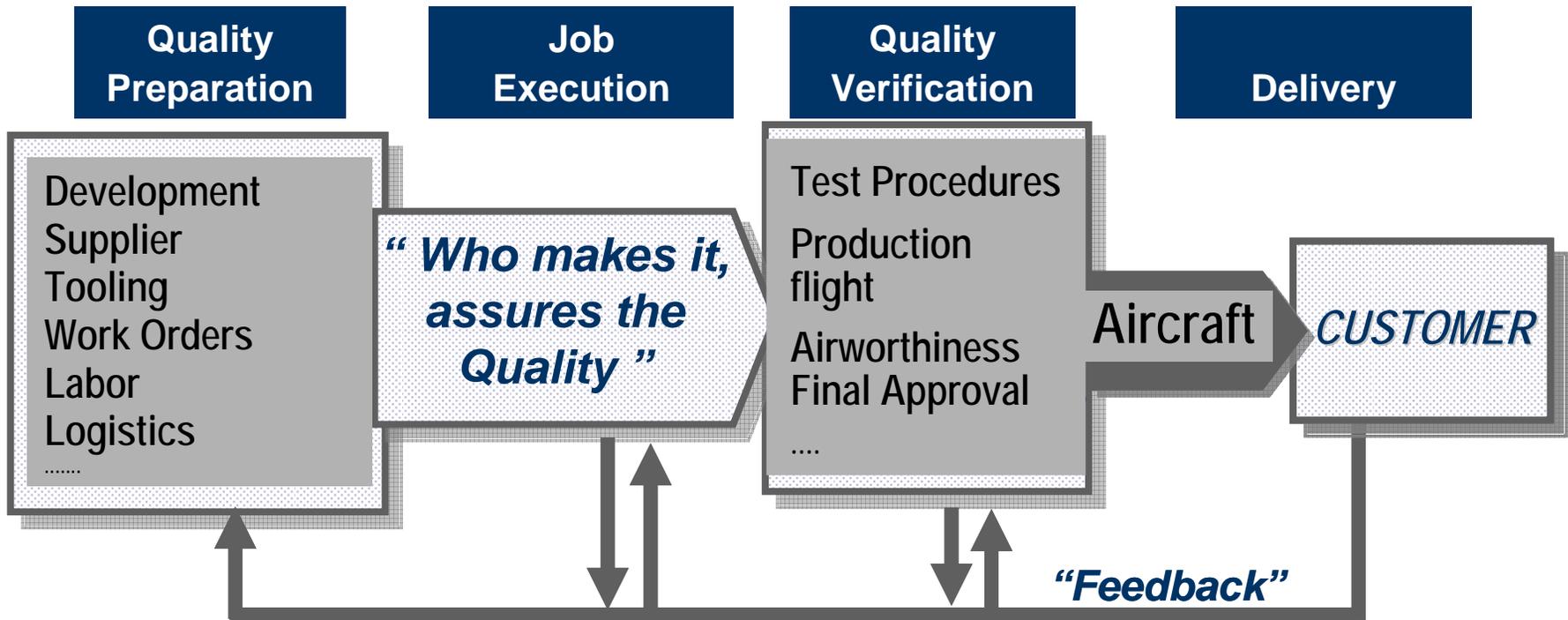
Procedures



EMBRAER NORMATIVE SYSTEM

- Worldwide access
- WEB (Intranet & Internet)
- Corporate applicability

QUALITY AUDIT



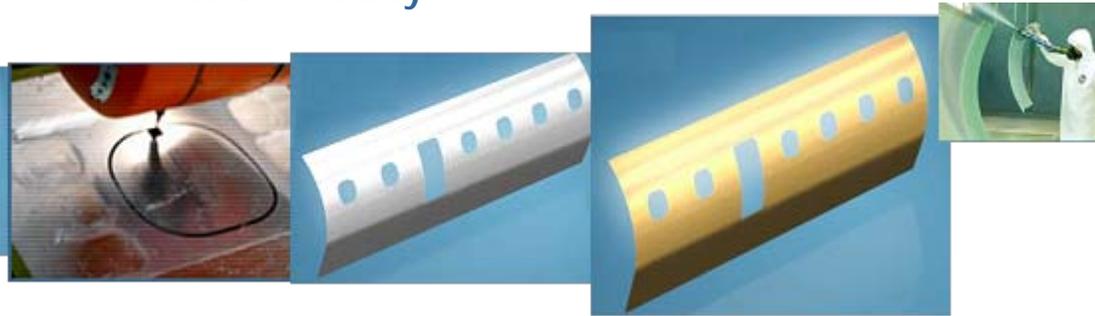
QUALITY PROCESS

QUALITY SYSTEM

Stringer/ Frames



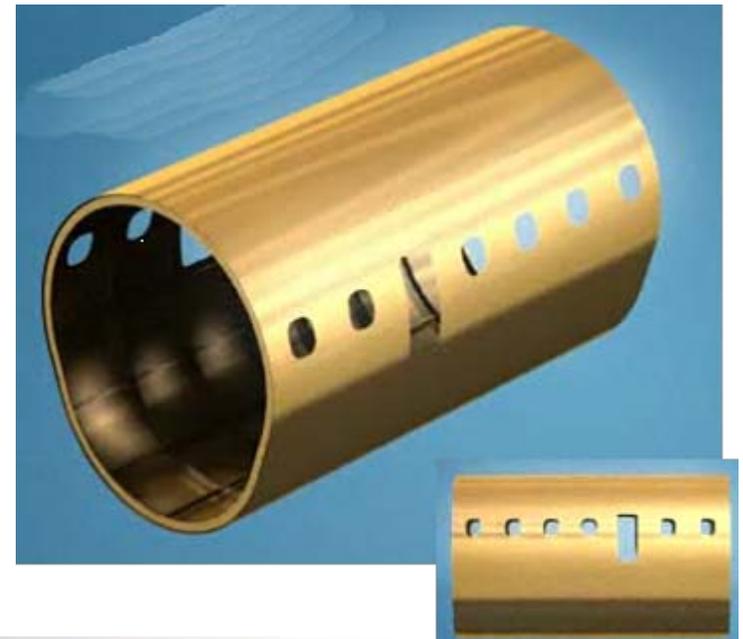
Skin Assembly



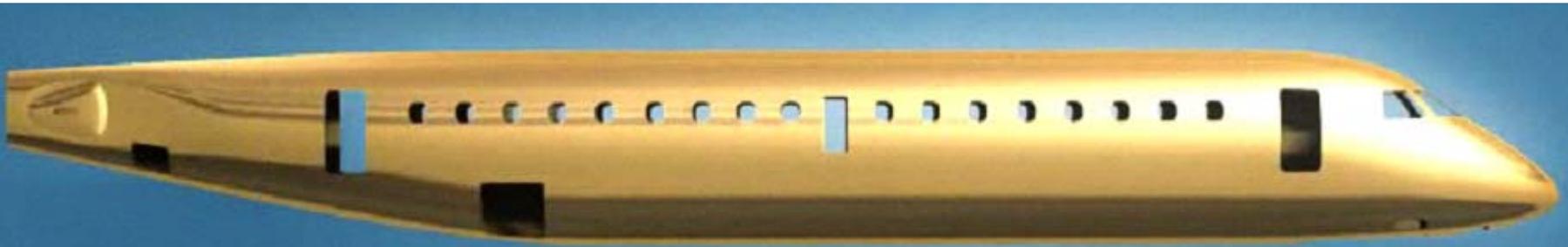
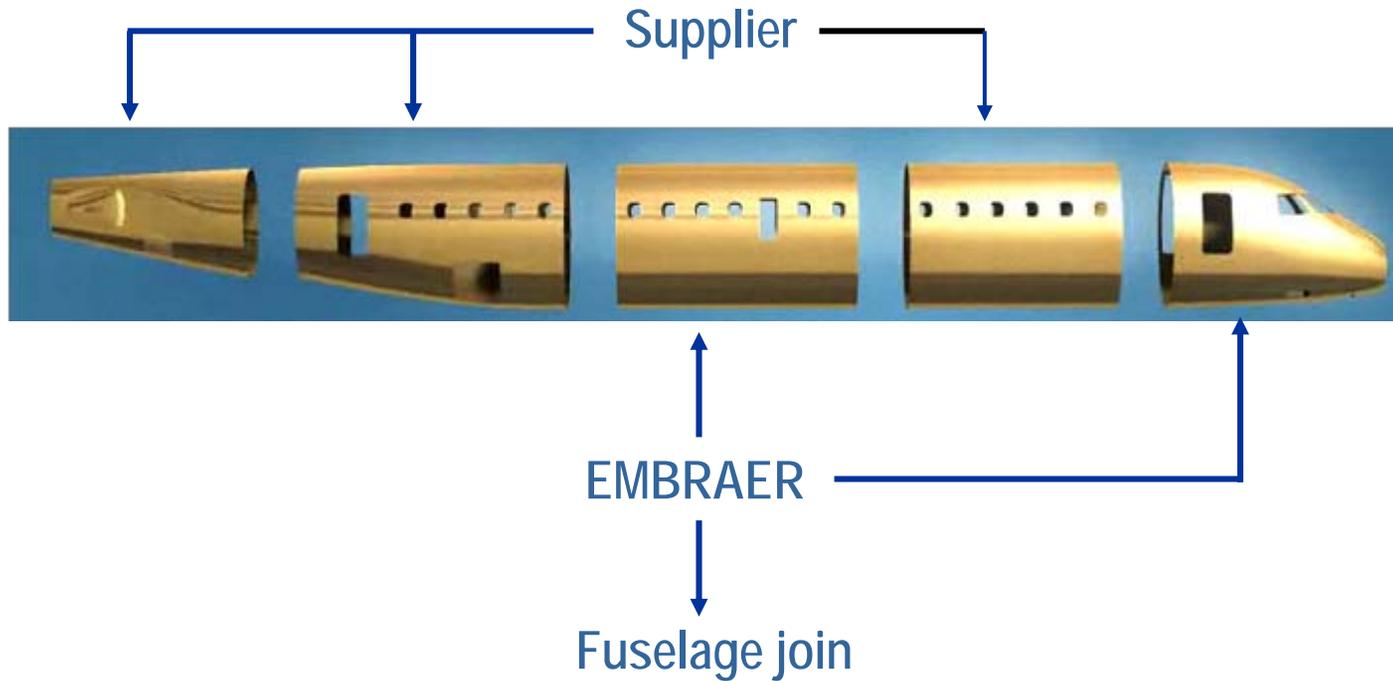
Barrel Assembly



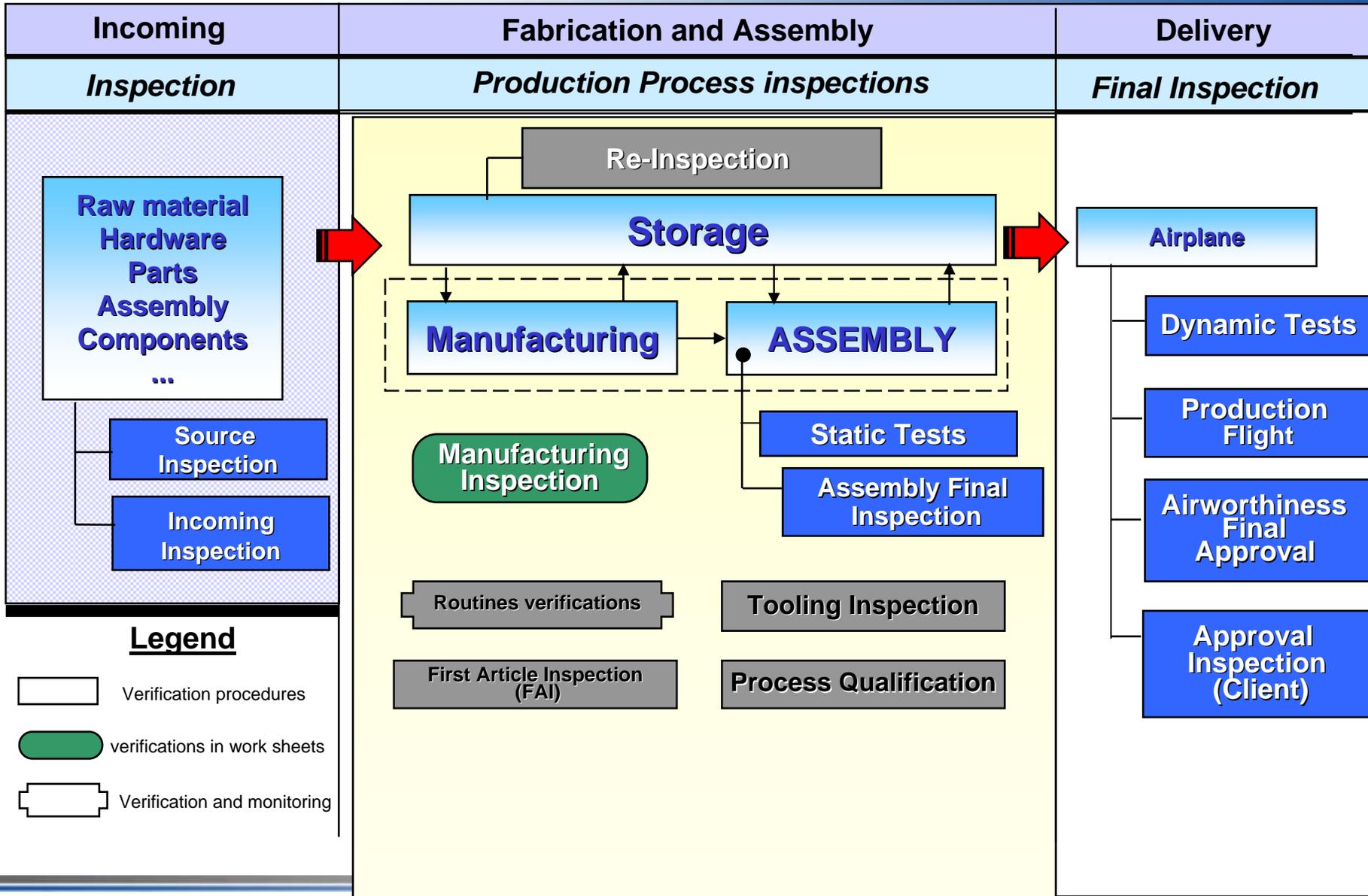
Fuselage Section



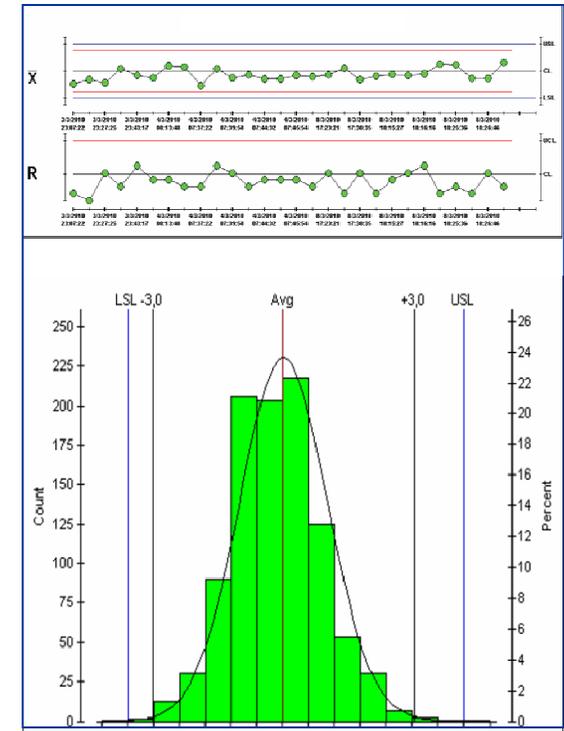
EMBRAER – Fuselage Structural Assembly - II

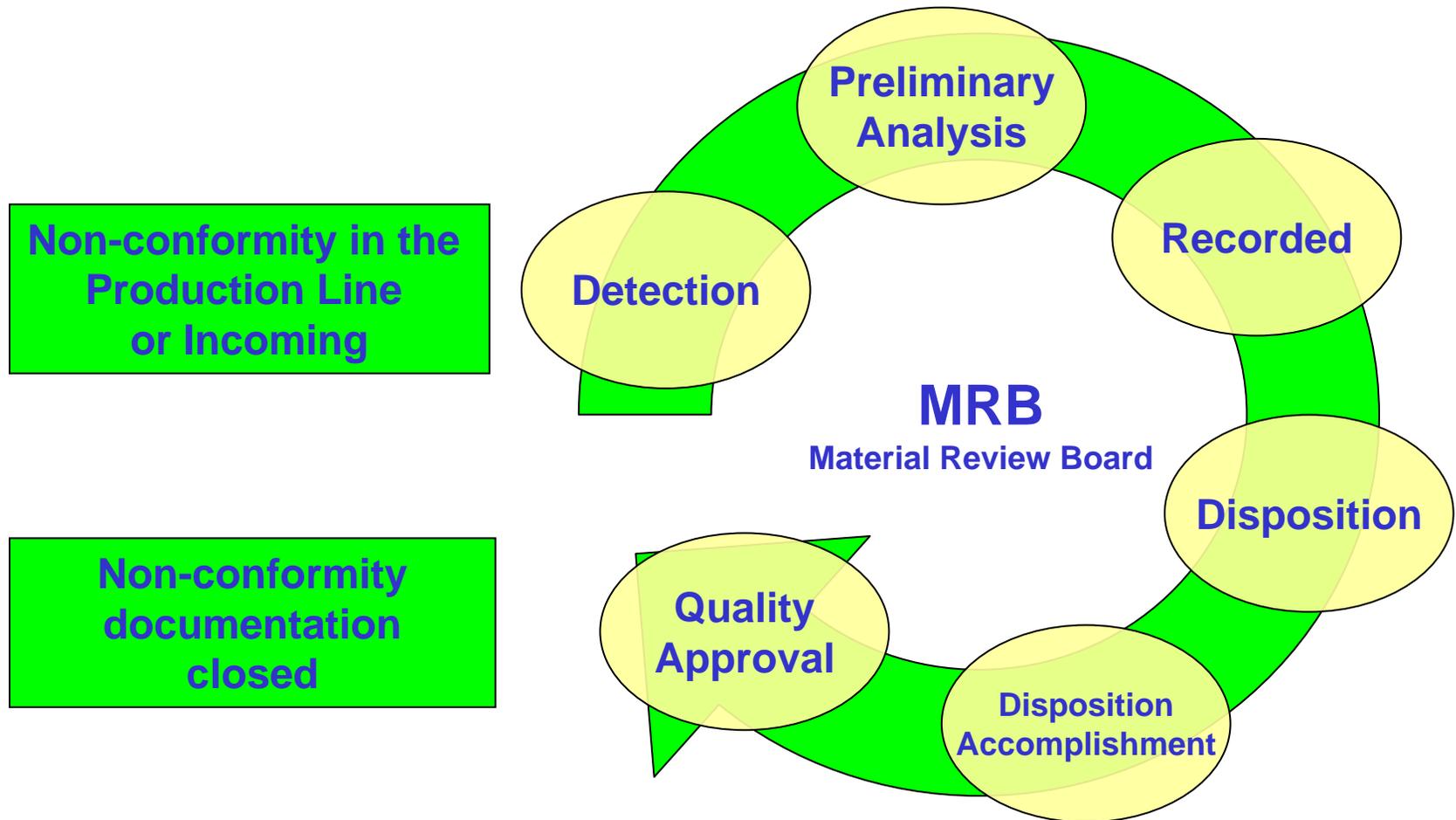


Inspection and Tests



- Statistic Process Control System rules
 - R&R analysis prior to SPC implementation
 - Process repetition rate / sampling size defined by internal procedures
 - Capability indexes rules (Cp/Cpk)
 - Reaction plan



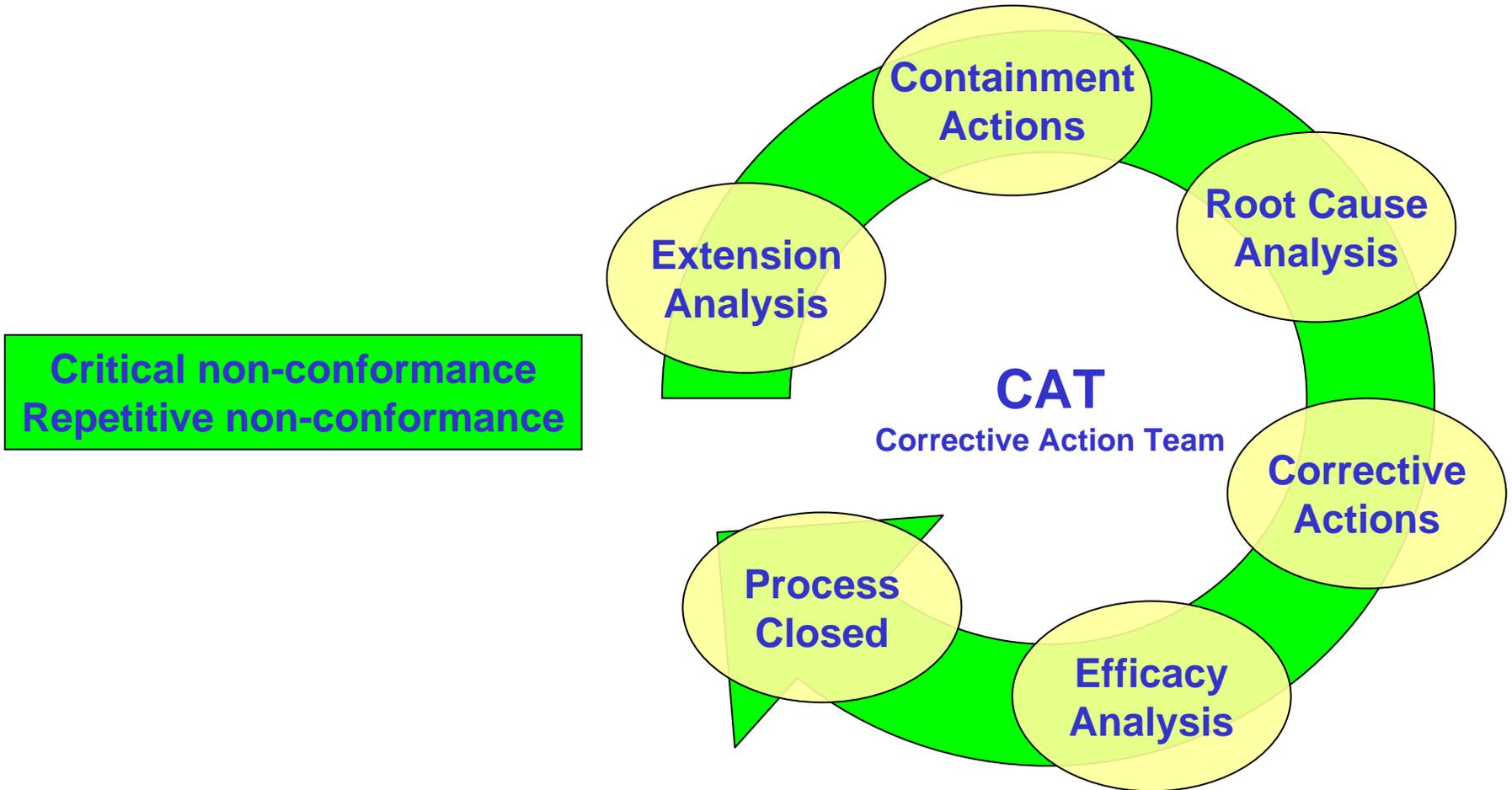


Quality System - Documentation



Party Req.	ANAC RBAC 21	FAA FAR 21	EMBRAER ENS - EMBRAER NORMATIVE SYSTEM
Responsibility of Product Certificate holder	<p>(...)</p> <p>To keep inspections and test records for, at least, 2 years in the product certificate holder archives.</p>	<p>(...)</p> <p>a) To keep the Quality System in conformity with the data and procedures approved for the production certificate,</p> <p>b) Parts and/or kits done by a third party conforms to the approved design and is in a condition for safe operation.</p>	<p>Book of Production Inspections (LIF): Set of documents related to a specific aircraft archived for its entire service life.</p>
Record keeping Requirements	<p>(...)</p> <p>(a) ... keep the following records at its factory:</p> <p style="padding-left: 40px;">(1) ... Technical data file...</p> <p style="padding-left: 40px;">(2) ... Inspection records...</p> <p style="padding-left: 40px;">(b) Retention of records.</p> <p>(a)(1) until it no longer manufactures the article.</p> <p>(a)(2) Period of at least 2 years.</p>		

Corrective Action



Thank you!

