

BCA Parts Management Processes

**Parts Standardization & Management
Committee**

Seattle, WA

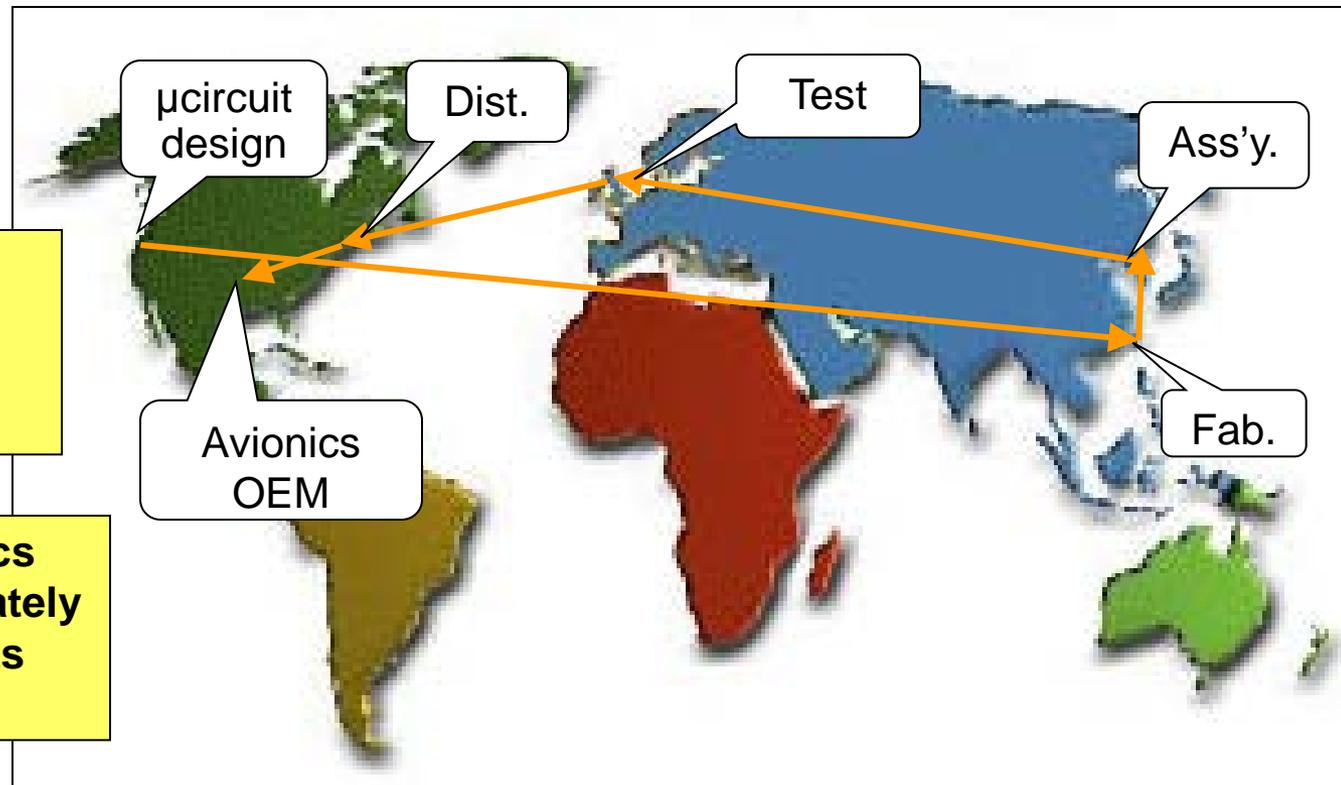
November 21, 2011

Presented by: BCA Electrical Standards

The Global Electronics Supply Chain



The global electronics supply chain is long, circuitous, and constantly changing. The number of potential combinations of links is large, and growing. The level of “control” is shrinking.

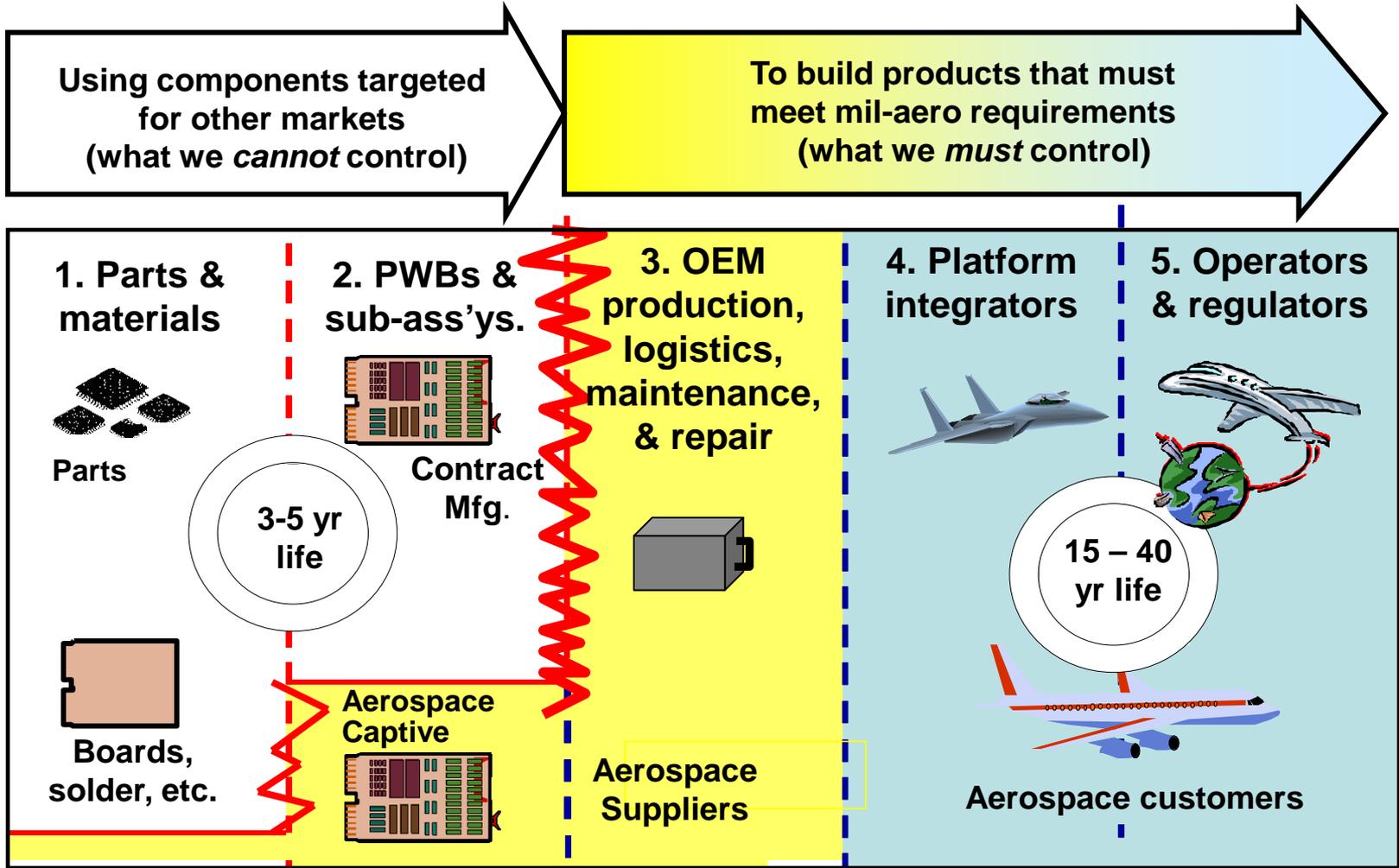


A typical BCA platform has approximately:

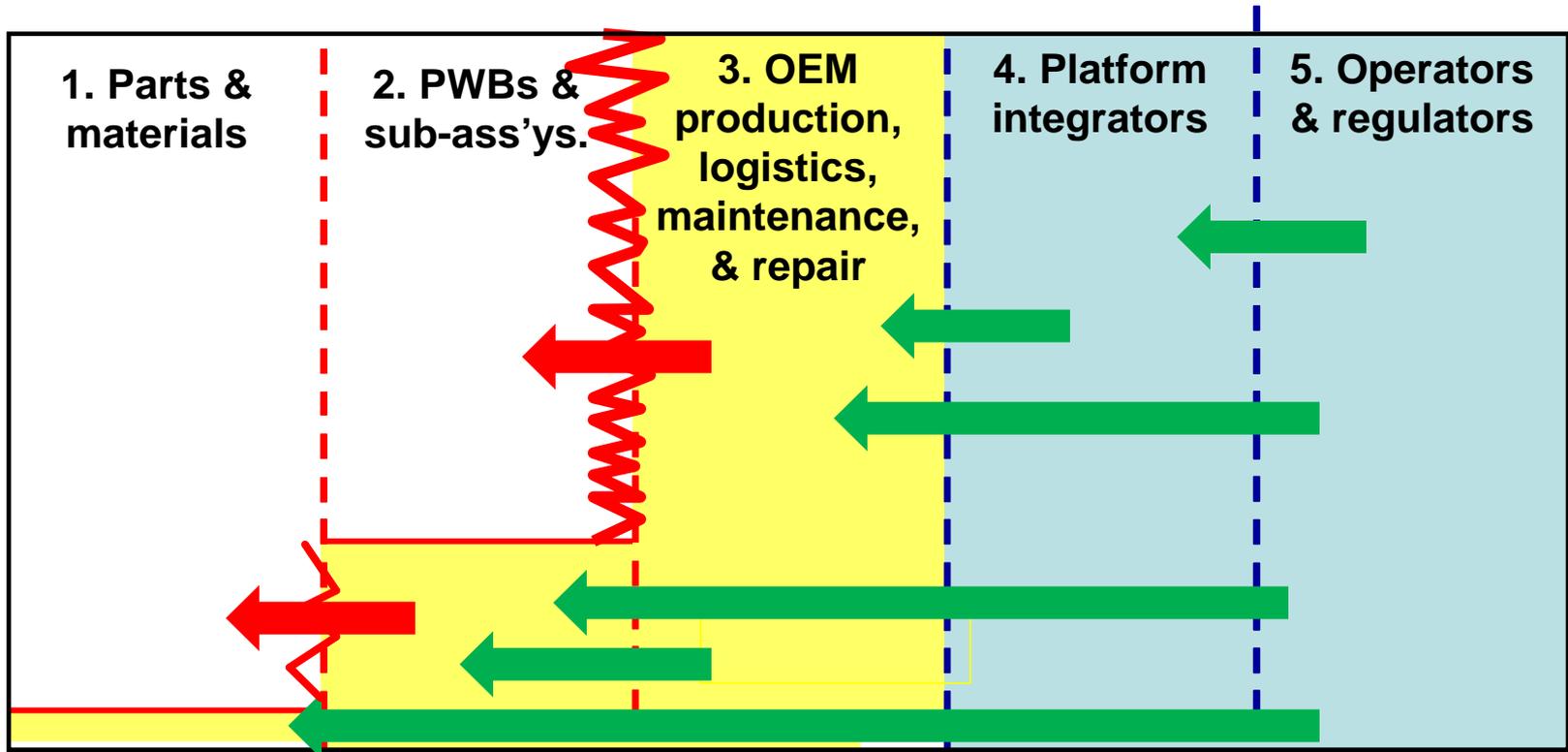
- 300,000 E/E parts
- 400 electronic boxes

A typical BCA avionics supplier has approximately 30,000 E/E parts in its inventory.

The Avionics Supply Chain



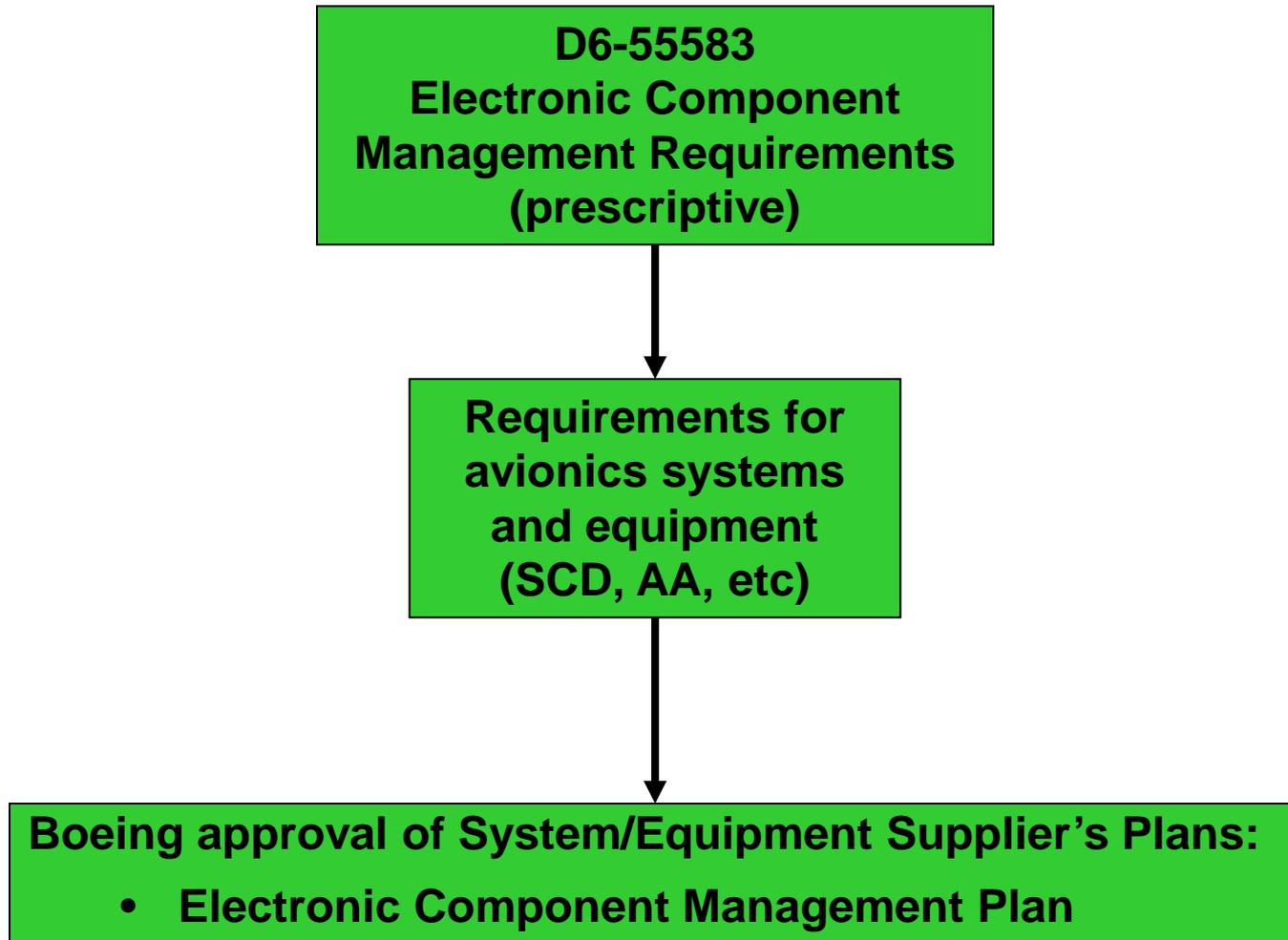
Requirements Flow-down



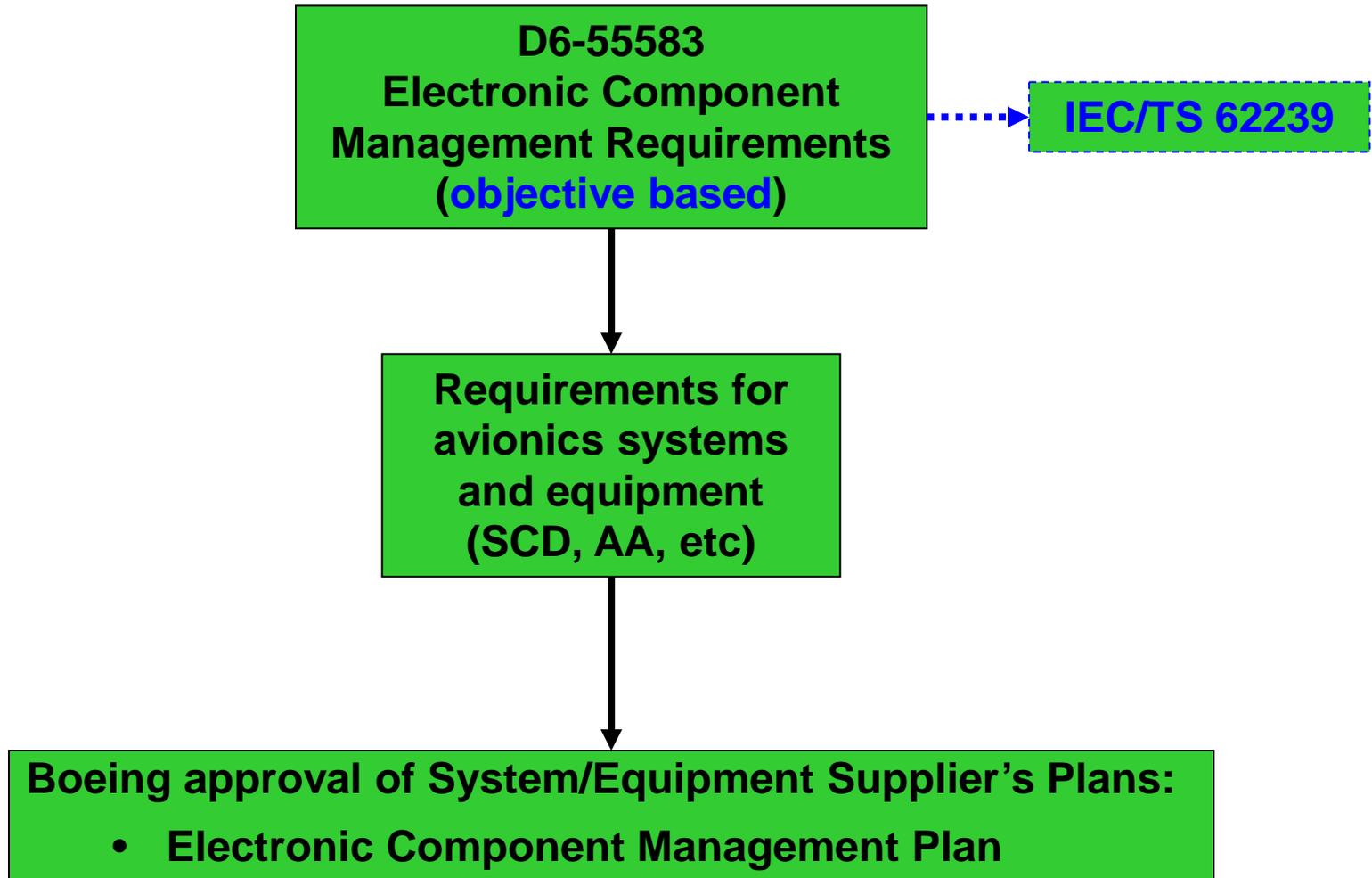

Customer satisfies
requirement for
supplier's products


Customer flows down
requirement to supplier

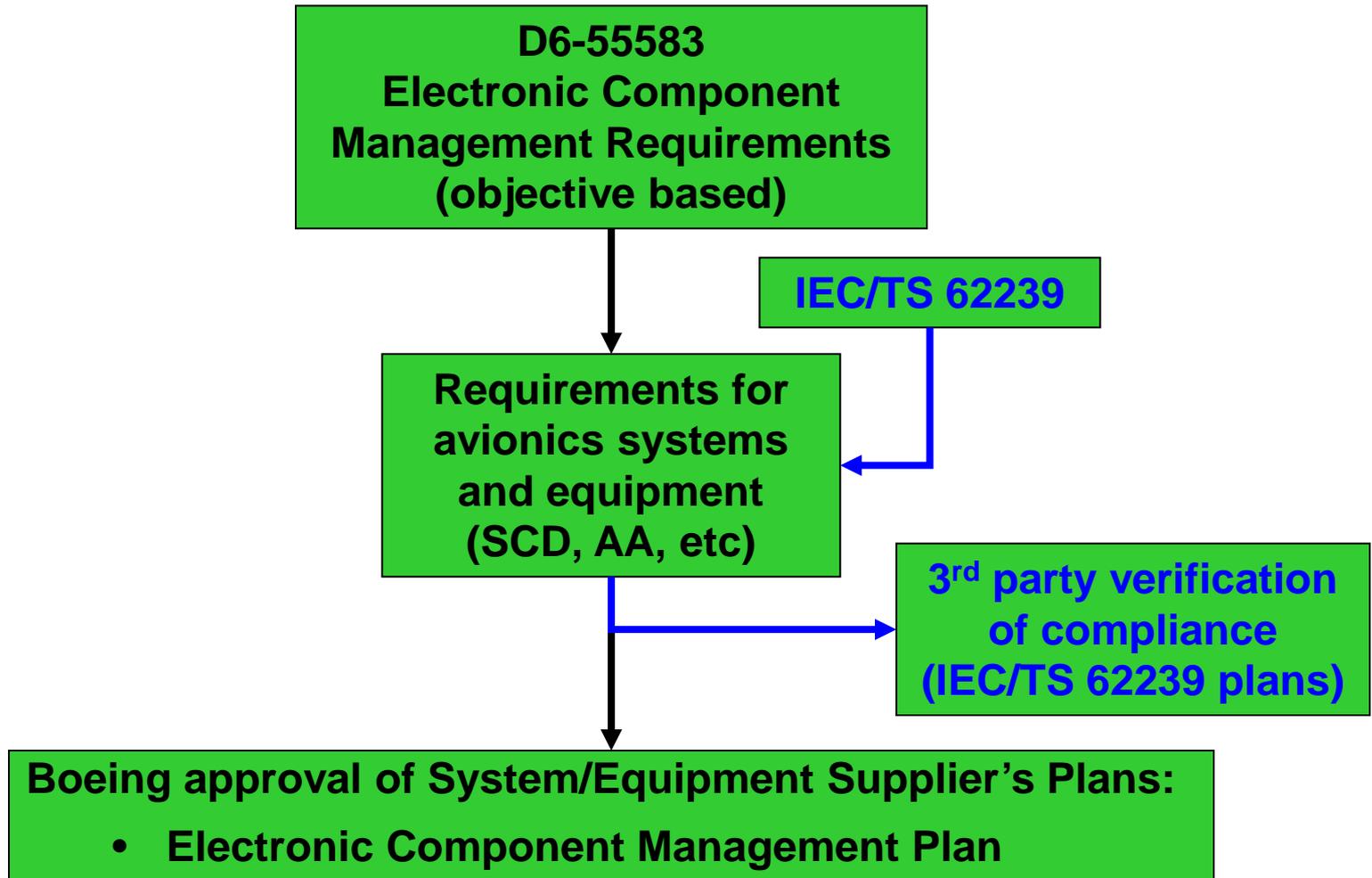
BCA Approach - History



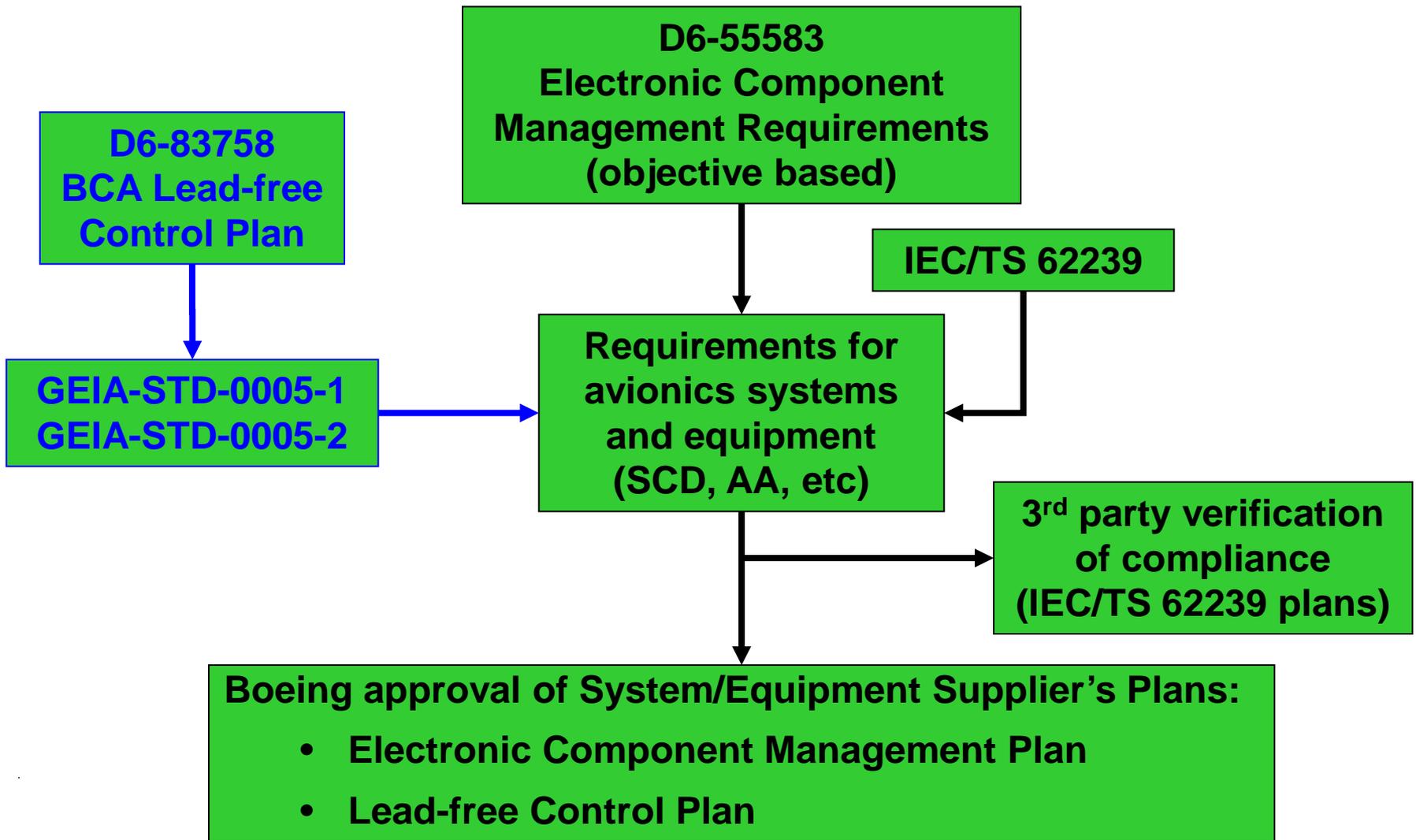
BCA Approach - History



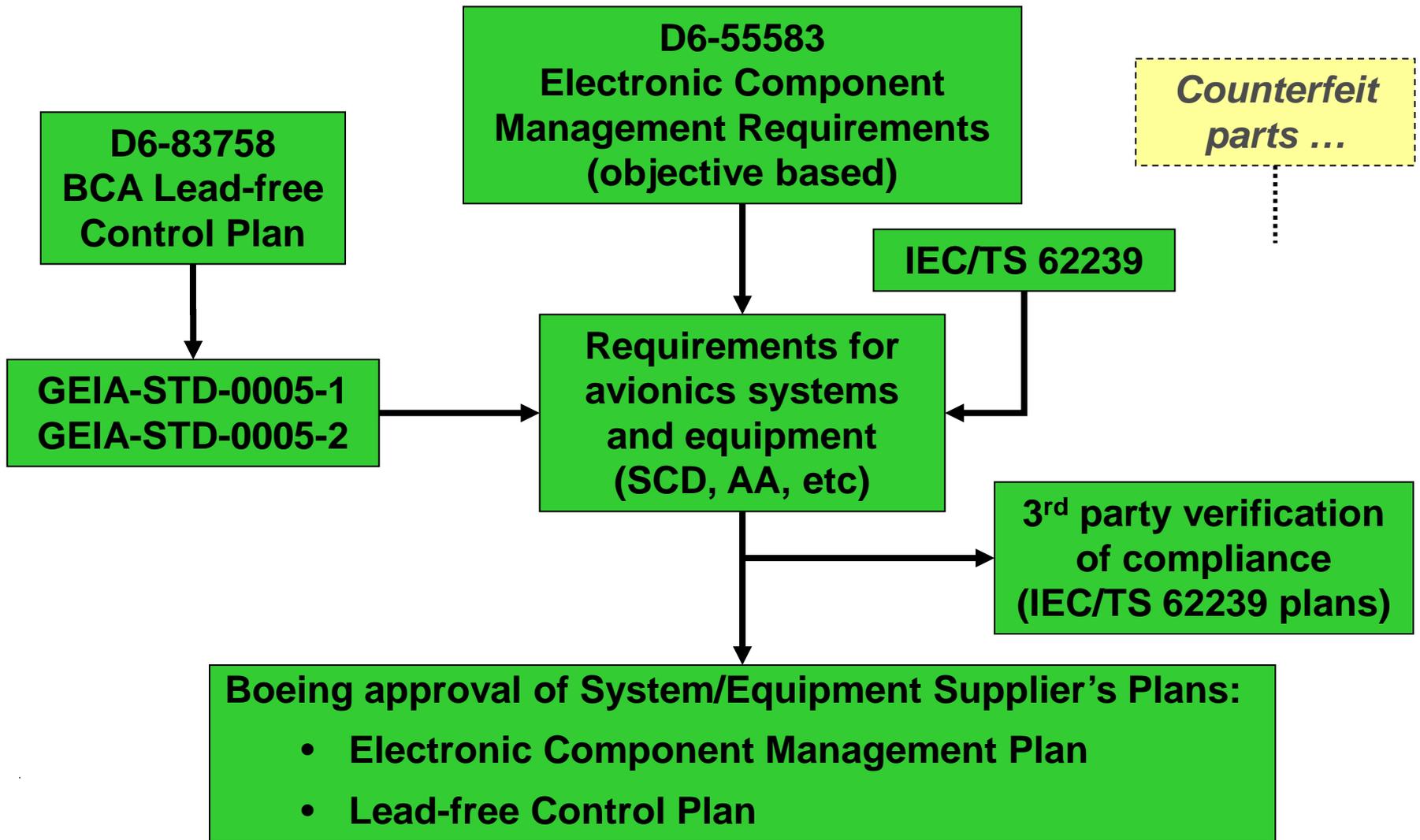
BCA Approach - History



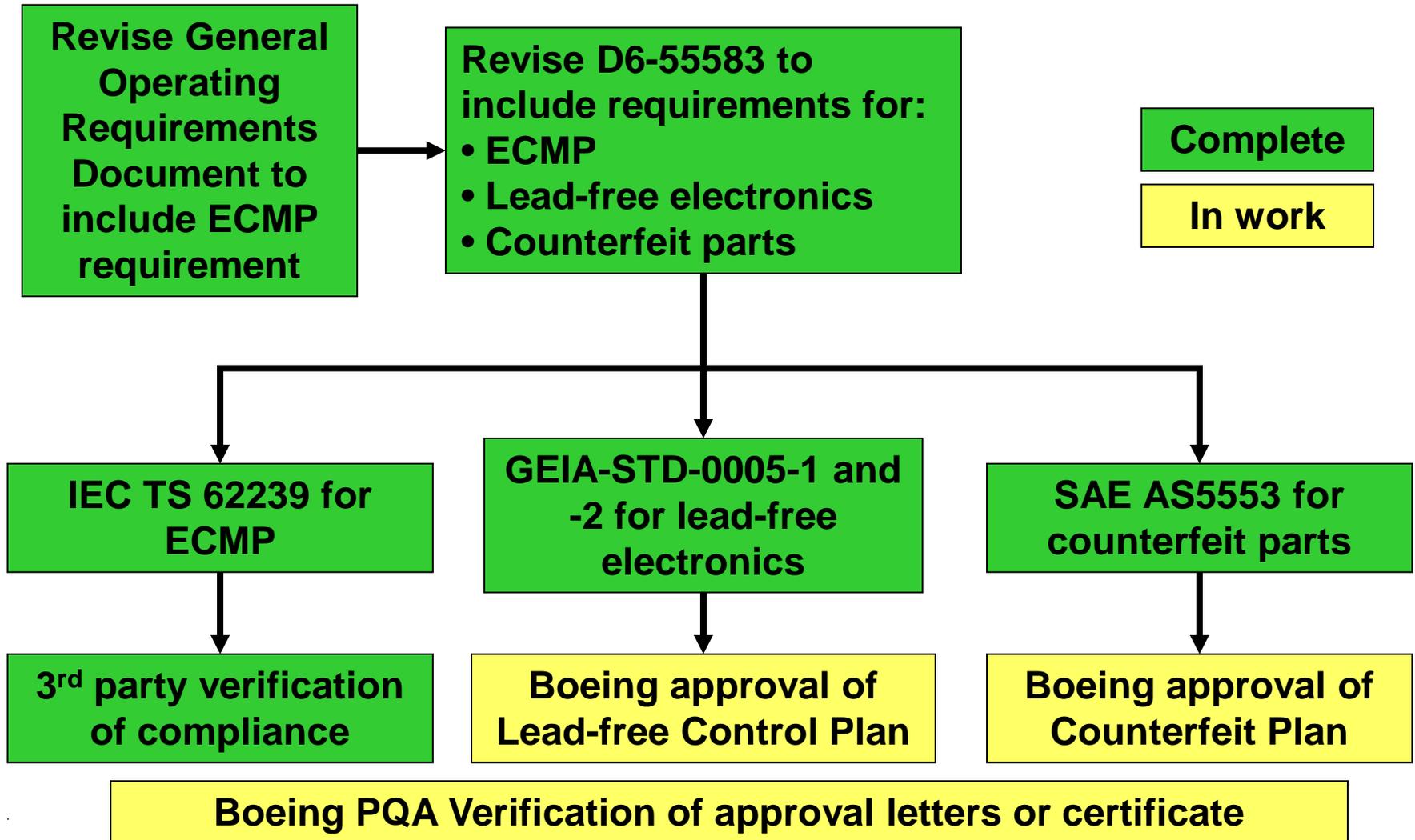
BCA Approach - History



BCA Approach - History



BCA Approach - Current



Use this approach as a template for enterprise baseline component management processes.

Industry Standard References

ECMP

- *“Process Management for Avionics – Preparation of and Electronic Components Management Plan,”* IEC/TS 62239, edition 2.0, International Electrotechnical Commission, October 2008.

Lead-free Electronics

- *“Performance Standard for Aerospace and High Performance Electronic Systems Containing Lead-free Solder,”* ANSI/GEIA-STD-0005-1, TechAmerica, June 2006.

Counterfeit Parts

- *“Counterfeit Electronic Parts Avoidance, Detection, Mitigation, and Disposition”* SAE AS5553, SAE Aerospace, April 2009.

Industry Participation

ECMP

- International Electrotechnical Commission Technical Committee 107 (IEC TC 107), Process Management for Avionics
- http://www.iec.ch/dyn/www/f?p=103:7:0::::FSP_ORG_ID:1304

Lead-free Electronics

- TechAmerica Avionics Process Management Committee
- Technical Advisory Group for TC 107
- <http://www.geia.org/Avionics-Process-Management-Committee>

Counterfeit Parts

- SAE Committee G-19
- <http://standards.sae.org/as5553/>

Verification

- IECQ
- <http://www.iecq.org/>

Questions?