



GLOBAL PRODUCTION AND DESIGN

The (new) Reality

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Global Production—The New(?) Reality

Product	Year of EIS	Major International Suppliers/Partners
Airbus A300	1974	France, Germany, Italy, U.K.
McDonnell Douglas MD-80	1980	US, Canada
Boeing 767	1982	US, Italy, Japan, Australia
CFMI /CFM56 (Engines)	1982	US, France, Italy



Global Production—What is Changing

What is changing is the complexity of our global partnerships

Design complexity & level of integration

Design delegation to supplier

Utilization of supplier's quality system

Multiple final assembly lines

Global suppliers at all tiers

Global Production—What is Unchanged

Two fundamental truths are unchanged:

- **The design/production approval holder is ultimately responsible for *all* design, production, and continued airworthiness.**

This will always be true, regardless of the place where that responsibility is discharged.

What is changing is *how* the holder fulfills his responsibility

- **The State of Design/Manufacture still has the responsibility to approve designs, oversee production, and ensure continued airworthiness, regardless of where it happens.**

Like the DAH/PAH, this responsibility is independent of where the associated activities occur.

What is evolving is the manner in which the SOD/SOM performs **this function.**

Global Production—What is New

What is changing for the authority is not “What,” but “How.”

The ultimate goal is to ensure the capability of the OEM’s design/quality system to oversee global design/production

Requires a systemic approach

Risk management/SMS

Utilize local expertise through BASAs & special arrangements.

Maximize use of delegation systems

Monitor results to identify risk areas and adjust oversight systems to match.

Global Production—Closing Remarks

- **Business requirement**
- **Adopted for many years**
- **No observed safety degradation**
- **Increased complexity is a challenge**
- **Need of effective agreements (BASA)**
- **Intensive use of ODA, CDO, CDPO concept**
- **Aviation has never been safer than today**