

# **Standards for Approval of 14 CFR Part 25.1351 (a)(1)**

Systems and Equipment DER

Breakout Session

November 04, 2003

Seattle Aircraft Certification Office (SACO)

# **Introduction**

The SACO has determined that there is a need to establish standards for the review and approval of Part 25 Airplane Electrical Load Analysis FAR 25.1351 (a)(1)

## **14 CFR Part 25.1351(a)(1):**

Electrical System capacity. The required generating capacity, and number and kinds of power sources must-

- 1) Be determined by an electrical load analysis

# **Electrical Load Analysis Requirements**

The Electrical Load Analysis must show Power Sources have adequate capacity during normal, abnormal, and emergency operation for all phases of flight

# **DER Procedures**

- 1) DERs involved in the approval of 25.1351 (a)(1) must have Electrical Power Systems background and be familiar with the airplane's Electrical power systems architecture including Power Generation, Control, Distribution, Conversion, Protection, and Energy Storage Devices
- 2) DERs Authorized for Area A Function 5 are the only ones may do finding of compliance with FAR 25.1351 (a) (1)