

**JAA/FAA/TCA
International MRB Policy Board**

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IMRBPB 013
JAA 96-007

Title: Analysis of Configuration Warnings and other Crew Monitoring systems.

Submitter: UK CAA

Issue: Guidance in MSG-3 for analysis of Crew Monitoring Systems.

Problem:

- Question 1 of MSG-3 asks if the failure of the function is evident to the crew.
- Configuration Warning Systems are mechanisms designed to monitor the crew's actions and detect their failure to notice wrongly set flaps, gear, throttles etc.
- Analysis of systems of this nature can generate a circular argument.
- Inconsistency of hidden and evident analyses already exist in MRBR's.
- New generation aircraft systems will have additional crew monitoring devices.

Recommendation: Crew Monitoring Systems be recognised as such and that specific guidance be given to direct the analysis toward question 3.

In the absence of a CMR task to check CWS or other safety related crew monitoring devices, consideration be made to recommend Route 8 functional or operational checks.

IMRBPB position:

The IMRBPB is of the opinion that if any certification credit is claimed for a system (e.g. crew alert), then this system will need itself to be subjected to certification assessment including SSA, CMR, MMEL, MRB, Flight Manual.

Important Note: The IMRBPB positions are not policy. Positions become policy only when the policy is issued formally by the appropriate National Aviation Authority (JAA, FAA or TCA).