

Viking Air Limited

TYPE CERTIFICATE HOLDER RESPONSIBILITY

CONTINUING AIRWORTHINESS

DELEGATES CONFERENCE OTTAWA 14-NOV-2018

Presented by Sue-M Matthews – CAW Manager



CAR 521 Division VIII

Type Certificate Holder

Continuing Airworthiness

Responsibility

David Preshaw
V.P. Engineering



Our PEOPLE



521.352 - Technical Capability:

- Senior DAO Members (CACC) with the contribution of all engineering members.
- Maintenance Type Board (MTB)
 Aircraft Maintenance Engineers (AME)
- Senior Pilots
- PhDs, NDT Level III, as well as Multiple Labs
- Other Subject Matter Experts (SMEs)



Our TYPE CERTIFICATES











TCH - CONTINUING AIRWORTHINESS RESPONSIBILITY







Our PROCESS

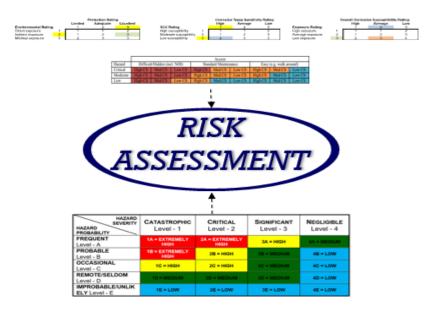




TCH - CONTINUING AIRWORTHINESS RESPONSIBILITY







TYPICAL RESULTS

- Aging Product
- Maintenance
- Possible Human Factors concerns

MITIGATING ACTIONS

We consider the Safety Precedence Sequence:

- Correct the hazard by design change
- Control with barriers
- 3. Provide warning devices
- 4. Incorporate procedures and training
- 5. Accept remaining residual hazards

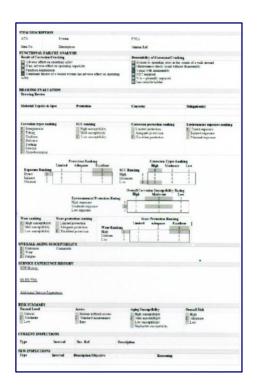


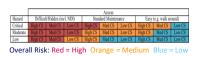
EXAMPLES



EXAMPLE – AGING PRODUCT

- > DHC-2 SDRs provided indications of aging product.
- > The inconsistencies within this series of SDRs required a comprehensive process.









EXAMPLE – INCIDENT INVESTIGATION

CL-415 MLG collapse.

Conducted by the Bureau enquêtes accidents defense - air (BEAD-air) - Found no root cause.

The BEAD found multiple contributing factors.

At the scene of the occurrence:

- Excessive taxiing speed while turning and the pilot's perception of the urgency for the mission.
- The non-conforming slope at the taxiway/runway junction (point of turn).

At the maintenance facility:

- The BEAD made a number of findings not listed here.
- A translation error that reversed the instructions of the alignment for the main landing gear folding strut.

OEM Instructions:

- Alignment instructions were correct.
- Considered difficult for translation.



CHALLENGES

 Operators feedback about the success of their maintenance program is important.
 The SDR bank (AC 521-009) helps.

Global change requirements
 Example: such as hardware like MS21042 nuts.



Thank you