Aviation Medicine Seminar
Bucharest, Romania.
11\textsuperscript{th} to 15\textsuperscript{th} November 2013
Note 3.— In cases where the applicant does not fully meet the medical requirements and in complicated and unusual cases, the evaluation may have to be deferred and the case submitted to the medical assessor of the Licensing Authority for final evaluation. In such cases due regard must be given to the privileges granted by the licence applied for or held by the applicant for the Medical Assessment, and the conditions under which the licence holder is going to exercise those privileges in carrying out assigned duties.

Note 4.— Attention is called to the administrative clause in 1.2.4.9 dealing with accredited medical conclusion.

Note 5.— Guidance material to assist Licensing Authorities and medical examiners is published separately in the Manual of Civil Aviation Medicine (Doc 8984).
Aeromedical Decision Making

The Application of Para 1.2.4.9
Introduction:

ICAO Annexes

Terminology & Expectations
19 Annexes to the Chicago Convention

Annex 1 Personnel Licensing
Annex 2 Rules of the Air
Annex 3 Meteorological Service for International Air Navigation
Annex 4 Aeronautical Charts
Annex 5 Units of Measurement to be Used in Air and Ground Operations
Annex 6 Operation of Aircraft
Annex 7 Aircraft Nationality and Registration Marks
Annex 8 Airworthiness of Aircraft
Annex 9 Facilitation
Annex 10 Aeronautical Telecommunications
Annex 11 Air Traffic Services
Annex 12 Search and Rescue
Annex 13 Aircraft Accident and Incident Investigation
Annex 14 Aerodromes
Annex 15 Aeronautical Information Services
Annex 16 Environmental Protection
Annex 17 Security: Safeguarding International Civil Aviation Against Acts of Unlawful Interference
Annex 18 The Safe Transport of Dangerous Goods by Air
Annex 19: Safety Management Systems
ICAO: Terminology and Expectations

**Terminology:**
Eg. **Standard** vs **Recommendation** vs **Note**

**Expectations:**
ICAO = Minimum Standard (Lowest)

Country Standard **MUST** be Higher

*By Implication = Looks Better if Something Happens*
ICAO Annex 1  Minimum Standards

These are the minimum that ALL contracting states must comply with

Harmonization of Standards
Wording of the Standards:

By Default → Unfit

Eg. Applicant shall be assessed as **unfit** UNLESS he is a human being.

*Interpret as*

Applicant shall be assessed as **fit** if he is a human being

**Ground the pilot**
ANNEX 1: 6 Chapters:

- **Chapter 1**: Definitions and General Rules Concerning Licences
- **Chapter 2**: Licences and Ratings for Pilots
- **Chapter 3**: Licences for Flight Crew Members other than Pilots
- **Chapter 4**: Licences and Ratings for Personnel other than Flight Crew Members
- **Chapter 5**: Specifications for Personnel Licences
- **Chapter 6**: Medical Provisions for Licensing
Unfamiliarity with ICAO Annexes --- in this case Annex 1

Implements Chapter 6 --- to the letter!

May Not Realize

Key Issues Pertaining to Medical Requirements are Contained in Every Chapter!!
Annex 1

Must be read as a complete document

Key Components are in Chapter 1
In Addition To:

Guidance Material:

Manual of Civil Aviation Medicine
Doc 8984

Advised Reading
Concept of acceptable risk
Risk Mitigation

Medical Condition

Treatment

Complications / Side Effects of Treatment

Manage Complications / Side Effects

Other Mitigation Measures: Multicrew Cockpit

Medical and/or Operational Restrictions (Limitations)
ICAO Annex 1
Chapter 1:

1.2.4 Medical Fitness

Para 1.2.4.9 \textit{“Flexibility”} or \textit{“Waiver”} Clause

Allows Personnel \underline{Not Meeting} Standards to be Considered
If the Medical Standards prescribed in *Chapter 6* for a particular licence are not met, the appropriate Medical Assessment shall not be issued or renewed unless the following conditions are fulfilled:
a) accredited medical conclusion indicates that in special circumstances the applicant’s failure to meet any requirement, whether numerical or otherwise, is such that exercise of the privileges of the licence applied for is not likely to jeopardize flight safety;

b) relevant ability, skill and experience of the applicant and operational conditions have been given due consideration; and

c) the licence is endorsed with any special limitation or limitations when the safe performance of the licence holder’s duties is dependant on compliance with such limitation or limitations.
Application of Limitations in the Aeromedical Decision Paradigm

• When would you apply a limitation?
• Why would you apply a limitation?
• What is the nature of the limitation?: *Operational? *Medical?
• What operational limitations are available to you?:
  • When and why would you apply these restrictions?
DEFINITIONS

Medical Examiner: A physician with training in Aviation Medicine and practical knowledge and experience of the aviation environment, who is designated by the Licensing Authority to conduct medical examinations of fitness of applicants for licences or ratings for which medical requirements are prescribed.

Medical Examiners must be trained and shall also receive refresher training in Aviation Medicine; Must demonstrate competency before designation. Must have practical knowledge and experience of the conditions in which licence holders carry out their duties.
Examples of restrictions to a Class I Assessment

• Unrestricted Class I: Single and Multicrew operations
• Restricted Class I: Multicrew only – No other restrictions
• Restricted Class I: Multicrew – No instructional duties
• Restricted Class I: Multicrew – As/With Co-Pilot Qualified on type
Thank you for your kind attention!

Jarnail_singh@caas.gov.sg