



Valores

Inovação

Orientação
para
resultados

Sustentabilidade

Segurança

Foco do
cliente

Operator's Round Table

FRMS Seminar ICAO/IATA/IFALPA

Lima - Peru

Fatigue Risk Implementation

- FRM as a SMS risk assesement process
- Use of already implemented Safety Tools
 - Confidential Report System – AQD
 - FOQA
- Corporate Ownership
 - Operations runs rostering planning
 - Human Factors recommends and promotes
 - Safety & Quality check implementation/oversight
 - FRM integrates Corporate Safety Policies

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Fatigue Management Process



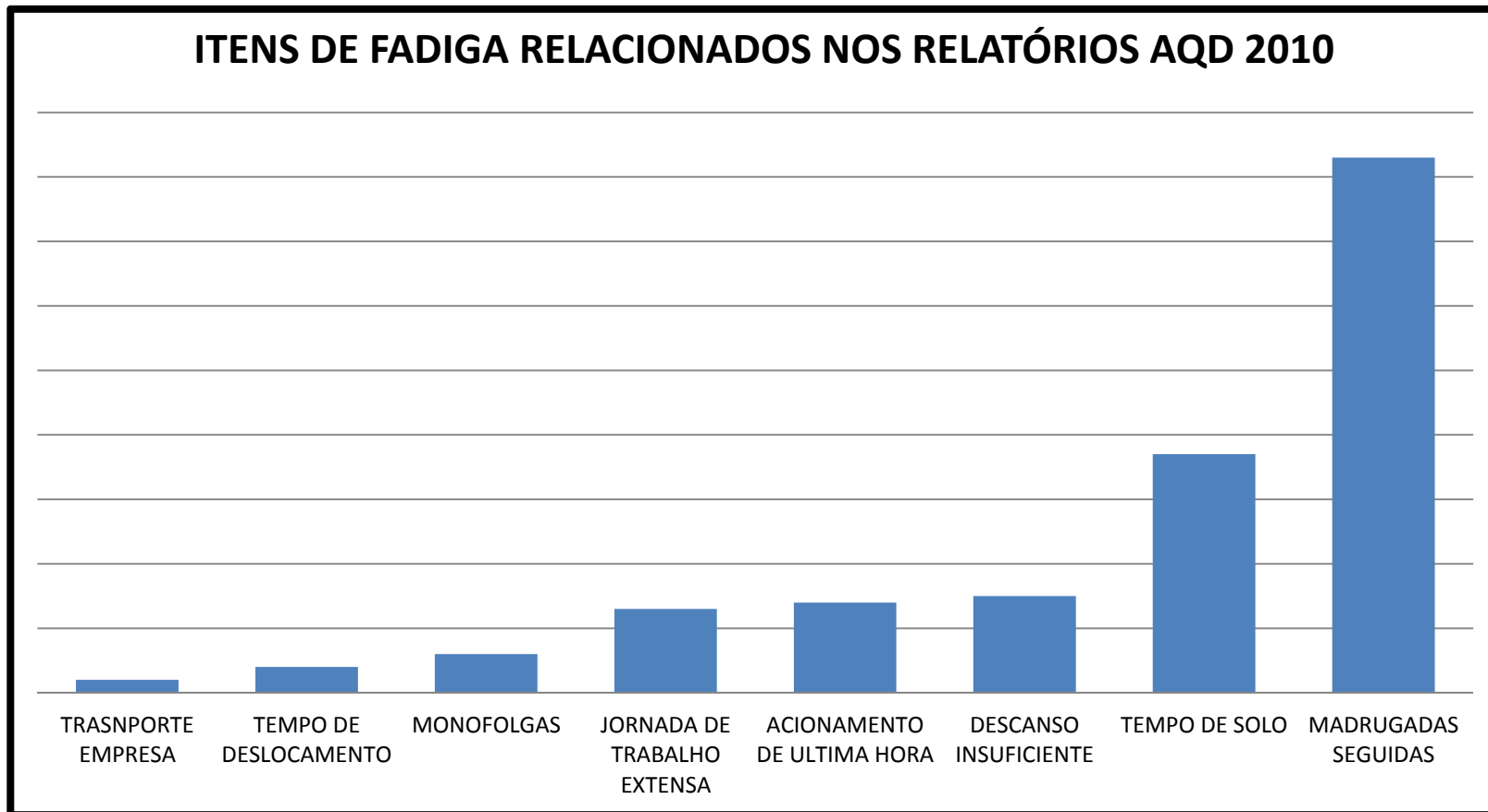
Adapted from ICAO, 2008

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AQD data came out with the following information considering Pilots Rostering related reports:



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AQD analysis

- Recommendations from Human Factors;
- Rostering planning worked to reduce critical pairings;
- On April 2011 we found the average 77,5% of effectiveness level on the planned schedules.

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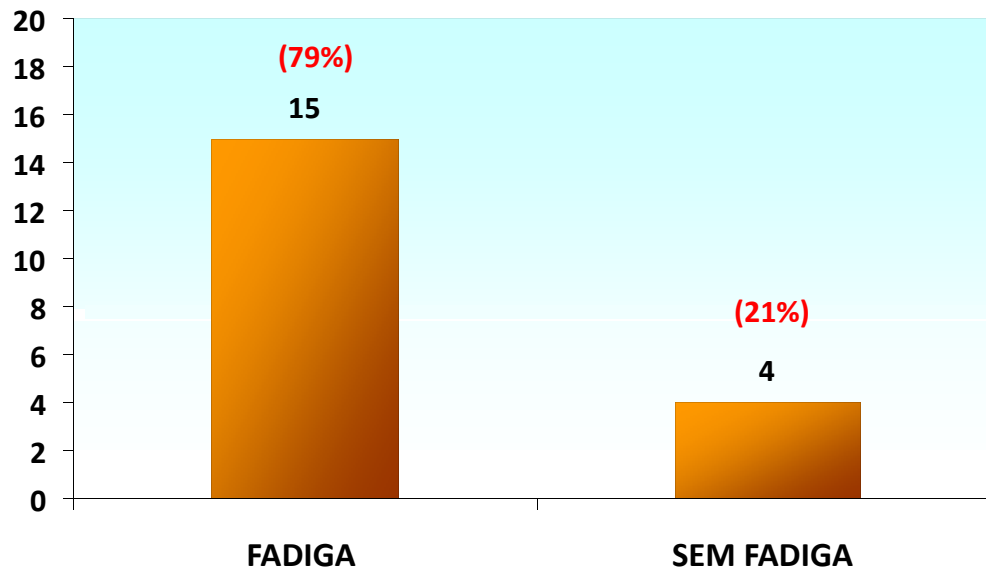
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FOQA analysis

- We may consider in a preliminary approach on FDM class III events is the presence of Fatigue as a contributing factor:

Events and Fatigue detection



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NetLine Operation Mask:

The screenshot displays three overlapping windows from the NetLine software interface, used for managing flight operations for B738, B73G, and B73H aircraft.

- Top Window: NetLine/Crew Pairing: B738, B73G, B73H / 01Mar12-31Mar12 [SAO] / Cockpit&Cabin [DAVVD/LISADMIN 1126558]**
 - Menu: CMS, View, Basic Data, Crew Data, Pairings, Details, Checks, Printouts, Tools, Help
 - Buttons: Import, Fix Changes, Refresh, Search Leg, Filter, Set Filter, Rearrange, New Sby Pairing, New Abs Pairing, New Sim Pairing, Refresh Filter, B73H
- Middle Window: NetLine/Crew Assignment: B738, B73G, B73H / 01Apr12-05Apr12 [SAO] Flight Deck [DAVVD/LISADMIN 1126558]**
 - Menu: CMS, View, Basic Data, Crew Data, Roster, Details, Checks, Printouts, Tools, Help
 - Buttons: RGRU0500, FR, AO-T1, AO-T2, AO-T3, AO-T4, FP, FANI, FADJ, RVL-CMA, ADM-QE, ADM-QEI, ADM-QF, E-AGD-CHT, E-AGD-OPR
 - Buttons: Import, Fix Changes, Search Leg, Search CM, Filter, Set Filter, Rearrange, Sort C/Ms by Rank, Resort, CP, B73H
- Bottom Window: NetLine/Crew Tracking: B738, B73G, B73H / 26Feb12-02Mar12 [SAO] Flight Deck [DAVVD/LISADMIN 1126558]**
 - Menu: CMS, View, Basic Data, Crew Data, Roster, Details, Tracking, Checks, Printouts, Tools, Help
 - Buttons: RGRU0500, AO-T1, AO-T2, AO-T3, AO-T4, CONF-LIB, D-PREP, D-SNA, DEM, DM, F-TRE, FALTA, FP, FR, INSS, LIC-PAT, N/C
 - Buttons: Import, Fix Changes, Notifications, Search Leg, Search CM, Filter, Set Filter, Rearrange C/Ms by Rank, Resort, CP, B73H

Left Panel (Crew List):

- Search: []
- CP 13 13 18
- 00000643
- CP 3 3 18
- 00000644
- CP 7 7 12
- 00000745
- FO 0 0 13
- 00000758
- CP 0 0 18
- 00000760
- CP 0 0 0
- 00000761
- CP 36 39 96 2
- 00000021
- CP 71 71 95 2
- 00000022
- CP 3 3 11 2
- 00000023
- CP 66 66 97 0
- 00000024
- CP 51 51 123 1
- 00000025
- CP 0 0 68 0
- 00000026
- CP 25 25 77 0
- 00000027
- CP 63 63 129 1

Bottom Window Tracking Data:

Timeline from 26Feb to 08Mar. Key events include:

- 26Feb: B738, SAO
- 27Feb: B738, SAO
- 28Feb: B738, SAO
- 29Feb: B738, SAO
- 01Mar: B738, SAO
- 02Mar: B738, SAO
- 03Mar: B738, SAO
- 04Mar: B738, SAO
- 05Mar: B738, SAO
- 06Mar: B738, SAO
- 07Mar: B738, SAO
- 08Mar: B738, SAO

Bottom Right: SAO UTC 19:47 28Feb12, SAO 16:47 28Feb12



Linhas aéreas inteligentes

THANK YOU