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Acknowledgement

In particular our thanks go to:

- The training organisations that participated in the review of cabin crew training programmes
- The organisations that helped in promulgating the online survey
- The Royal Navy, the Royal Air Force, Eurostar





Acknowledgement

In particular our thanks go to:

- The FAA, and Transport Canada Civil Aviation.
- > Flight Safety International Inc.,
- And last but not least to the 2,500 cabin & flight crewmembers and trainers that participated in the online survey





Objectives of the Project

To evaluate current and possible future issues, and identify potential improvements in existing fire training in order to ensure that cabin crews have the most appropriate training and procedures to match current and likely future fire threats.





Structure of the Project

- Review of current cabin crew fire training programmes
- On-line Survey
- Assessment of fire training currently carried out in non-civil aviation environments.
- Review of in-flight fire occurrences and how the threats experienced might change in the future



Structure of the Project

Identification of potential improvements to cabin crew fire training and their evaluation in the light of current regulatory material and foreign comparable regulatory material





Phase 1 – Review of Current Fire Training Programmes

8 UK and 2 European operators and training organisations were visited





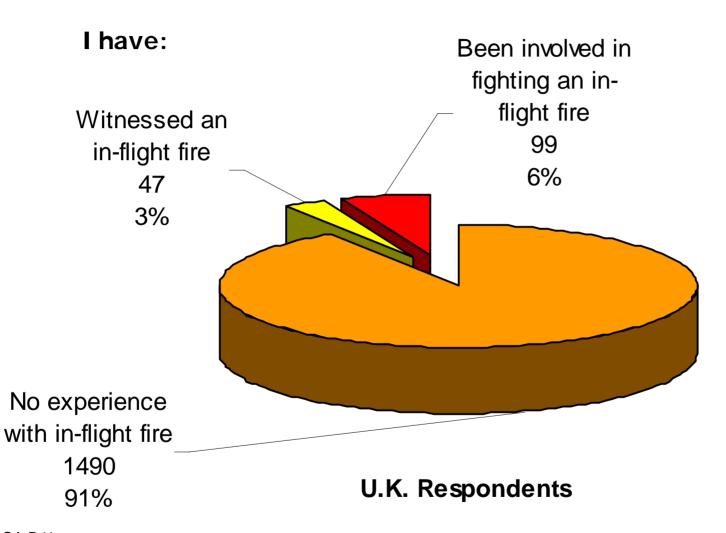
Phase 2 - On-line Survey

- Over 2,500 questionnaires were completed of which 2,164 were analysed
- Of the UK respondents approximately 9% had experienced an in-flight fire





Phase 2 - On-line Survey

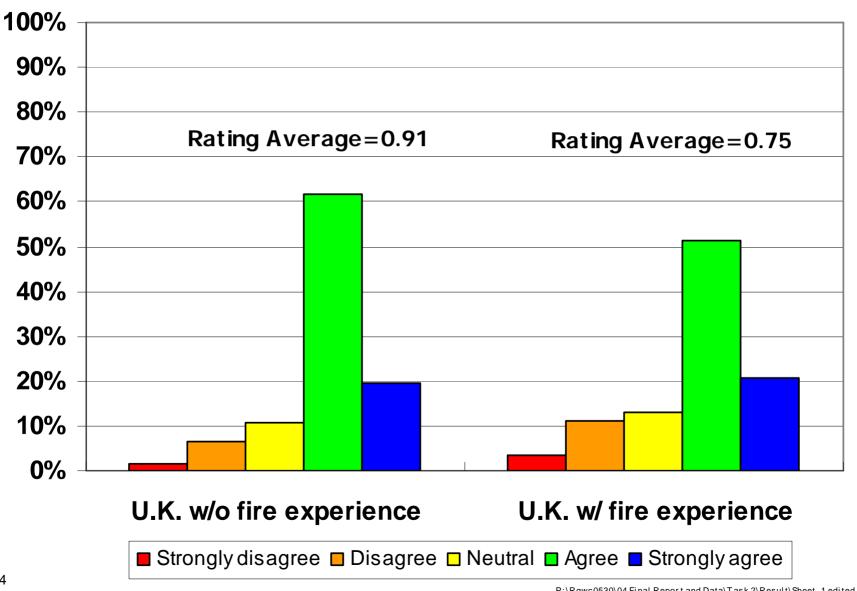


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The fire training equips crew members to extinguish any fire visible in the cabin.



Phase 3 - Fire Protection Training In Non Civil Aviation Environments

Royal Navy, Royal Air Force, and Eurostar crew fire training were observed





Phase 4 - Identification Of Cabin Fire Threats

- 316 fire-related UK Mandatory Occurrence Reports were analysed
- Recommendations relating to worldwide in-flight fire accidents over the period 1967-2006 were reviewed





Phase 4 - Identification Of Cabin Fire Threats

Future in-flight fire threats were identified by brainstorming with Airworthiness Authority Fire & Cabin Safety Specialists – supported by literature searches





Based on the information obtained during phases 1 to 4 of the study, potential improvements were derived from a process based on the EASA Regulatory Impact Assessment approach





- > Recommendations were made regarding standardisation of
 - > Fire Extinguishers used in training
 - Protective Breathing Equipment used in training
 - > Fires used in training
 - > Smoke used in training









- Recommendations were made regarding
 - Standards for fire and smoke training facilities
 - Standards for fire training instructors
 - Evaluation criteria in Practical fire & smoke training







- Recommendations were made regarding Training in
 - > Fire Prevention Measures
 - Theoretical
 - Communication/Coordination with Flight Crew
 - Theoretical & Practical
 - Communication/Coordination amongst Cabin Crew - Practical







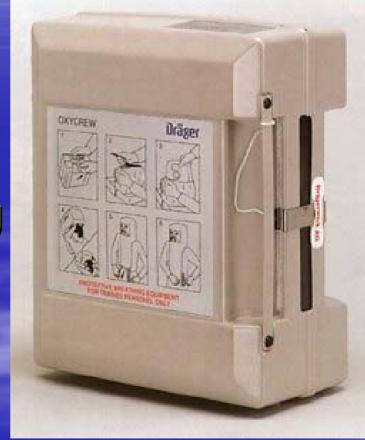
- Recommendations were made regarding Training in
 - Detecting and Locating
 Source of Smoke and Fire
 Theoretical & Practical
 - Dealing with Hidden FiresTheoretical & Practical
 - The Management of Passengers— Theoretical & Practical







- Recommendations
 were made regarding
 Practical Training in
 - Removing Firefighting Equipment from Stowage
 - Removing Protective Breathing Equipment from Packaging







- Recommendations were made to generate regulatory material addressing
 - > Fire Scenarios
 - Firefighting using protective equipment







- Recommendations were made to generate regulatory material addressing
 - Theoretical Training in Conversion & Differences Training and Recurrent Training
 - Regulation of Training Provided by 'Third-Party' Training Organisations





- Recommendations to provide guidance for
 - Training methods in performing firefighting procedures
 - Implementing integrated fire training scenarios in a cabin environment





- Recommendations to provide guidance for
 - Training methods in emphasising the required urgency of response to in-flight fires





Next steps

- > The CAA is to:
 - Publish the Training Needs
 Analysis as a CAA Paper
 - Arrange a Fire Training Instructors Workshop/Forum
 - Consider the need for regulatory or advisory changes



