

REPORT ON THE AVIATION STATISTICS WORKSHOP ON AVIATION DATA COLLECTION AND ANALYSIS

(BAHRAIN, 17-20 November 2008)

1 SUMMARY

1.1 An Aviation Statistics Workshop on civil aviation data collection and analyses was held from 17-20 November 2008 in Bahrain. It was attended by 48 participants from 9 States and two International Organizations. ICAO was represented by DEPRD Jehad Faqir, Statistical Officers Oleg Nazarov and A. Sainarayan from ICAO HQ.

1.2 The purpose of the meeting was to demonstrate how data collection and due analysis have a significant impact on improving efficiency and viability of the concerned stakeholders, notably, airlines, airports and ANS providers; to demonstrate the role of statistical analysis in interpreting accident rates and in the conduct of safety analysis using statistical data; to improve the reporting of aviation statistics for MID Region, especially from the smaller Contracting States; to sensitize the participants about the vital role information plays: i) in securing finance; and ii) to arrive at reliable safety indicators; to review how the best member States would be able to collect and disseminate civil aviation data and their experiences on this issue; and finally to introduce the participants to the on-line version of ISDB at the ICAO secure site and the commercial site, www.icaodata.com.

2 TOPICS COVERED

2.1 During the meeting opening speeches were made by Deputy of Undersecretary of CAA – Bahrain and Deputy Regional Director MID Region emphasizing the importance of data collection and its interpretation in improving the efficiency of the aviation community. There was also a very interesting round-table meeting where the emerging threats to aviation growth like the ongoing financial crisis, fuel price, shortages of manpower, were also discussed.

2.2 ICAO's presentations covered the issues detailed in the attached agenda. It covered the airlines, airports and ANS providers. The activities that go into developing an appropriate reporting system were also covered. This is essential as such an activity needs to be performed prior to reporting of ICAO statistical forms. In addition the presentations covered areas like interpreting demand, variance analysis, pricing issues, safety analysis as well as management indicators used for decision making. It was repeatedly emphasized that all of this cannot be carried out unless the stakeholders had the capability of collecting accounting and operational data in a raw format and creating a repository from which the data could be interpreted and reported to improve efficiency and safety of operations.

2.3 The Deputy RD emphasized the importance of providing accurate, reliable and timely traffic and financial data for planning and justification of the infrastructure development projects and implementation of ICAO PBN within the MID Region.

2.4 The means and best practices to be adopted in collecting raw data and interpreting them were also disseminated in the workshop through ICAO presentations and three information papers, namely 1) Information paper on the various uses that statistics could be put to in order to improve economic efficiency and the methods to be adopted to actually collect data in an organized manner; 2) Information Paper on Data Collection and Analysis of Air Navigation Service Providers; and 3) Information paper on interpreting data for decision making through the medium of variance analysis.

2.5 Once the participants were briefed on collecting raw data and interpreting them, the issue of reporting to their own management as well as to ICAO in the prescribed reporting forms were covered by means of presentations and discussions on ICAO reporting instructions and methodology.

2.5.1 The presentations also covered ECCAIRS, interpreting them and merging them with exposure data to conduct statistical safety analysis. A short demo was also given on IRCA, the ICAO secure site and the paid site, icaodata.com. All participants were given one month free access to the site after which they have the option to get paid access to the site.

2.5.2 Participants from Civil Aviation Authorities were informed that access to the ICAO secure Site is free for Contracting States and were shown how to request for access to the secure site.

3 PARTICIPATION

3.1 The number of participants was large, the level of knowledge and the participation quotient of the participants were excellent and there was representation from the States (mainly CAA, airports and ANS providers), IATA and air carriers. CAA Bahrain provided secretariat and logistical support for this Workshop. The questions raised by the participants were of a high order indicative of the level of knowledge in the region and there was a genuine interest and commitment in collecting and providing data to ICAO. Almost all of the workshop participants spoke about their experience in data collection and analysis.

3.2 Notable participants were from Saudi Arabia, Sudan, Kuwait and Bahrain. Saudi Arabia demonstrated an excellent application they have developed in house to manage the Air Traffic flows. The system has the capability to capture aircraft movement data across their FIR's and generate valuable reports which will help in identifying choke points on the ATS route system thus improving efficiency and safety of operations. Saudi Arabia and Bahrain also made short presentations on data collection and analysis of airport traffic data.

3.3 Requests were received from Saudi Arabia and Bahrain to provide training on data collection and analysis of data. ICAO advised that their formal requests to be submitted to ICAO HQ through the Regional Office of ICAO in Cairo.

4 CONCLUSION

4.1 The Workshop concluded with CAA Bahrain and participants reiterating their commitment to collect data and report the same to ICAO. All the material that was provided to the participants courtesy of the CAA Bahrain.

4.2 ICAO team expressed its gratitude and appreciation to the CAA of Bahrain for hosting this important event and for their warm hospitality extended to ICAO team and the participants of the Workshop.

MIDDLE EAST AVIATION STATISTICS WORKSHOP

(Bahrain, 17-20 November 2008)



PROGRAMME

MONDAY, 17TH NOVEMBER 2008

- 0800 – 0945** Registration of delegates at Conference Centre
- 1000 – 1100** **Opening Ceremony**
- Welcome address by and Opening remarks by Dignitaries
- 1100 – 1130** **Tea/Coffee Break**
- 1130 – 1345** **Working Session**
- Current Issues affecting the Industry and ME perspective – Short Presentation from ICAO
 - Round Table Discussion on topical industry issues and their impact on Middle Eastern airlines
- 1345 – 1445** **Lunch Break**
- 1445 – 1545** **Working Session**
- General Introduction – use of Civil Aviation Statistics in ICAO, National Administrations, airlines, airports and air navigation services (ANS) providers , presentation on Air Transport Bureau
 - Characteristics of Air Travel Demand and factors impacting demand for air travel
- 1545 - 1600** **Tea/Coffee Break**
- 1600 – 1715** **Working Session**
- Characteristics of Air Travel Demand and factors impacting demand for air travel
 - Q&A session
 - Transition from static data collection to analyses of data and dissemination of the best practices (airlines)
- 1715** **End of Day One**

TUESDAY, 18TH NOVEMBER 2008

- 0930 – 1030** **Working Session**
- Airline Competition and Pricing Practices
 - Transition from static data collection to analyses of data and dissemination of the best practices (airlines)
- 1030 - 1045** **Tea/Coffee Break**

- 1045 - 1245 Working Session**
- Overview of Regulation and Competition on Airline Economics
 - How airline accounting and statistics will improve competitiveness and efficiency of airlines.
- 1245 - 1345 Lunch Break**
- 1345 - 1545 Working Session**
- Detailed look into each Airline Reporting Form.
 - Q&A On Air Carrier Reporting Forms
- 1545 - 1600 Tea/Coffee Break**
- 1600 – 1700 Working Session**
- Detailed look into each Airline Reporting Form
 - Q&A On Air Carrier Reporting Forms
- 1700 End of Day Two**

WEDNESDAY, 19TH NOVEMBER 2008

- 0930 - 1030 Working Session**
- Presentation and discussions of ICAO papers on “Best practices involved in airline data collection and analysis” along with discussion from participants
 - Presentation and discussions of ICAO papers on “Best practices involved in Variance Analysis to improve airline profitability” along with discussion from participants
 - Open-floor discussion on data collection, forecasting and reporting experiences of Middle Eastern airlines and DGCA's
- 1030 - 1045 Tea/Coffee Break**
- 1045 – 1245 Working Session**
- Role of European Co-ordination Centre for Aviation Incident Reporting System (ECCAIRS) in safety analysis. How ECCAIRS and traffic exposure data provides us accident rates for analysis
 - Analysis of accident rates, trend and probability analysis to mitigate risks
 - Discussions on Safety Analysis experiences of Stakeholders
- 1245 - 1345 Lunch Break**

1345 - 1545 Working Session

- Review of ICAO Statistical Programme (airports and ANS providers)
- Transition from static data collection to analyses of data and dissemination of the best practices (airports and ANS providers)
- Detailed look into airport, civil aircraft on register and ANS providers forms

1545 - 1600 Tea/Coffee Break

1600 – 1700 Working Session

- Detailed look into airport, civil aircraft on register and ANS providers forms (Cont'd)
- Q&A On Airport, ANS and Civil Aircraft on Register Forms

1700 End of Day Three

THURSDAY, 20TH NOVEMBER 2008

0930 - 1030 Working Session

- Presentation and discussions of ICAO papers on “Best practices involved in ANS data collection and analysis” along with discussion from participants
- Open-floor discussion on data collection, forecasting and reporting experiences of Middle Eastern Airports, ANS providers and DGCA

1030 - 1045 Tea/Coffee Break

1045 – 1245 Working Session

- Open-floor discussion on data collection, forecasting and reporting experiences of Middle Eastern Airports, ANS providers and DGCA (Cont'd)
- IRCA Presentation, Demonstration of ICAO secure site, ICAODATA, and other sites
- Filling of questionnaires
- Presentation of Certificates
- Closing Remarks
- Vote of Thanks