



**INTERNATIONAL CIVIL AVIATION ORGANIZATION
NORTH AMERICAN, CENTRAL AMERICAN AND CARIBBEAN OFFICE**

**NAM/CAR AIR NAVIGATION IMPLEMENTATION WORKING GROUP
(ANI/WG)**

**AIR TRAFFIC SERVICES INTER-FACILITY DATA COMMUNICATION
IMPLEMENTATION TASK FORCE
(AIDC TF)**

**FIRST FILED FLIGHT PLAN (FPL) MONITORING AD HOC GROUP
MEETING
(FPL/AD/MON/1)**

FINAL REPORT

MEXICO CITY, MEXICO, 24 TO 26 FEBRUARY 2015

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HISTORICAL

ii.1 Place and Date of the Meeting

The NAM/CAR Air Navigation Implementation Working Group (ANI/WG) Air Traffic Services Inter-Facility Data Communication Implementation Task Force (AIDC TF) First Filed Flight Plan (FPL) Monitoring Ad Hoc Group Meeting (FPL/AD/MON/1) was held at the ICAO NACC Regional Office in Mexico City, Mexico, from 24 to 26 February 2015.

ii.2 Opening Ceremony

Mr Jorge Fernández, Deputy Regional Director of the North American, Central American and Caribbean (NACC) Office of the International Civil Aviation Organization (ICAO) congratulated the active work and results made by the FPL Ad hoc Group, highlighted the achievements and tasks conducted by the Group and welcomed everyone, wishing a very successful meeting. Mr. Fernando Casso, FPL Ad hoc Group Rapporteur, welcomed the participants and officially opened the meeting.

ii.3 Officers of the Meeting

The FPL/AD/MON/1 Meeting was chaired by Mr. Fernando Casso and the meeting was conducted in plenary. Mr. Julio Siu, Regional Officer, Communications Navigation and Surveillance served as Secretary of the Meeting, assisted by Mr. Victor Hernandez, Regional Officer, Air Traffic Management and Search and Rescue, all from the ICAO NACC Regional Office.

ii.4 Working Languages

The working language of the Meeting was English and working papers, information papers and the report of the meeting were available to participants in said language; some papers were available also in Spanish.

ii.5 Schedule and Working Arrangements

It was agreed that the working hours for the sessions of the meeting would be from 9:00 to 16:30 hours daily with adequate breaks.

ii.6 Agenda

- Agenda Item 1 Review and approval of the meeting agenda, working method and schedule**
- Agenda Item 2 Regional references on solution/mitigation of FPL problems**
- Agenda Item 3 Review of the measures adopted during December 2014 – January 2015 period for mitigation of errors (recommended actions)**
- Agenda Item 4 FPL Guideline and Contact List presentation**
- Agenda Item 5 Review of airlines' FPL processing capabilities**
- Agenda Item 6 Review of data collection process and form: improvements**
- Agenda Item 7 Planning of the second phase of data collection**
- Agenda Item 8 Discussion of Alternate Aerodrome issues**
- Agenda Item 9 Data analysis procedure discussions**
- Agenda Item 10 Review and update the FPL Ad hoc Group Action plan.**
- Agenda Item 11 Other business**

ii.7 Attendance

The Meeting was attended by 7 States/Territories from the CAR Region, and 2 International Organizations, totalling 21 delegates as indicated in the list of participants.

ii.8 Draft Conclusions and Decisions

The Meeting recorded its activities as Draft Conclusions and Decisions as follows:

DRAFT

CONCLUSIONS: Activities requiring endorsement by the ANI/WG AIDC TF.

DECISIONS: Internal activities of the Filed Flight Plan Monitoring Ad hoc Group

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ii.9 List of Working and Information Papers

Refer to the Meeting web page:
<http://www.icao.int/NACC/Pages/meetings-2015-fpladmon.aspx>

WORKING PAPERS

Number	Agenda Item	Title	Date	Prepared and Presented by
WP/01	1	Review and Approval of the Meeting Agenda, Working Method and Schedule	21/01/15	Secretariat
WP/02	2	Review and Update to AIDC Regional Plan — Presented by the	07/02/15	AIDC Task Force Rapporteur
WP/03	3.1	Review of the AIDC Implementation Procedure	07/02/15	Presented by the AIDC Task Force Rapporteur
WP/04	3.2	Harmonization of AIDC Interface Control Document	19/02/15	Secretariat
WP/05	3.3	North American (NAM) Common Coordination Interface Control Document (ICD) Version 'E' Update	19/02/15	United States
WP/06	3.4	United States AIDC Interface and Implementation Update	19/02/15	United States
WP/07	3.1	AIDC Performance Indicator and Measurement	19/02/15	Secretariat
WP/08	3.6	AIDC Implementation Central American	27/02/15	COCESNA
WP/09	4	Review and update of the AIDC Task Force Work Programme	19/02/15	AIDC TF Rapporteur
WP/10	5	AIDC Go-Team Initiative of the ICAO Regional Technical Cooperation project For The Caribbean Region – <i>“Implementation of the Performance Based Air Navigation Systems for the CAR Region”</i> (RLA/09/801)	19/02/15	Secretariat

WORKING PAPERS

Number	Agenda Item	Title	Date	Prepared and Presented by
WP/11	3	Go-Team Results for Dominican Republic	27/02/15	Dominican Republic

INFORMATION PAPERS

Number	Agenda Item	Title	Date	Prepared and Presented by
IP/01	----	List of Working and Information Papers	23/02/15	Secretariat

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Agenda Item 1 Review and approval of the meeting agenda, working method and schedule

1.1 Under WP/01, the Meeting was invited to approve the provisional agenda, working method and schedule of the meeting, referring to IP/01 with the list of associated documentation. The approved meeting agenda is presented in the historical section of this report.

Agenda Item 2 Regional references on Solution/Mitigation of FPL problems

2.1 Under WP/02, the Secretariat recalled the concept of Flight Plan and that the scope of Air Traffic Service (ATS) unit safety reviews under the operational and technical issues should be to ensure that automation systems generate and display flight plan, control and coordination data in a timely, accurate and easily recognizable manner, and in accordance with human factors principles. Similarly ICAO highlighted Flight Plan filing problems reports such as missing information, erroneous data in the flight plan and duplication of flight plans, affecting not only manual but automated ATC systems.

2.2 The Secretariat provided an overview of the good experiences and active work of all the NAM/CAR States/Air Navigation Services Providers (ANSPs) related to the New ICAO Model Flight Plan (FPL) Form, resulting in its successful implementation. This implementation represented a continuous work of training, coordination, testing, system upgrades, procedure revision, contingency procedure making, planning, publications and a whole team work within the States/ANSPs at the regional level. This effort included:

a) Publication of:

- Regulations, procedures, transition actions, trials and other informative publications (posters, videos, folders, etc.)
- Operational procedures in Aeronautical Information Publication (AIP) flight plans for the programme coordination and updating of related changes (altitude, Estimated Time of Departure (ETD), route, speed, etc.)
- Updated ATS Letters of Agreements (LOAs) with adjacent ATS units

b) Actions for:

- Implementing contingency procedures to mitigate identified hazards
- Implementing a switch-over plan
- Establishing a Collaborative Decision Making (CDM) process with air operators, ANSPs, pilots, dispatchers, general aviation and Air traffic controllerS (ATCOs)
- Implementing training programmes for ATCOs, pilots, AIS personnel and dispatchers
- Implementing measures to solve problems caused by errors, missing and duplication of flight plans
- Implementing a safety assessment (monitoring) programme before and post implementation
- support for Aeronautical Message Handling System (AMHS)/converter implementation and ATM system automation upgrades
- ICAO Headquarters (HQ) Coordination Centre (ICAO Electronic Bulletin Ref. *EB 2012/57*, dated 30 October 2012) and regional NACC supporting staff were established
- post monitoring calls were established until December 2012

2.3 The Meeting also recalled the temporary solution of the converters to comply with the new FPL Form. Under **Appendix A** to this report an update of the status of these converters is provided.

2.4 The Meeting recalled Third North American, Central American and Caribbean Working Group Meeting (NACC/WG/3) Conclusion 3/3 – *Actions to avoid errors, missing and duplication of flight plans* and the agreement by the First NAM/CAR Air Navigation Implementation Working Group Meeting (ANI/WG/01) for the Air Traffic Services Inter-Facility Data Communication (AIDC) Implementation Task Force to prioritize and implement the necessary action with the ICAO Secretariat and users to follow-up on mitigation/solution measures to the FPL errors/ problem and notify the results to the ANI/WG as soon as possible.

2.5 The FPL Ad hoc Group has taken the actions indicated by NACC/WG Conclusion 3/3 in the Document suggested actions for mitigating/solving the missing and duplicated FPLs.

2.6 The Meeting identified that the FPL errors are affecting not only the efficiency of the operations and they are also a safety concern for the service as detected on the number of Large Height Deviations (LHDs) and some aerodrome incidents. In this regard, the Meeting agreed to activate a Group for evaluation and reporting the safety impact due to the FPL errors resulting from the data collected in the first phase of data collection. The group was integrated by Dominican Republic (Julio Mejia), United States (Dan Eaves), COCESNA (Estela Rojas) and IATA (Marco Vidal) was assigned with this new task. Terms of reference were developed for this Group as shown in **Appendix B** to this report. In this regard, the Meeting adopted the following Decision:

DECISION

FPL/AD/MON/1/1 ANALYSIS GROUP FOR SAFETY ASSESSMENT FOR FPL ERRORS

That, in order to asses and report the safety impact due to FPL errors resulting from the data collected in the first phase of data collection and any subsequent data collection, the group formed by Dominican Republic (Julio Mejia), United States (Dan Eaves), COCESNA (Estela Rojas) and IATA (Marco Vidal):

- a) conduct its activities following the approved terms of reference (Appendix B to the FPL/AD/MON/1 Report);
- b) present an initial safety assessment to the FPL Ad hoc Group for approval by **13 May 2015**; and
- c) present the final safety assessment through the FPL Ad hoc Group to the ANI/WG/02 Meeting.

**Agenda Item 3 Review of the measures adopted during December 2014 – January 2015
period for mitigation of errors (recommended actions))**

3.1 Under WP/05, United States informed on the need to improve the quality of flight plan data being submitted into ATC flight data systems and relayed through the en-route, oceanic and terminal Inter-facility Data Communications systems in support of flight in domestic and international airspace. They commented that the Federal Aviation Administration (FAA) En route Automation Modernization (ERAM) system interacts with flight plan filers to accept/reject flight plans and associated messages and process the information. In this regard, United States invited the Meeting to engage in an initiative to examine data being processed within those ATC systems which process flight plan data with the intent of identifying the need for quality assurance initiatives where data integrity could be compromised, highlighting the following issues:

- good experience with active feedback process with FPL filers for FPL error corrections
- ensure that changes to FPL related procedure be done following the appropriate Aeronautical Information Regulation and Control (AIRAC) cycles
- definition of times for Modification Message (CHG), Flight Plan Cancellation (CNL) and Delay (DLA) messages

3.2 Under WP/13, Curaçao commented on the activities conducted within the Curaçao Flight Information Region (FIR) related to errors and problems associated with Flight Plan data collection, processing and distribution, including the actions taken in accordance with ICAO FPL error “suggested actions”, emphasizing that the collection of data was not easy, because of lack of automated means and available personnel.

3.3 Curaçao clarified by email that the adjacent FIR causing the FPL Errors is MVZM, Maiquetia FIR, facing multiple issues related to FPLs such as lack of compliance with Daily (DLY) messages, Departure (DEP) messages and correct use of item 10.

3.4 Similarly, Curaçao informed that they have an issue with the services related to FPLs that are being offered to general aviation by online (web-based) companies, such as flightplan.com. FPLs are not being distributed correctly to all the FIRs involved. Curaçao has email contact with flightplan.com on this, and improvements have been seen, but there are more companies providing this service. The Meeting suggested that Curaçao contact United States to share experiences on handling these improvements with these companies.

3.5 The Curaçao FIR FPL group consists of the ATM Manager, AIS Manager, Air traffic services Reporting Office (ARO) Supervisor and ACC Supervisor. Finally Curaçao DC-ANSP committed to have more input and involvement to the process for the next data collection phase.

3.6 Under WP/11, Dominican Republic presented the actions taken by the personnel in the Santo Domingo FIR to mitigate errors in the processing of flight plans, according to the recommended actions of the FPL Monitoring Ad hoc Group. Dominican Republic also commented that for the next phase of data collection, the errors detected at the control centre will be included.

3.7 Under WP/12, Jamaica presented their experience on FPL errors management, informing on the activities undertaken to collect the relevant data associated flight plan issues and indicated what actions will be taken to deal with the issues that have arisen. Jamaica commented that currently they have an Aeronautical Message Handling System (AMHS) platform in operation, where submitted flight plans are converted from the old format for receipt by the AUTOTRAC Automation system, which is not compliant with the new Flight plan requirements, indicating that Jamaica receives flights plans mostly via Fax and some via AMHS and identifying the cases of he FPL errors and the actions taken to resolve them.

3.8 Under WP/15, Haiti informed that they still use the AIS-R System as their main FPL Data source; however plans are to implement an AMHS System shortly and an ATC Automated system later.

3.9 Under IP/02, Costa Rica commented, their current FPL errors due to current ATC Automated System/Flight Data Processing (FDP) which is still using a FPL converter, and the estimated time for implementing a fully compliant ICAO new FPL form ATC System is on 2018.

3.10 Under NI03, Cuba informed on the results of their implementation of the “suggested actions” proposed by the FPL Ad hoc Group to mitigate the problems associated with the missing, duplications and errors in flight plans received. Similarly, Cuba commented on their plans to amend the guidelines used in their safety inspection visits, in order to follow up on the FPL error activities, especially with the airline operators.

3.11 Under WP/19, Mexico explained the current joint work between DGAC and SENEAM by applying the FPL error suggested actions, including the establishment of their FPL coordination office.

3.12 Under WP/07, Trinidad and Tobago commented on the activities within the Piarco FIR as they are related to errors and problems associated with Flight Plan data collection, processing and distribution. The Piarco FIR Ad hoc group consisted of Anguilla, Antigua and Barbuda, Barbados, Dominica, Grenada, Guadeloupe, Martinique, Montserrat, Saint Kitts and Nevis, Saint Lucia, Saint Vincent and the Grenadines and Trinidad and Tobago.

3.13 The following initiatives were proposed by Piarco:

- The E/CAR States should ensure that their systems and resources are available and ready for the next data collection phase
- A more detailed list of error categories reflected on the template can be discussed to identify errors that are classified as “others”
- Proper training of operators where possible. Training of E/CAR AIS/AIM staff can be arranged within the specified units. The Meeting urged the E/CAR/States, training for the other operators outside of the AIS/AIM offices who promulgate FPLs directly

3.14 COCESNA, under WP/20, informed on the planned actions to assist in the solution of FPL errors:

- ATS route database standardization in Central America
- Standard Instrument Departure (SID)/Standard Instrument Arrival (STARS) name correction
- Upgrade of ATC Systems and AMHS implementation
- Training for AMHS and ARO staff

3.15 Under WP/16, the Secretariat provided an overview of the responses to the suggested actions provided by the FPL Ad hoc Group submitted under State Letter *EMX1186* dated 19 December 2014. Responses were received from Aruba, Curaçao, Cuba, Dominican Republic, Costa Rica, Haiti, Mexico, Trinidad and Tobago, United States and COCESNA.

3.16 The experience and lessons learned from the ANSPs/States on solving or mitigating the FPL errors was considered in the update of the FPL error suggested actions coming from the FPL Monitoring Ad hoc Group presented in WP/03. An update of the suggested actions was agreed as presented in **Appendix C** to this report. In this regard the Meeting adopted the following Decision:

DECISION

FPL/AD/MON/1/2 APPROVAL OF THE APPLICATION OF SUGGESTED ACTIONS FOR FPL ERROR MITIGATION/SOLUTION

That, in order to improve and continue the mitigation/solution of FPL errors, the Suggested Actions presented in Appendix C to the FPL/AD/MON/1 report is approved and agreed to be used for the second phase of FPL data collection.

Agenda Item 4 FPL Guideline and Contact List presentation

4.1 Under WP/04, United States presented a contact list for a significant number of airlines to serve as reference for contacting the airlines in the task of investigating and mitigating any FPL errors (**Appendix D** to this report). The list included Aeronautical Fixed Telecommunication Network (AFTN) address, points of contact in order of preference, office and cell phone numbers, email addresses and other contact means. A list of airlines and the AFTN addresses (**Appendix E** to this report) to which the United States sent rejected messages is also included.

4.2 The contact list was accepted as useful, and actions were defined to make the list accessible and keep it updated. Therefore, the Meeting formulated the following Decision:

DECISION

FPL/AD/MON/1/3

FILE PLAN FILER CONTACT LIST

That, in order to support the feedback process for investigating and mitigating any FPL errors, the following actions are to be conducted:

- a) ICAO will provide the FPL Monitoring Ad hoc Group's website as the centralized place to access to the File Plan Filer Contact list. Provisions will be made to restrict access to only group members by **17 March 2015**;
- b) all ANSPs should provide a point of contact to receive and investigate any report on FPL errors within their FIR
- c) ICAO will collect the States/ANSPs PoC for the list by **14 March 2015**;
- d) all members of the Ad hoc Group will send any updates to the list within one month to the representative of the United States (include e-mail) (first comments by **8 March 2015**) to begin with a list as updated as possible; and
- e) regular updates will be programmed each six months by the FPL/MON to be presented at the teleconference closest to these dates.

4.3 Similarly, United States presented part of their Flight Planning Interface Reference Guide, which indicated the requirements that must be met when filing flight plans to their airspace. One of the items which were relevant to the meeting was that multiple flight plans will be rejected by the system. Any changes to flight plans must be handled cancelling the previous flight plan and filing the correction, or contacting directly the facility flight data unit.

4.4 In the reference guide there is a table describing the requirements for each field in a flight plan, in which it was noted that the alternate aerodrome is defined as optional in their airspace, and that any flight plan that has field 19 included within field 18 will be rejected.

4.5 An important note is that most of these measures are published in the AIP, however, it is useful to have these requirements published in a condensed and practical means as the guidelines presented by the United States. An action item, included in the recommended actions (Appendix C), is to ensure that all relevant information to the procedures of flight plan filing be published in the AIP, and optionally in another form similar to the guidelines.

4.6 Under WP/22, draft guidance on actions to mitigate/solve FPL errors was presented by United States and IATA. The Meeting clarified that the guidance is to be considered as a complementary document to the Suggested Actions made by the FPL Ad hoc Group. The FPL guidance is presented in **Appendix F** to this report. In this regard the following decision was adopted:

DECISION

FPL/AD/MON/1/4

APPROVAL OF FPL GUIDANCE

That, in order to improve and make more effective the FPL data collection and analysis processes, the FPL Guidance presented in Appendix F is approved and agreed to be used for the 2nd phase of FPL data collection.

4.7 The Meeting commented on the need or confirmation of the FPL AFTN addresses of each FIR as it should be published in their AIP and in line with the locator indicators listed in ICAO Doc 7910 – *Location Indicators*. In this regard the Meeting adopted the following Decision:

DECISION

FPL/AD/MON/1/5

FPL AFTN ADDRESSES LIST

That, in order to ensure the correct FPL delivery and process by each FIR:

- f) IATA provide an initial list of AFTN addresses being used by the operators by **16 March 2015**;
- g) the CAR FIRs confirm the AFTN addresses by **20 March 2015**; and
- h) the final list be available for the 2nd phase of data collection thru the FPL Monitoring webpage.

Agenda Item 5 Review of airlines FPL processing capabilities.

5.1 Under WP/18, the International Air Transport Association (IATA) presented an overview of the systems used by the airlines to generate flight plans and related information. Screenshots of different systems were shown, describing the functionalities related to addressing, fuel calculations, impact of the alternate aerodrome, etc. The ATS message functionality, in which Cancel (CNL) or Delay (DLA) messages are constructed automatically from the information of the flight plan, was also shown.

5.2 It was noted that the systems do not process the supplementary information automatically as the rest of the flight plan information, but require a manual process for the purpose. This issue of the supplementary information was discussed in agenda item 11 of this report.

5.3 It was also noted that among the communications means available to these systems (Aeronautical Fixed Telecommunication Network (AFTN), International Society for Aeronautical Telecommunications (SITA), e-mail), Aeronautical Message Handling System (AMHS) was not mentioned. IATA indicated that the airlines could request the changes in their systems if it was required by ICAO. ICAO pointed out that the transition to AMHS is specified as a goal in the NAM/CAR Regional Performance-Based Air Navigation Implementation Plan (RPBANIP), and is also included in the Aviation System Block Upgrade (ASBU) Block 0, so the transition of the airlines would be a contribution to these goals. In this regard the following decision was made:

DECISION

FPL/AD/MON/1/6

AIRLINES INTERCONNECTION AMHS SYSTEM CAPACITY

That, in order to ensure the appropriate communication of the airline users with the Air Navigation Service Providers (ANSPs) for the flight plan filing actions, IATA coordinate with their members their connectivity capacity for using AMHS, informing the FPL Ad hoc Group by the ANI/WG/2 Meeting.

Agenda Item 6 Review of data collection process and form: improvements

6.1 Under WP/14, Costa Rica presented a revised version of the form used to collect data for analysis. The most significant change introduced was the inclusion of several columns, to facilitate the analysis process: State, Sequence, and Company. Also new error messages were included.

6.2 During the discussion, the following changes were proposed and accepted to this first draft:

- a) The elimination of the Duplicate, Missing and Similar columns, and the inclusion of these in the error message list. This would facilitate analysis, allowing to view these errors as part of the total.
- b) The elimination of the State column, and including it as a field in the form, as was originally.
- c) The elimination of the sequence column, as this is a field only relevant to analysis, and can be then included.
- d) The elimination of Doc 4444 – *Air Traffic Management* and proposed solution columns, as these were not considered relevant for the collection process.

6.3 The format for each field was also reviewed, specifying the format for the date, and indicating that the originator be specified by the AFTN address used in the message that is in error. The consolidated table with all the data from the first phase of collection was shown, to give an idea of the analysis process, and to emphasize how incorrect data from the collection can impact as negative in the analysis. **Appendix G** shows the form agreed by the Meeting for application for the second phase of FPL Data Collection. In this regard the following decision was adopted:

DECISION

FPL/AD/MON/1/7 APPROVAL OF THE APPLICATION OF NEW FPL DATA COLLECTION FORM

That, in order to improve and make more effective the FPL data collection and analysis processes, the Data Collection Form presented in Appendix G to the FPL/AD/MON/1 Report is approved and agreed to be used for the 2nd phase of FPL data collection.

6.4 The Rapporteur expressed that the collection process must be as accurate as possible to have best results on analysis. In general it is difficult to dedicate personnel for this end, but it is important to collect as much as possible. It was also expressed that in the process the error messages be normalized and not just be a transcription of the error messages given by the system, and also include more than the error messages generated by the system, as those errors detected by the control centres. This will allow a better and more accurate picture of the reality of errors in the region.

Agenda Item 7 Planning of the second phase of data collection

7.1 Under WP/21, COCESNA presented some considerations based on their experience of data collection, showing statistics of the main errors detected by them during the first phase, and offering recommendations that were in line with what has been detected by this Ad hoc group.

7.2 The second phase of data collection will be conducted between March and April 2015, with its analysis by **May 2015** and the presentation of results to the ANI/WG/02 Meeting (June 2015). The details of the action plan will be made on Agenda Item 10.

7.3 From the experience of the first phase of data collection, several considerations were made by the Meeting:

- a) that States/ANSPs apply the suggested actions and guidance adopted by the FPL Ad hoc Group
- b) timely reporting of FPL errors
- c) include not only erroneous and duplicated FPL, but the missing FPL
- d) use the template for the data collection applying the pop menus and avoiding free texting.

Agenda Item 8 Discussion of Alternate Aerodrome issue

8.1 Under WP/08, IATA presented the items in the Annexes according to which it is possible to omit the alternate aerodrome in flight plans, and expressed that this provision is currently applied only for flights going from Latin America to the United States.

8.2 ICAO stressed that the issue lies in the fact that flight plans do not get rejected by automated systems, and that there is a difference between the flight plan in the context of Annex 2 and the flight plan in the context of Doc 4444, the latter being the operational flight plan.

8.3 WP/09 was presented, where the survey on which FIRs considered mandatory the specification of alternate aerodromes, and if it is required by the Flight Data Processors (FDPs). This survey was not complete as many FIRs have not yet answered, but only the Habana FIR reported the requirement of this item for their FDP.

8.4 It was agreed that a universal solution would be the indication of value ZZZZ in field 16c, and indicator ALTN/NONE in field 18 for those flight plan messages which do not specify an alternate aerodrome. Also, it was agreed that ICAO presents to the ANI/WG/02 meeting in June the regional agreement encompassing the decision of using ZZZZ in field 16c when there is no alternate aerodrome specified for the FPL. In this regard the following Draft conclusion was adopted:

DRAFT CONCLUSION

FPL/AD/MON/1/1 OMISSION OF ALTERNATE AERODROME IN FPL MESSAGES

That, in order to avoid FPL rejection in which the omission of the alternate aerodrome apply in FPL messages:

- a) States, Territories and International Organizations take appropriate action to use the value ZZZZ in field 16c, and in field 18 specify the indicator ALTN/ with the value NONE, for the purpose of avoiding rejections from automated flight plan FDP by **31 July 2015**; and
- b) ICAO NACC Regional Office take proper action to coordinate these changes in the ICAO Documents, as required, including presenting to the ANI/WG/02 meeting in June 2015 the regional agreement encompassing this decision.

Agenda Item 9 Data Analysis procedure discussions

9.1 Under WP/06, the FPL Ad hoc Group Rapporteur described the procedure used to analyse the data collected during the first phase of data collection completed from July to August 2014, highlighting:

- goals of analysis: The analysis procedure has the goal of identifying the sources of error. The source can be internal to the State (errors committed by Air traffic services Reporting Office (AROs)), systems errors, inconsistency of data between local systems), or external (flight plans submitted twice of with errors by a neighbouring FIR). Data analysis should permit the identification or the most frequent errors encountered by each State, if the source of these errors is internal and external, and who exactly is the source
- logic of analysis: The data was collected using the agreed data collection form. The logic was to cross the sources with the errors; specifically, to measure the level of errors generated by each source, and identify those sources that generated the majority of errors
- data analysis: Many tables and graphs were generated, a few with the totals for all States, but most showing each State individually. Some of the graphs including the total errors, total errors by State, total errors by company, and total errors by callsign
 - for each State, a graph of total errors, errors by company, errors by callsign, and errors by ATS unit was constructed. These graphs gave an overall view of what the main errors were for each State, and who was originating them
 - as observations, not all States provided data, nor the same amount of data. Some States had a great volume, while others less. Because of this, the graph for total errors was produced by percentage, instead of number of errors. As more data is produced, the sample will be more representative
 - also, in some cases the collection was done mainly from the error detection facility of the flight plan processing software (e.g., AISR). This would limit the errors to those that can be caught by the software, and those that cannot be detected will not be found (e. g., missing flight plans). Thus, the analysis could be more complete if these cases are included

9.2 In this regard the Meeting adopted some improvements and changes to the data analysis process:

- a) expanding the analysis team to have a FPL Analysis Group formed by subregions, coordinated by the FPL Ad hoc Group Rapporteur as follows:
 - E/CAR: Ricky Bissessar, email: rbissessar@caa.gov.tt
 - C/CAR and United States inputs: Fernando Casso, email: fernando.casso@idac.gov.do

- Central America and Mexico: Fernando Naranjo, email: fer_nar_eli@hotmail.com
- b) weekly recollection of FPL data submitting it to the Analysis Group
- c) presentation of data analysis on a progressive weekly graph

9.3 Due to the above, the following decision was adopted:

DECISION

FPL/AD/MON/1/8 FPL DATA ANALYSIS-2ND PHASE OF FPL DATA COLLECTION

That, in order to accurately and timely recollect and analyse the data collected in the 2nd phase of FPL data:

- a) all CAR FIRs submit their FPL data to their corresponding FPL Analysis Group Point of contact;
- b) all CAR FIR weekly recollect their FPL data submitting it to the FPL Analysis Group; and
- c) the FPL Analysis Group analyse and present the data analysis on a progressive weekly graph.

Agenda Item 10 Review and update the FPL Ad hoc Group Action plan.

10.1 The current group action plan was presented, and additional items were added pertaining to the second phase of data collection.

10.2 The schedule for the data collection phase 2 is as follows, and detailed in **Appendix H** to this report:

2.1	Obtain and distribute the AFTN address list of FIRs	26-02-2015	15-03-2015
2.2	Teleconference for coordination	09-03-2015	09-03-2015
2.3	Data Collection	16-03-2015	10-04-2015
2.4	Teleconference, week 1 of data collection	23-03-2015	23-03-2015
2.5	Data Collection analysis	13-04-2015	01-05-2015
2.6	Post-analysis teleconference	06-05-2015	06-05-2015
2.7	Phase II data collection report	07-05-2015	13-05-2015

10.3 In this regard the Meeting adopted the following Decision:

DECISION

FPL/AD/MON/1/9 APPROVAL OF FPL AD HOC GROUP ACTION PLAN UPDATE

That, in order to effectively follow the FPL Ad hoc Group activities, the FPL Ad hoc Group Action plan Update presented in Appendix H is approved and agreed to be followed for the 2nd phase of FPL data collection.

Agenda Item 11 Other business.

11.1 Under WP/17, the issue of the provision of supplemental information by part of the operators was discussed. IATA expressed that this information is not normally transmitted. Dominican Republic and Haiti emphasized the importance of having this information available immediately at the ATS units, and that it is not always possible to obtain this information in a timely manner from the operator.

11.2 In this regard, the following draft conclusion was adopted:

DRAFT CONCLUSION

FPL/AD/MON/1/2 PROVISION OF FPL SUPPLEMENTAL INFORMATION

That, in order to control and ensure the provision of FPL supplemental information the CAR States/ANSPs establish agreements with operators to provide FPL supplemental information to the ANSPs when needed, and the complete contact information be used at any time for this purpose, or to provide this information for each flight plan by means of the local dispatch office. The agreement to provide the information on demand would only apply to those operators that have 24/7 availability of personnel to attend the request.

**FPL2012 POST IMPLEMENTATION CHECKLIST AND FOLLOW-UP TO FPL2012 FULL COMPLIANCE ACTIVITIES
FOLLOW-UP: 24 FEBRUARY 2015**

Date	Solution	
	AFTN Terminal –FPL	ATC Automated System - FDP
Anguilla	Implemented	Manual
Antigua and Barbuda	Implemented	Manual
Aruba	Implemented	Implemented
Bahamas	AMHS to be implemented in 2015	New ATC Automated System for 2015. Currently converter in use
Barbados	Implemented	Implemented
Belize	Implemented	Full upgrade planned for 2018 (converter in use)
Bermuda	Implemented	Manual
British Virgin Islands	Implemented	Manual
Canada	Implemented	Implemented
Cayman Islands	Implemented	Implemented
COCESNA	Implemented	Full upgrade planned (March 2015). Currently converter in use
Costa Rica	Implemented	Full upgrade planned for 2016 (converter in use)
Cuba	Implemented	Implemented
Curacao	Implemented	Implemented
Dominica	Implemented	Manual
Dominican Republic	Implemented	Implemented
El Salvador	Implemented	Implemented
Grenada	Implemented	Implemented
Guatemala	Implemented	Full upgrade planned for April 2015 (converter in use)
French Antilles	Implemented	Implemented
Haiti	Manual. AMHS System scheduled	Manual
Honduras/San Pedro Sula	Implemented	Full upgrade planned for 2018 (converter in use)

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Date	Solution	
	AFTN Terminal –FPL	ATC Automated System - FDP
Jamaica	Implemented	Full upgrade planned (converter in use)
Mexico	Implemented	Implemented
Montserrat	Implemented	Manual
Netherlands (BES Islands)	Manual	Manual
Nicaragua	Implemented	Implemented
Saint Kitts and Nevis	Implemented	Manual
Saint Lucia	Implemented	Manual
Saint Vincent and the Grenadines	Implemented	Manual
Sint Maarten	Implemented	Implemented
Trinidad and Tobago	Implemented	Implemented
Turks and Caicos	Implemented	Implemented
United States	Implemented	Implemented

**FPL AD HOC GROUP
ANALYSIS GROUP FOR SAFETY ASSESSMENT OF FPL ERRORS
TERMS OF REFERENCE**

1. Background

During the FPL/AD/MON/1 meeting held from 24 to 26 February 2015, the Meeting recognized the need to quantify the safety impact or consequences of the FPL errors detected as part of the first phase of FPL data collection for the different phases of flight. This Analysis Group for Safety Assessment of FPL errors is a Group of the FPL Ad-hoc Group of the AIDC Implementation Task Force.

2. Responsibilities

The Analysis Group for Safety Assessment of FPL errors is responsible for:

- a) Examining the subject FPL errors identified by the FPL Ad hoc Group
- b) Evaluating the safety impact of the FPL errors
- c) Recommending actions to mitigate safety impact

3. Working Methods

The Analysis Group for Safety Assessment of FPL errors will:

- a) Carry out the activities assigned by the FPL Ad hoc Group from the FPL data collection process
- b) Conduct teleconferences to review progress of the assessment.
- c) Present the corresponding reports to the FPL Ad hoc Group on safety assessment and its progress.
- d)

4. Membership

- a) The members of this Group are the following:

Member Name	State/Int'l Org	Email
Julio Mejia	Dominican Republic	jmejia@idac.gov.do
Dan Eaves	United States	dan.eaves@faa.gov
Estela Rojas	COCESNA	esthela.rojas@cocesna.org
Marco Vidal	IATA	vidalm@iata.org

UPDATED SUGGESTED ACTIONS FOR FPL ERROR MITIGATION SOLUTION

1. Recommended Actions

- 1.1. ANSPs to report any update to FPL2012 converters removal and full FPL2012 processing capability.
- 1.2. Consider the implementation of electronic applications for the pre-departure clearance (PDC) as necessary;
- 1.3. All ANSPs to verify the level of validation of their systems, based on the data analyzed, and define the necessary procedures to ensure that those fields that are not validated automatically by your systems are properly checked.
- 1.4. All ANSPs should, to the extent possible, investigate the cause of error with originator, take any corrective action and record the agreed solution.

Missing FPLs

- 1.5. ANSPs to verify the correctness of the address(es) that is/are published in their AIP for FPL filing (ENR. 1.11) processing. Also ensure the publication in the AIP the corresponding procedures in accordance with ICAO SARPs for the coordination, validity and update of changes in flight plans. Changes in addresses or procedures should be notified via NOTAM or other means to all relevant destinations, as also to contacts for the operators, including IATA.
- 1.6. Update domestic provisions on flight plan message transmission in accordance with ICAO Doc 4444 and the NAM Interface Control Document (ICD) for data communications between ATS units
- 1.7. Define a centralized list of contacts of airlines and dispatchers, and keep it up to date. (action item).

Duplicated FPL

- 1.8. ANSPs to update Letters of Agreement (LOAs) between adjacent ATS units for flights that operate from one FIR to an adjacent FIR, where deemed necessary
- 1.9. ANSPs and operators should refer to the best practice guidance material, to avoid conditions that are favorable to the occurrence of multiple flight plans.

Rejected/Incorrect FPLs

- 1.10. Ensure harmonization of the information between FDPs and ARO FPL system databases (designators, aircraft types, performance data, etc). Each ANSP to review their situation and inform of results.
- 1.11. Ensure that the originator of a rejected message gets the feedback so the error can be corrected. Refer to the contact list.

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2. *Next actions*

2.1 2nd Data Recollection: March 2015

2.2 Analysis: May 2015

2.3 Results presentation: ANIWG/2 Meeting (June 2015)

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FLIGHT PLAN FILER CONTACT LIST

Version 1

POC Name	POC Email	Office	Cell	Other	Comments
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Raul Aguirre (FPF)	raguirre@aeromexico.com.mx	+011 5255 9132-5500		(281) 233-3406	
Recep Bayindir	Recep.Bayindir@airberlin.com dispatch@airberlin.com	+49-30-3434-3705			
Dmitry Levushkin Chief Flight Dispatcher Volga-Dnepr Airlines	Dmitry.Levushkin@volga-dnepr.com	+7 8422 590370 +7 8422 590067			Also see Volga-Dnepr Airlines (VDA)
Richard Steele (Mgr Flt Supt) Rod Stone	Richard.Steele@aircanada.ca rodney.stone@aircanada.ca	+905 861 7572 +905 861 7570	647 328-3895	905 861 7528	
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Thierry Vuillaume	<a href="mailto:Thierry.Vuillaume<thvuillaume@airfrance.fr>">Thierry Vuillaume <thvuillaume@airfrance.fr>	+33 (0)1 41 56 78 65			
Puneet Kataria	pkataria@airindiausa.com p_kataria@hotmail.com	+718-632-0125 +718-632-0162direct	917-9811807	+ 91-22-66858028	Use SABRE for flights arriving/departing USA

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Sandra Park	Sandra.Park@mesa-air.com	602-685-3748		(602) 685-4300	Also see Mesa Airlines below
Jim Eliam (Chief Pilot)	dispatch@airsprint.com	888-634-3330	403-680-0159 403-730-2344	(877) 588-2344	
Henrik Kristensen Martin Bjerregaard	hk@airsupport.dk mb@airsupport.dk support@airsupport.dk				
Natalie Ferron				514-906-5115 (Disp) 24 Hr.	
Frédéric Orcival (Airbus Flt Ops)	frederic.orcival@airbus.com account.ops-center@airbus.com	33 (0)5 67 19 07 83 33 (0)5 61 93 20 00			
	airoperations@airnet.com	877-293-8463			Also see Starcheck
John Morris David Bradshaw	aispmo@att.net David.Bradshaw@faa.gov	513-522-0171	202-256-2630		
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				(800) 368-5387 x11	
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Lindi lee Kirkman	Lindik@atns.co.za	27 11 928 6523 271-1928-6565 fax			
Scott	-	780-229-1726			New 780-229-1726 see Morning Star
				(800) 519-4222	
Noland Rolle	nolandr@bahamasair.com,	242-377-8843 242-702-4168		242-702-4169	
				(800) 622-9004 (803) 822-8832	
Mike O'Keeffe	mokeeffe@banyanair.com	954-491-3170	954-873-4310		
		281-280-2200		800-333-3563	Combining with Colt. Check other numbers below
	BENR@BeringAir.com				
		866-291-2379		(866) 291-2379	
	d.keesling@bighornairways.com (Chief Pilot)			(307) 672-3421	
Elly Henry	ehenry@miamiair.com			(305) 876-3678	
	james_erickson@jetaviatyion			(201) 462-4114	

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	dispatch@xtraairways.com	208.336.0414 Disp. 208. 333.9872			New
Andy Heinz (disp sup)		937-454-5887		(937) 454-5829/5840	All numbers disconnected. For dispatch call US Airways
Nigel Free Ian Gardiner (flt ops)	nigel.free@ba.com Ian.Gardiner@ba.com Paul.wiggins@ba.com	44 208 513 0379 0208-513-0433	+44 789 612100	BAW 800-247-9297	
	operations@excaire.com			(888) 483-7070 514-420-2999 24 Hr. Ops	
Brian Livingston Mike McCarthy (Chf Pilot)	Brian.Livingston@CanJet.com Michael.McCarthy@CanJet.com	902-873-7861	902-488-5604	902-873-7800	
Harrydath Maheepat SOC	harrydath.maheepat@caribbean-airlines.com soc@caribbean-airlines.com dispatchers@caribbean-airlines.com	868-669-0110		868-669-3000 ext 2357 or 2960 868-669-3000 extensions 2342/2343/2344	I added this one because it took over Air Jamaica.
Richard Cromwell	dispatchgroup@cargojet.com	905-679-9858 800-753-1051 ext 136			
				(281) 443-2494 (ask for Ops)	
	dispatch@xtraairways.com			(775) 738-4646	
Duty Flight Dispatch Coordinator Edwin Wong Julian Fung Owen Dell Florence Wong	fop_dispatch_admin@cathaypacific.com edwin_wong@cathaypacific.com julian_fung@cathaypacific.com owen_dell@cathaypacific.com florence_fl_wong@cathaypacific.com	852 2747 3626 852 2747 2522		011-852-2747-3626	

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	fcontrol@centurionaircargo.com	305-870-9445			
Stora Harris	Stora.Harris@rjet.com	317.471.2733		(317) 471-2250	Also see Mercury Shuttle and all listings under Republic Holdings below. Check 7/15 to see about removing. They will be combining ops.
					See Below
Mike Wilczewski	mike.wilczewski@jeppesen.com	303-328-4097	303-847-9138	Taipai disp. 011-886-3-399-3951	Also See Dynasty (CAL)
Steve Ruan Zhi Xiang (OCC)	ruanzhx@shanghai-air.com	86 21 68857005 x862		011 862 1626 82817 (773) 474-8036	See SHQ or BAA
SFO/Miao Jinghui LAX/Yin Jun ANC/ Liang Zhong JFK/ Teng Yuning CSN H/Q	miao@csair.us yin@csair.com liangzhong@csair.com tengyn@csair.com soc@csair.com klax@163.com	917-602-6558 310-808-3833 847-243-3150 847-899-2129 86-20-28235704			
	cjensen@classicaviation.com			(316) 676-8179	
	ops@claylacy.com	800-354-9724 818-994-0087		(818) 989-2900	
				(800) 800-6061	Uses Universal Weather for flight plan filing.

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				(734) 544-7031 (734) 484-2708	Also Files as Kalitta (KFS) (see below)
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				(404) 715-0160	Delta Company Freqs.
Kim Sparks Steve Villanueva Anne Menassian (FAA) Bill Young (PM)	ksparks@dtcduat.com	856-228-3232 202-385-7795 202-385-7754 856-889-7452	203-675-6507		CO- Patrick.Weare@faa.gov, AAQ-240, 202-267-5483 COTR- Lisa.Floyd@faa.gov, AJR- B2, 202-385-7565
				(800) 538-1316	This number will change sometime this summer. Also see above China Airlines (CAL)
				(817) 967-8400	
				(610) 266-1300	Files thru Pinnacle
Mrs. Yamit Hahn Alon Lavi (Chief Dispatcher)	yamitha@elal.co.il alonl@elal.co.il	+972-3-971-6846 +972-3-9716843			
	flightcontrol@deltaprivatejets.com	859-534-4286 ops		(800) 927-0927 x5	
	charter@elliottaviation.com	952-277-2040 disp.			
Mark Adams (ASM KIAH) Adil Chinoy Ekkehard Gutt	mark.adams@emirates.com adil.chinoy@emirates.com ekkehard.gutt@emirates.com	971 4 708 4304 971 56 1779743			

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	charter@N-Jet.com			(815) 455-7707 (ext. 2)	Does most of flight plan filing at Universal
Desta Demisse Eskedar Seyoum	DestaD@Ethiopianairlines.com EskedarS@ethiopianairlines.com	(+251011)5178803	+251911516122 '001-202-255-8399		
Rita Fu PENG, CHIH MING (Jimmy)	ritafu@evaair.com jimmpeng@evaair.com	886-3-351-6373 886-3-351-6074			
Kevin Johle Gilbert Adam	KJohle@airinc.com Gilbert.Adam@excaire.com	410-266-4665 888-483-7070 x2341	514-916-1543		
Christopher Anderson (Route Planning)	Christopher.Anderson@expressjet.com	404-856-1929 (ATC Coordinator)			
Mike McAfee	mmmcafee@fedex.com	901-397-8040 ops			
Sanford Hough	Sanford.Hough@Flexjet.com	972-720-2771		(972) 720-2771	Also see Solution (BJS)
Gerald McKean	Gerald.Mckean@faa.gov			(405) 954-9780	
				(800) 777-0525	For flight plan issues contact SkyPlan
	airoperations@airnet.com	877-293-8463			Also see AirNet or Starcheck

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Dennis Florian (Sr. Ops Mgr)	dflorian@flightoptions.com	216-797-8303 216-797-8466 800-433-1285		(216) 797-8466 (800) 433-1285	
GDC Supervisors	DL- AEROGDCSupervisorss@Honeywell.com http://www.mygdc.com/public/webfltplan/ http://www.mygdc.com/public/fltsen/	888-634-3330 EXT#2 425-885-8100EXT#2		888-634-3330 (24 hr ops) 425-885-8100	Also see Honeywell GDC
				(217) 351-7700	See ARINC for flight planning
Kelle	Kelleg@floridajet.com			(954) 772-0778 (800) 265-5017	
Gabriel Gabrielli	ggabrielli@fwia.com	786-265-0383			Files thru Jeppesen
Ken Wilson	ken@fltplan.com	203-262-8900	203-262-0515	203-262-1706	
John Collins	john@foreflight.com	704 365-1161	704 576-3561		
	customerservice@virginiaaviation.com			(866) 622-4810 x1	
	ops@freightrunners.com			(800) 776-5525	
Joe Daniele (Lockheed Martin) Jeanne Giering (FAA Mgr)	Joseph.Daniele@lmco.com	240-401-0941 202-385-7627	240-401-0941		
	fbo@aerocharter.com			(636) 537-0005	
					See Atlas Air Inc.

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David Brabham Trip Redner Abi Gonzaga	David.Brabham@Honeywell.com Trip.Redner@Honeywell.com abilene.gonzaga@honeywell.com	425-885-8175 425-885-8942 281-419-3668	425-922-9396	425-885-8100	
Lee Ruesch John Marshall	lruesch@GoJetAirlines.com john.marshall@compassairline.com	314-222-4773	314-484-9525		
	nogle@flytradewind.com			(203) 267-3305 (ext 9 24 hr ops)	
	charteroperations@grandaire.com			(800) 704-7263	
	charter@heartlandaviation.com	800-767-3181			
Derek Meyer (Tech Mgr) Travis Holland	ops@holland.aero pda@holland.aero	360-306-0984 360-734-8419			
GDC Supervisors x David Brabham Trip Redner John Brooks (FMS Eng)	DL- AEROGDCSupervisors@Honeywell.com David.Brabham@Honeywell.com Trip.Redner@Honeywell.com John.Brooks2@Honeywell.com	888-634-3330 EXT#1 425-885-8100EXT#1 425-885-8175 425-885-8942 602-436-1789	888-634-3330 EXT#1 425-885- 8100EXT#1 425-922-9396		
	charter@hopajet.com			(954) 771-5779	
	Mark.Christiansen@HorizonAir.com, mike.timpe@horizonair.com,			503-249-5351 503-384-4386 (800) 547-7701	

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Bill Murphy (Liason to ATCSCC) Jeff Miller (North America/Atlantic) Marco Vidal Floyd Abang	murphyw@iata.org millerj@iata.org Vidalm@iata.org abangf@iata.org	540-422-4843 305-779-9867			
Johannes Bussi (KIAD Station Chief)	opsco@icelandair.is Bussi@IcelandAir.is	+354-4250274 ops 24 hr.A223 857-222-3699	+354-8647160		
	dispatchers@iflgroup.com			(800) 521-4406 (248) 666-9713	
Jon Wells	jwells@itpops.com operations@itpops.com	832-220-3518 866-573-7067			
Anthony Coult (AAL/2012) Mike Wilczewski Emmett Jerome (Tech Suprt) Fred Carmona (intn'l Flt Png) Tony Coult	anthony.coult@jeppesen.com mike.wilczewski@jeppesen.com navdatatechsupport@jeppesen.com fred.carmona@jeppesen.com Anthony.Coult@jeppesen.com	303-328-6306 303-328-4097 303-328-4445 614-239-6003 x1	720-382-9846 303-847-9138	24/7 Help Desk 303-328-4585 gssc@jeppesen.com Urgent Hotline 303-328-6429	
Bjoern Tiffert (Dispatch Coordinator)	bjoern.tiffert@tuifly.com	+49-511-9727-260	+49-151-62915055	+49-511-9727-797 (OCC, H24)	AFTN: EDDVTUIO Email OCC: dutymanager@go-centre.com & operations@go-centre.com
John Tahmazian (disp mgr) Craig Bauman	john.tahmazian@jetblue.com Craig.Bauman@jetblue.com	718-709-2153	262-412-6298	(718) 709-3771/3773	

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		402-991-8040 Disp 402-422-0393			
Pete Djordjevic	pDjordjevic@EjmJets.com	513-979-6881 877-224-9884 x2 513-979-6620 x2	513-484-2240 513-871-2004		
	flightfollowers@usajet.aero	734-547-8780 734-547-8794			
	dispatch@kaiserair.com			(510) 553-8433	
		(734) 484-2708 (734) 544-7031		(734) 484-2708 (734) 544-7031	Also file as Connie (CKS) (see above)
Jeff Taylor	jefftaylor@keylimeair.com dispatch@keylimeair.com	888-870-9626			
Rene Koch V Hilligers Boris Wicherink	Atm.supervisor@klm.com v.hilligers@klm.com boris.wicherink@klm.com	+31 20 3041100			
Scott Borton	scott.t.borton@questdiagnostics.com			(800) 694-1247	
Lufthansa Flight Dispatch, Shift Manager	dispatch@dlh.de	+49 69 696 2534 (H24)			
Keith Miller	KMILLER@lac.lynden.com flightops@lynden.com	907-249-0247	907-382-0670	907-249-0229	
				(270) 926-6700	We don't go there right now, but leave us on the list.
	lrummage@flymartinair.com			(800) 777-7401	
Steve	s5socc@rjet.com			(317) 471-2323	Also see all listing for Republic Holdings below.

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Sandy Park	Sandra.Park@mesa-air.com	602-685-3748	480-381-7114	800-358-2875	Also see Air Shuttle above
	mtodd@mceelycharter.com			(870) 735-0207	
	sethw@charterfirst.com			866-776-6261	
				(800) 363-4062	See Aurora Jet Partners a sister company that also flies under the name Morning Star Partners
Paul Simpson Francisco Cruz	psimpson@mtaircargo.com fcruz@mtaircargo.com	828 466 6714	828 455 8421 787 409 8956	828-464-8741 800 893 2217	
	ops@nationalairlines.aero			(800) 451-2272 407-283-6291 drct to disp	
Craig McFarlane Jason Stilwell	CMcFarlane@navtech.aero JStilwell@navtechinc.aero	519-747-1170 x278 519-747-1170 x223	519-748-7363	519-747-0616 (24hr)	
Bill Macey (sup. FP S/W)		937-558-2789			
Karl von Valtier (ATPM) Andrew Wuertzer Ron Klenotic	kvonvaltier@NetJets.com Wuertzer@NetJets.com klenotic@netjets.com	614-239-2071 614-239-2773 614-239-5462	614-302-7608		
Karl von Valtier (ATPM) Andrew Wuertzer Ron Klenotic	kvonvaltier@NetJets.com Wuertzer@NetJets.com klenotic@netjets.com	614-239-2071 614-239-2773 614-239-5462	614-302-7608		
Frank Kish	fkish@newworldaviation.com flightops@newworldaviation.com	610-231-9555		877-359-0100	
	dispatch@aircar.com			(800) 253-1711	

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Yasuo Nishiyama (US Reg Mgr) Emi Ishida Yuki Hirata	yasuo.nishiyama@nca.aero emi.ishida@nca.aero yuki.hirata@nca.aero	773-894-8250 81-476-32-9753 81-476-32-9214			
Michael Vaupell	Michael.vaupell@NAJet.net charter@najet.net				Uses Jeppesen or Universal Weather for flight plan filing. New Add Also see Starfish (SFH)
	charter@landmarkaviation.com			(800) 638-4990	
Steve Shenk	steve.shenk@faa.gov	609-485-6136			
Chris Painter	cp@okav.co			(405) 787-4568	
	dispatch@oai.aero			(918) 831- 3058/3060	
	dispatch@pcjets.com			888-725-3871	Mostly files with Universal WX
Jessie Nieves	jessie.nieves@penair.com Dispatcher@PenAir.com	907-771- 2598/2507/2506 907.771.2598			
	kendra@sierrawestairlines.com			(800) 538-7787	
				(800) 710-0913	See BJ&A (CXP)
Jorge Dias	Jorge.Dias@nav.pt	+35-191-908-0693	+351 919080693		
	charter@presidential-aviation.com			(888) 772-8622 954-772-8622	
				(888) 323-7887	Don't call us. Call Universal WX

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Graham Rennie John Lindsay Chris Restrepo Tomasz Wysocki (Ops Mgr @ KLAX)	grennie@qantas.com.au jlindsay@qantas.com.au chrisrestrepo@qantas.com.au tomaszwysocki@qantas.com	+61296911157 +61296911735 +61296911736 310-348-0703			
Stuart Reddy	SReddy@QatarAirways.com.qa navoffice@qatarairways.com.qa	+974 40-102842			
Ndiwa Wachina	nwachina@qatarairways.com.qa	+974 40-102743	+974 33 764 338		
	rbaker@redwingaero.com	651-797-0900 xt 1001			
Stora Harris Dispatch	Stora.Harris@rjet.com	317.471.2733 317-471-2022	317-716-5456		Also see Mercury Shuttle (Shuttle America) above
Uwe Nitsche RocketRoute Operations RocketRoute Sysadmins	uwe@rocketroute.com ops@rocketroute.com admin@rocketroute.com	44-793-217-5423 44-1273782130 44-7932175423			
Greg Murray	Gregory.Murray@rockwellcollins.com	713-430-7082			
SwissAir Dispatch (KJFK) Tom Larocca Brian Campbell KORD Station Manager Yousef Hijazeen	JFKOW@Swiss.COM Thomas.Larocca@swiss.com Brian.Campbell@Swiss.com Fltops.Help@sit.aero OCCAVP@rj.com Kenneth.Kross@swiss.com	718-751-4988 718-751-4950 011 44 208 756 8333 011 96 26 479 3587 800 411 3665 312-686-6020 (ORD)	718-924-5287	800-223-0470	
	dispatch@visionairlines.com			(702) 599-5366	

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Jason North Tim Mott Mike Hoppin (sales) Steve Hansen Jim Cloud	Jason.North@sabre.com Tim.Mott@sabre.com Michael.Hoppin@Sabre.com steve.hansen@sabre.com Jim.Cloud@sabre.com	682-605-4316 480-556-7348 480-556-7336 480-556-7304			
	dispatch@seaborneairlines.com icarrquillo@seaborneairlines.com keldredge@seaborneairlines.com		Dispatch #s 787-946-8687 787-946-8774 xt7021 787-946- 8774 xt7022	866-359-8784	
	charterops@jetselectaviation.com			(866) 748-4538	
	dispatch@bnticorp.com			(510) 562-5155	
	info@airshasta.com			(530) 222-0100	
Stora Harris	Stora.Harris@rjet.com	317.471.2733			
	charding@silverhawkaviation.com			800-479-5851	
Chris Lum	pinyau_lum@singaporeair.com.sg	65-65411418			
Chris Lum Cheng Yeow Tan (Tan is family name)	pinyau_lum@singaporeair.com.sg ChengYeow_Tan@Singaporeair.com.sg	65-65411418			
Mark Lawrence	MARK_LAWRENCE@SKYSERVICE.COMM GLAWR@TELUSPLANET.NET	403-923-2594	403-923-2594	403 275 5607	
Andrew Nettleton Stephen Sorkness	anettleton@skywest.com Stephen.Sorkness@skywest.com	435-634-3729 435-634-3772		435-634-3972	
	cpp@skyplan.com ops@skyplan.com	403-275-2520 403-275-2511 disp.			

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	handler@solaris.aero			(707) 523-4092	Also see Sunset and Twilight
				(972) 720-2771	Also see FlexJet.
Gavin Kovács	gavin.kovacs@flysaa.com FlightDispatch@flysaa.com jsbrief@atns.co.za jsnotam@atns.co.za operations@shs.aero	27 11 978 5660 27 11 978 6863 27 11 978 5661 718 751 4988 221 33 869 0732			
kevin macmillan	kmacmillan@southernair.com	859-568-9140	856-237-3190	859-462-4790	
Ron Ooten Keith Butler Matt Webster Gary McMullin Rocky Hagood Margie Majka	Ron.Ooten@wnco.com Keith.Butler@wnco.com Matt.Webster@wnco.com Gary.Mcmullin@wnco.com Rocky.Hagood@wnco.com Margie.Majka@wnco.com DispatchSpecialist-DG@wnco.com	214-792-4116 469-603-0463 214-792-5350 214-792-4851	214-695-1685	214-792-6500	
	dispatch@provair.com			(709) 576-3952	
Brian Folan (Manager, OCC) John Chadwick Rory Hight Greg Ganser	Brian.Folan@spirit.com john.chadwick@spirit.com rory.hight@spirit.com greg.ganser@spiritair.com	954-447-7925 954-628-4973 954-447-7828 xt7834/7103 954-447-7828 xt7834/7103	954-305-1862 954-618-7672	800-215-1647	Also see Spirit Wing
	ops@starbasejet.com			(281) 443-3443	
				(800) 999-1201 x6 x1	Also see AirNet They fly as both.
				(847) 883-8350	Also see North American Jets
	dmckenzie@summitairambulance.com	877-554-9111			

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Steve Dykhuizen	Steve.Dykhuizen@Suncountry.com dispatch@suncountry.com	651-681-4854	651-775-1308	651-681-4852 (Disp) (800) 733-6579	
	handler@solaris.aero			(707) 523-4092	Also see Solaris and Twylight
Alex Faulds (ops mgr) Dispatch	afaulds@flysunwing.com	416-620-4955 x3219 416-620-3720	416-456-7275	(877) 877-1755 x4055	
Douglass Chouinard (Chf Pilot 135) Tony Jobusch (Mgr OCC) Dispatch OCC	DChouinard@FlySwiftAir.com TJobusch@FlySwiftAir.com Dispatch@FlySwiftAir.com	602-273-4400 866-227-9438	602-421-9385		
Brian Campbell (JFK) Matthias Loehr	brian.campbell@swiss.com Matthias.Loehr@swiss.com	718-751-4936 +41-44-564-4096		718-751-4988 (JFK) (800) 411-3665 (718) 751-4988	
Markus Burri	Markus.Burri@Rega.ch	+41 58 654 39 37	+41 79 820 52 21		
Gregor Spuhler	Gregor.Spuhler@vtg.admin.ch saf-fsa.lw@vtg.admin.ch	+41 58 467 81 17 A398+41 79 447 37 44			
Jose Luis Arias Monroy Rene Cordova David Guerrero	jose.arias@taca.com rene.cordova@aviancataca.com David.Guerrero@aviancataca.com opseng@taca.com laxflightplantaca.com	(503) 2247-1083 503-2247-8888 x1081 503-2247-1546 (503) 2247-8888 ext. 8478	(503) 7150-8297	310-337-3106 use this #	
	aviationdispatch@jmfamily.com			(954) 429-2391	
	bringle@pacificaviation.com	310- 646-1167 310-985-9109 310-258-9913			
	dispatch@talonairjets.com	631-881-9536 disp.		(631) 753-8881	

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Santiago Parra	santiago.parra@avianca.com santiagoparraposada@gmail.com despachocentralizado@avianca.com	574 569 92 03	57+3017831416		
Paulo Marques Rui Soeiro Leonor Dias (KEWR Station mgr)	pmmarques@tap.pt flightdispatch.ov@tap.pt rsoeiro@tap.pt Lddias@tap.pt	351-218-415-123 (+351) 218 415 384 973-624-6363	(+351) 966 832 029 973-727-7275	(+351) 218 415 125	
				(316) 676- 3000/0380/8179	New. See Raytheon
Bjoern Tiffert (Dispatch Coordinator)	bjoern.tiffert@tuiify.com	+49-511-9727-260	+49-151-62915055	+49-511-9727- 797 (OCC, H24)	AFTN: EDDVTUIO Email OCC: dutymanager@go- centre.com & operations@go-centre.com
Paul Hoegstrom	paul.hoegstrom@us.af.mil	405-734-7108			
Ken Wilson	ken@fltplan.com	203-262-8900	203-262-0515	203-262-1706	Files thru FltPlan.com
	bpaul@iflgroup.com			(800) 521-4406 (248) 666-9713	
	dispatchops@airtransat.com			800-306-1011	
Brent Young (DO)	byoung@trinityjet.com soconnor@trinityjet.com	214-649-5474 972-559-1000			Files through FltPlan.com
	msh.syscom@maryland.gov			410-783-7525 disp.	
Bjoern Tiffert (Dispatch Coordinator)	bjoern.tiffert@tuiify.com	+49-511-9727-260	+49-151-62915055	+49-511-9727- 797 (OCC, H24)	AFTN: EDDVTUIO Email OCC: dutymanager@go- centre.com & operations@go-centre.com

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Bjoern Tiffert (Dispatch Coordinator)	bjoern.tiffert@tuifly.com	+49-511-9727-260	+49-151-62915055	+49-511-9727-797 (OCC, H24)	AFTN: EDDVTUIO Email OCC: dutymanager@go-centre.com & operations@go-centre.com
				(408) 286-3832 (408) 918-1128	
	handler@solaris.aero			(707) 523-4092	Also see Solaris and Sunset.
Tim Matuszewski Brian D. Smith Mike Beck (PDC)	Timothy.Matuszewski@united.com Brian.D.Smith@United.com	872-825-3016 713-324-4129 847-700-3701 872-825-2370 847-700-7166	847-220-0026	847-700-3389 847-700-3378	
John Uhl Chris Creighton Sherri Roberts Robert Putz (FP Suprt)	juhl@ups.com ccreighton@ups.com sherriroberts@ups.com rputz@UPS.com FGG3JTC@ups.com AIR1KAP@ups.com	502-359-0334 502-359-1687 502-359-5706 502-359-5606		502-359-0300 (502) 359-5194/5100	
Mark Miller Steve Hull (Tech Mgr) Jason Davidson Pam Acosta	mmiller@univ-wea.com shull@univ-wea.com j davidson@univ-wea.com pacosta@univ-wea.com	713-947-5782 866-866-0625 713-378-8093 800-231-8648 opt 9,ext 5754	713-775-3288	(800) 231-8648	
Kitty Custer Kevin Allen (Nav Spec) Peter Copeland (Disp Tng) Mark Montesano	kitty.custer@usairways.com kevin.allen@usairways.com pfc@usairways.com mark.montesano@usairways.com	412-474-4199 480-693-4637 412-474-4258 412-474-4131		412-474-5500 central dispatch	

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Stanislav Gurfinkel (NAV Mgr) Alexander Melnikov (Head FLT Disp.) Flight Dispatch TAS Airport (Duty off.) Flight Disp. NVI Airport (Duty off.) Global A/C Disp. JFK Airport (Duty off.)	stanislav.gurfinkel@uzairways.com Alexander.Melnikov@uzairways.com dispatch@uzairways.com Dispatch.NVI@uzairways.com ops@globaldispatch.aero	99-871-140-4604 998-71-1402931 998-79-7703153 998-79-7703153 1-718-751-1440	99-871-140-4604	fax 99-871-120-4735 998-71-1204922 998-71-1204922 --- 1-718-751-1443	
	cfi@cfiinc.com			(702) 736-0077	
Jay Warren (Disp. Mgr.) John Lee (Ops)	jay.warren@virginamerica.com john.lee@virginamerica.com	866-488-7202 Disp.			
Dmitry Levushkin	Dmitry.Levushkin@volga-dnepr.com	7 8422 590370 7 8422 590067			Also see Air Bridge Cargo Airlines (ABW)
Scott Khols	skohls@westjet.com	403-444-2089		866-284-8875	
	aviationsales@wsi.com	978-983-6325 800-872-2359			
	flightcontrolagents@nac.aero			(907) 249-5107	

AFTN ADDRESSES OF FPL FILERS

Version 1

Filer ID	AFTN Address	Filer Name
ICE	BIKFICEO	ICELANDAIR
ABD	BIRKABDO	AIR ATLANTA
ABL	CYHZABLD	AIR BC
ARN	CYHZARNX	AIR CANADA REGIONAL
CJA	CYHZCJAX	CANJET AIRLINES
ONT	CYHZONTD	ONTARIO
YNC	CYKFNSSB	
VRD	CYKFNSSL	VIRGIN ATLANTIC AIRWAYS
PCE	CYKFNSSP	
YSG	CYKFNSSW	KITCHENER-WATERLOO INTL
YPU	CYKFXNSX	
ZWB	CYTZPOED	PORTER AIRLINES
ACA	CYULACAC	AIR CANADA
SSV	CYULSSVX	SKYSERVICE
SYB	CYULSYBX	SKYSERVICE
TSC	CYULTSCX	AIR TRANSAT
ROK	CYVRROKO	NATIONAL AIRLINES INC.
ZZH	CYYCCOIX	COLT INTERNATIONAL, INC
MPE	CYYCMPEX	CANADIAN NORTH AIRLINES
WJA	CYYCWJAO	WEST JET
YYC	CYYCXXSK	SKYPLAN SERVICES LTD.
ACA	CYYZACAW	AIR CANADA
CJT	CYYZCJTX	CARGOJET
YSB	CYYZSKVX	SKY REGIONAL AIRLINES
CIU	CYYZXNSR	CIELOS AIRLINES
BSK	CYYZXNSS	MIAMI AIR
SWG	CYYZXNST	SUNWING
YRO	CYYZXNSV	NAVTECH
ZWS	CYYZXNSX	NAVTECH
XWW	CYYZXWWX	WORLD WEATHERWATCH
YAA	CZWGZKZX	
YZZ	CZYZZKZX	
YBJ	DGAAYOYX	Kotoka International Airport ARO
YSK	DNMMZPZX	MURTALA MUHAMMED INTL ARO
ZXU	EBBDZMFP	
ZWR	EBBRDHLL	DHL AIR LIMITED
DHL	EBBRDHLLX	WORLD EXPRESS DHL

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YRP	EBBRSABU	BRUSSELS AIRLINES
YQR	EBBRTCWB	THOMAS COOK AIRLINES
CFG	EDDFCFGO	CONDOR FLUGDIENST
ZXT	EDDFDLHD	LUFTHANZA SYSTEMS
ZXS	EDDFDLHN	LUFTHANZA SYSTEMS
YMV	EDDFDLHP	LUFTHANSA
ZZC	EDDFDLHS	LUFTHANSA SYSTEMS
YBH	EDDFETDX	Etihad Airways
YQS	EDDFEVAX	EVA AIRLINES
GEC	EDDFGECO	LUFTHANSA CARGO
YAT	EDDFKACX	KUWAIT AIRWAYS CORPORATION
RAM	EDDFRAMX	ROYAL AIR MAROC
TAI	EDDFTAIX	TACA
YSM	EDDFXLFX	STARWAY XL AIRWAYS
YQQ	EDDMDLHD	LUFTHANSA
BOX	EDDPBOXX	German Cargo Aerologic
ZWV	EDDSDCSC	DC AVIATION
YPR	EDDTBERA	AIR BERLIN
ZTA	EDDTBERX	AIR BERLIN
HLF	EDDVHLFO	HAPAG-LLOYD
TUI	EDDVTUIO	TUIFLY
ACX	EDFHACXA	LOADMASTER AIR CARGO
YSC	EDHIAIBX	AIRBUS GERMANY
FIN	EFHKFINO	Finnair
MYT	EGCCMYTX	
MON	EGGWMONO	MONARCH
JPN	EGKKJPNX	JETPLAN JEPPESEN UK
VIR	EGKKVIRW	VIRGIN ATLANTIC .
FBO	EGLFFBOX	TAG
YSO	EGLFYVYD	TGC AVIATION SERVICES
YPN	EGLLBAWC	BAW
BAW	EGLLBAWH	BRITISH AIRWAYS
YQT	EGLLIRAX	IRAN NATIONAL AIRLINES
KAC	EGLLKACX	IRVING OIL
YAB	EGLLSVAX	SAUDI ARABIAN AIR
TGC	EGLLTGCX	TG AVIATION
GSS	EGSSGSSX	GLOBAL SUPPLY SYSTEMS
YSE	EGULYWYO	RAF LAKENHEATH
YKB	EGVNYWYO	RAF BRIZE NORTON AIRPORT FBOS
ZTF	EHAMKLMF	KLM
YPJ	EHAMKLMK	KLM

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KLM	EHAMKLMR	KLM ROYAL DUTCH AIRLINES
MPH	EHAMMPHO	MARTIN AIR
EIN	EIDWEINU	AER LINGUS
CPU	EKBICPUF	AIR SUPPORT SERVICES
YRF	EKCHSASF	SCANDINAVIAN AIRLINES
SAS	EKCHSASW	SCANDINAVIAN AIRLINES
BAW	ELAXBAWO	BRITISH AIRWAYS PLC
CLX	ELLXCLXO	CARGOLUX AIRLINES INTERNATIONAL
YAC	EPWAFDPX	FLIGHT DISPATCH SERVICES
LOT	EPWALOTO	LOT POLSKIE
JKK	ESYYJKKO	SPANAIR
YAD	EUCBZMFP	
YAE	EUCHZMFP	
YRJ	FAJSNFPL	SOUTH AFRICA ATNS
YPC	FAJSSAAR	SOUTH AFRICAN AIRWAYS
YND	FAJSZPZX	JOHANNESBURG INTL ARO
YSR	FAORZPZX	O. R. TAMBO INTL ARO
YSQ	FNLUZPZX	QUATRO DE FEVEREIRO INTL ARO
YMZ	GMMNZPZX	CASABLANCA INTL ARO
DKR	GOOYZPZX	LEOPOLD SEDAR SENGHOR INTL ARO
TCV	GVNPTCVO	TRANSPORTES AEREOS DE CABO VERDE
ETH	HAABEALD	ETHIOPIAN AIRLINES
ETH	HAABYNYX	ETHIOPIAN AIRLINES
MSR	HECAMSRO	EGYPT AIR
YAN	HECAZPZX	Cairo Int'l ARO
AAH	KA AHYYXX	ALOHA AIRLINES AISR (BULK)
ASH	KABQASHD	MESA AVIATION SERVICES
ABQ	KABQYFYA	ALBUQUERQUE, NM
ABQ	KABQYFYX	AFSS / LMCO
ACY	KACYXXYX	ATLANTIC CITY ANG NJ
AGU	KAGUYXXYX	TUCSON ANG AZ MBO
AIH	KAIHYXXYX	ALPINE AIR AISR (BULK)
AIP	KAIPYYXX	ALPINE AIR AIRLINES AISR (BULK)
AIS	KAISYFYA	AIS
AMF	KAMFYXXYX	AMERIFLIGHT AIR AISR (BULK)
AMX	KAMXXYYXX	AERO VIAS DE MEXICO AISR (BULK)
ANB	KANBYFYA	ANNISTON, AL
ANB	KANBYFYX	
AND	KANDYFYA	ANDERSON, SC
AND	KANDYFYX	
FDP	KANPFDPS	FDS AERO

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AOO	KAOOYFYA	ALTOONA, PA
AOO	KAOOYFYX	
CTT	KAPACTTD	CUSTOM AIR TRANSPORT
APC	KAPCYYXX	AIRPAC AISR (BULK)
OPF	KARBOPFX	AVFINITY
ARF	KARFYGZX	CARF UNIT ATCSCC
XAA	KARIXAAN	ARINC DIRECT
ASE	KATLASED	ARINC
ASQ	KATLASQD	ATLANTIC SOUTHEAST AIRLINES
DAL	KATLDALQ	DELTA AIRLINES
GTI	KATLGTID	ATLAS AIR INC.
YRX	KATLKALO	KAL
WOA	KATLWOAD	WORLD AIRWAYS
AWI	KATWAWID	AIR WISCONSIN
YKA	KAUSCJAX	CANJET AIRLINES
UTX	KAUSUTXX	AVFINITY
ZXB	KAUSZXB	AvFinity
AVN	KAVNYXX	AIR VANUATU BULK
AYJ	KAYJYXX	LINCOLN ARMY NG NE MBO
GAA	KBDLGAAD	BUSINESS EXPRESS
TCF	KBDLTCFD	SHUTTLE AMERICA CORPORATION
BDR	KBDRYFYA	BRIDGEPORT, CT
BDR	KBDRYFYX	
XWS	KBEDXWSI	WSI CORPORATION
BEZ	KBEZYYXX	KINGFISHER AIR SERVICES
XBG	KBGRXBGR	BANGOR, CITY OF
BGR	KBGRYFYA	BANGOR, ME
BGR	KBGRYFYX	
MEJ	KBHMMEJD	MEDJET INTERNATIONAL INC.
HAE	KBLIHAEX	KENMORE CREW LEASING
BLS	KBLSYYXX	BEARSKIN LAKE AIR SERVICES AISR (BULK)
BMJ	KBMJYYXX	BEMIDJI AIRLINES AISR (BULK)
BNA	KBNAFYA	NASHVILLE, TN
BNA	KBNAFYX	
BOI	KBOIFYA	BOISE, ID
BOI	KBOIFYX	
SJF	KBOMSJFX	SKYAIR JET
BRG	KBRGYXX	BERING AIR (BULK)
BTB	KBTBYXX	AIS TEST LOCATION 1ST
BTV	KBTVYFYA	BURLINGTON, VT
BTV	KBTVYFYX	

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BUF	KBUFYFYA	BUFFALO, NY
BUF	KBUFYFYX	
ACC	KBWIACCX	AVCARD
YBL	KBWIXAAA	ADir SSC
YBM	KBWIXAAB	ARINC EMEA
YBN	KBWIXAAC	Albinati Aeronautics SA
YBO	KBWIXAAD	Beijing Capital Airlines Co LTD
YBP	KBWIXAAE	Execaire
YBQ	KBWIXAAF	United Aviation Services
YBR	KBWIXAAG	Tulpar Air Ltd.
YBS	KBWIXAAH	Alpine Jet Service SA
YBT	KBWIXAAI	Sundt Air AS
YBU	KBWIXAAJ	Triple Alpha GmbH
YBV	KBWIXAAK	Air Logistic
YBW	KBWIXAAL	International Jet Mgmt GmbH
YBX	KBWIXAAM	Dana Executive Jets, LLC.
YBY	KBWIXAAN	APM Investmentimentos
YBZ	KBWIXAAO	JSC Aircompany Aero-Charter
YCA	KBWIXAAP	BONAIR
YCB	KBWIXAAQ	ARINC
YCC	KBWIXAAR	Carre Aviation Ltd
YCD	KBWIXAAS	Dr. Langner Verwaltung
YCE	KBWIXAAT	Air Alsie
YCF	KBWIXAAU	The World Is Yours, LTD
YCG	KBWIXAAV	ACM AIR CHARTER GMBH
YCH	KBWIXAAW	Nomad Aviation
YCI	KBWIXAAX	ARINC
YCJ	KBWIXAAY	Jet Aviation VPCGO
YCK	KBWIXAAZ	Jet Aviation VPBZC
BXR	KBXRYXX	REDDING AERO ENTERPRISES AIRS (BULK)
BYS	KBYSYXX	BICYCLE LAKE AAF CA MBO
YCL	KCBEXAAA	Skytrooper Charter Philippines, Inc.
YCM	KCBEXAAB	BSI Holding Co. , Ltd
YCN	KCBEXAAC	Rely AS
YCO	KCBEXAAD	Elitavia
YCP	KCBEXAAE	ARINC
YCQ	KCBEXAAF	ARINC
YCR	KCBEXAAG	ARINC
YCS	KCBEXAAH	ARINC
YCT	KCBEXAAI	ARINC
YCU	KCBEXAAJ	ARINC

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YCV	KCBEXAAK	ARINC
YCW	KCBEXAAL	ARINC
YCX	KCBEXAAM	ARINC
YCY	KCBEXAAN	ARINC
YCZ	KCBEXAAO	ARINC
YDA	KCBEXAAP	ARINC
YDB	KCBEXAAQ	ARINC
YDC	KCBEXAAR	ARINC
YDD	KCBEXAAS	ARINC
YDE	KCBEXAAT	ARINC
YDF	KCBEXAAU	ARINC
YDG	KCBEXAAV	ARINC
YDH	KCBEXAAW	ARINC
YDI	KCBEXAAX	ARINC
CDC	KCDCYFYA	CEDAR CITY, UT
CDC	KCDCYFYX	
DCC	KCFCZDZX	ETMS
CFS	KCFSYYXX	EMPIRE AIRWAYS AISR (BULK)
YDJ	KCGEXAAA	ION TIRIAC AIR
YDK	KCGEXAAB	Serenity Sky - FGPSA
YDL	KCGEXAAC	Wijet
YDM	KCGEXAAE	Royal Moroccan Air Force
YDN	KCGEXAAG	Business Aviation Asia, Ltd.
YDO	KCGEXAAH	'Larsen and Turbro Aviation Services, Ltd.
YDP	KCGEXAAI	SEDECO
YDQ	KCGEXAAJ	State Air Company Berkut
YDR	KCGEXAAK	Regional Airlines
YDS	KCGEXAAM	Mokbel International Group
YDT	KCGEXAAN	Premium Jet AG
YDU	KCGEXAAO	VIP Jet Ltd.
YDV	KCGEXAAP	Perfect Aviation Portugal S.A.
YDW	KCGEXAAR	EM Participacoes E Administracao
YDX	KCGEXAAS	Volkswagen AG
YDY	KCGEXAAT	Route 450 Investments Ltd
YDZ	KCGEXAAU	Jaguar Jets
YEA	KCGEXAAV	Jindal Steel And Power Limited
YEB	KCGEXAAW	Silver Cloud Air, GmbH
YEC	KCGEXAAX	Galvao Investimentos S.A.
YED	KCGEXAAY	MNG Jet A.S.
CGJ	KCGJYXYX	MC CONNELL ANG BASE OPS KS
YEE	KCGSXAAA	ARINC

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YEF	KCGSXAAB	Alba Servizi Aerotrasporti SpA
YJF	KCGSXAAC	TOYO Aviation
YEH	KCGSXAAD	Synair GIE
YEI	KCGSXAAE	Open Sky Aviation S.A.L.
YEJ	KCGSXAAF	Elite Air Moscow
YEK	KCGSXAAG	Mid East Jet Saudi Arabia Ltd.
YEL	KCGSXAAH	Presidentail Air Fleet
YEM	KCGSXAAI	BLOM CGR
YEN	KCGSXAAJ	Europ Star Aircraft GmbH
YEO	KCGSXAAK	Tag Aviation Asia Ltd - VPCHL
YEP	KCGSXAAL	Waylawn Ltd.
YEQ	KCGSXAAAM	Tyrolean Jet Service Nfg GmbH & CO KG
YER	KCGSXAAAN	Lindsay Keats LLC
YES	KCGSXAAP	SIRIO s.p.a.
YET	KCGSXAAQ	Jet Link LTD
YEU	KCGSXAAAR	Shino Aviation (MASH)
YEV	KCGSXAAAS	Rotana Jet
YEW	KCGSXAAU	Skyfree Ltd
YEX	KCGSXAAV	Religare Aviation Ltd
YEY	KCGSXAAW	Flying Service - PHAJX
YEZ	KCGSXAAAX	Arkia Israeli Airline Ltd.
YFA	KCGSXAAAY	Lisglynn Limited
YFB	KCGSXAAZ	ARINC
AFL	KCHIAFLA	AEROFLOT
aal	KCHIUALD	UNITED AIR LINES INC.
UAL	KCHIUALE	UNITED AIR LINES INC.
UAL	KCHIUALS	UNITED AIR LINES INC.
CLE	KCLEYFYA	CLEVELAND, OH
CLE	KCLEYFYX	
CDL	KCLTUSAY	C C AIR INC. D/B/A/US AIRWAYS EXPRESS
EJA	KCMHEJAA	'NETJETS, INC. 'C3120
SOO	KCMHSHOD	SOUTHERN AIR
CON	KCONYYXX	CONTINENTAL OIL CO AISR (BULK)
COS	KCOSYXYX	COLORADO SPRINGS MUNI BASE OPS
COU	KCOUYFYA	COLUMBIA, MO
COU	KCOUYFYX	AFSS / LMCO
CPR	KCPRYFYA	CASPER, WY
CPR	KCPRYFYX	
CPT	KCPTYXX	CORPORATE AIR AISR (BULK)
CRA	KCRAYYXX	RICHLAND AVIATION (BULK)
CSQ	KCSQYYXX	I.B.C. AIRWAYS AISR (BULK)

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COM	KCVGCOMD	COMAIR, INC.
DHL	KCVGDHLW	ASTAR AIR CARGO INC.
AAG	KCVTAAGO	AIR ATLANTIQUE
CXO	KCXOYFYA	CONROE, TX
CXO	KCXOYFYX	AFSS / LMCO
SWA	KDALSWAD	SOUTHWEST AIRLINES
JIA	KDAYJIAD	PSA AIRLINES INC.
DAY	KDAYYFYA	DAYTON, OH FSS NAIMES/FS21 BCKUP
DAY	KDAYYFYX	DAYTON, OH FSS NAIMES/FS21
YFC	KDCAXAAA	Swiss ACM Ltd
YFD	KDCAXAAB	Executive Airlines
YFE	KDCAXAAC	GAFI
YFF	KDCAXAAD	ARINC
YFG	KDCAXAAE	ARINC
YFH	KDCAXAAF	VistaJet Luftfahrtunternehmen GmbH
YFI	KDCAXAAG	Dubai Air Wing
YFJ	KDCAXAAH	Dasnair SA
YFK	KDCAXAAI	'Windrose Air Jetcharter GmbH/Maint Department
YFL	KDCAXAAJ	Saudi Oger LTD
YFM	KDCAXAAK	NOCLAF Limited
YFN	KDCAXAAL	Gain Jet
YFO	KDCAXAAM	Avcon Jet AG
YFP	KDCAXAAN	AJW Walter Aviation Ltd
YFQ	KDCAXAAO	ARINC
YFR	KDCAXAAP	ARINC
YFT	KDCAXAAQ	ARINC
YFU	KDCAXAAR	E.I.E. Eagle
YFV	KDCAXAAS	ARINC
YFW	KDCAXAAT	ExecuJet Europe
YFX	KDCAXAAU	ARINC
YFY	KDCAXAAV	ARINC
YFZ	KDCAXAAW	TAG Aviation Espana,S.L.
YGA	KDCAXAAX	Dominion Air Limited
DCA	KDCAYFYA	LEESBURG, VA
DCA	KDCAYFYX	
DCM	KDCMYYXX	FLTPLAN BULK
FFT	KDENFFTD	FRONTIER AIRLINES
SSX	KDENSHAD	LYNX AVAITION
YMQ	KDENXLDB	JEPPESEN DATAPLAN
ZWP	KDENXLDG	JEPPESEN DATAPLAN
ZWO	KDENXLDI	JEPPESEN DATAPLAN

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ZWQ	KDENXLDS	JEPPESEN DATAPLAN
ZTD	KDENXLDT	JEPPESEN DATAPLAN
DEN	KDENYFYA	DENVER, CO
DEN	KDENYFYX	
DKT	KDKTYXX	SIOUX FALLS AVIATION AISR (BULK)
DLF	KDLFYXYA	
DLH	KDLHYXYX	
DRI	KDRIYFYA	DERIDDER, LA
DRI	KDRIYFYX	AFSS / LMCO
DSM	KDSMYXYX	132ND FIGHTER WING DES MOINES, IA
NKS	KDTWNKSD	SPIRIT AIRLINES
CLU	KDUSCLUX	CAROLUS
EKN	KEKNYFYA	ELKINS, WV
EKN	KEKNYFYX	
CXP	KEKOCXPD	CASINO EXPRESS
EMP	KEMPYYXX	EMPIRE AIR SERVICE AISR(BULK)ROCH.,NY
EOD	KEODYXYX	SABRE HELIPORT FORT CAMPBELL TN.
EPS	KEPSYYXX	EPPS AIR SERVICE AISR (BULK)
ERH	KERHYYXX	ERA AVIATION (BULK)
YGB	KESNXAAA	ARINC
YGC	KESNXAAB	ARINC
YGD	KESNXAAC	Avag Air GmbH
YGE	KESNXAAE	Air Pilatus A.V.V.
YGF	KESNXAAG	High Wing Aviation Ltd
YGG	KESNXAAH	'IAPS International Flight Planning Svcs GmbH
YGH	KESNXAAI	Borajet Havacilik
YGI	KESNXAAJ	ARINC
YGJ	KESNXAAK	TAG Aviation Espana - ECKBR
YGK	KESNXAAL	'Turkish AF - Turk Hava Kuvvetleri Komutanli
YGL	KESNXAAM	Eurofly Service S.P.A.
YGM	KESNXAAN	Amjet Executive S.A.
YGN	KESNXAAO	Macau Jet International
YGO	KESNXAAP	FTC Consulting Ltd.
YGP	KESNXAAQ	Xclusive Jet Charter and Management
YGQ	KESNXAAR	FAI Rent-A-Jet AG
YGR	KESNXAAS	Air Taxi and Charter International
YGS	KESNXAAT	OMYA International AG
YGT	KESNXAAU	PrivatAir SA
YGU	KESNXAAV	Nola Aviation Ltd.
YGV	KESNXAAW	ARINC
YGW	KESNXAAY	Wings Jet

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YGX	KESNXAAZ	Douja Promotion Groupe Addoha
ZZF	KEWRAFRO	AIR FRANCE
BAW	KEWRBAWO	BRITISH AIRWAYS PLC
FOI	KEWRFOID	FLIGHT OPS INTERNATIONAL
AAV	KFATAAYD	ALLEGIANT AIR
COA	KFCFCOAU	CONTINENTAL AIR LINES INC.
FCL	KFCLYYXX	FLORIDA COASTAL AIRLINES
YGY	KFDKXAAA	Pendley Aviation
YGZ	KFDKXAAB	Acropolis Aviation
YHA	KFDKXAAC	CAT Aviation AG
YHB	KFDKXAAD	ARINC
YHC	KFDKXAAE	Jet-Link AG
YHD	KFDKXAAF	ARINC
YHE	KFDKXAAG	Princess Private Aviation
FFG	KFFGYXYX	MILWAUKEE ANG, WI MBO
AJT	KFLLAJTO	AMERIJET
DFA	KFLLDFAV	AERO COACH AVIATION
FKS	KFLLFKSF	FOCUS AIR
OJY	KFLLOJYO	FLORIDA AIR, INC.
YAS	KFLFXGWA	NavTech
ASH	KFMNASHD	MESA AVIATION SERVICES
FOD	KFODYFYA	FORT DODGE, IA AFSS BKUP
FOD	KFODYFYX	FORT DODGE, IA FSS
FTA	KFTAYYXX	FRONTIER FLYING SERVICES (BULK)
XAM	KFTWAALD	AMR SERVICES CORP.
FTW	KFTWYFYA	FT. WORTH, TX
FTW	KFTWYFYX	AFSS / LMCO
GFK	KGFKYFYA	GRAND FORKS, ND AFSSS BKUP
GFK	KGFKYFYX	GRAND FORKS, ND AFSS
GGC	KGGCYXX	CARGO 360 AIR AISR (BULK)
GGN	KGGNYXX	AIR GEORGIAN AISR (BULK)
GNV	KGNVYFYA	GAINESVILLE, FL
GNV	KGNVYFYX	
GRB	KGRBYFYA	GREEN BAY, WI
GRB	KGRBYFYX	
YMU	KGSPSTFX	JRA FLIGHT SOLUTIONS AVFINITY
GTF	KGTFYFYA	GREAT FALLS, MT
GTF	KGTFYFYX	AFSS / LMCO
GTI	KGTIYFYX	ATLAS AIR INC.
GTX	KGTXYYXX	GTA AIR AISR (BULK)
GWO	KGWOYFYA	GREENWOOD, MS

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GWO	KGWOYFYX	AFSS / LMCO
ESS	KHDQESSD	EOS AIRLINES
YAR	KHDQFOID	FLIGHT OPS INTERNATIONAL
PRH	KHDQPRHO	PRO AIR INC.
CJC	KHEFCJCD	COLGAN AIR
HHR	KHHRYFYA	HAWTHORNE, CA
HHR	KHHRYFYX	
YRQ	KHKGWAX	BUSINESS AVIATION ASIA
MRO	KHLNMROD	MORRISON FLYING SERVICE
HON	KHONYFYA	HURON, SD AFSS BKUP
HON	KHONYFYX	HURON, SD AFSS
ARC	KHOUARCO	AIR ROUTING INT'L. CORP
ZWN	KHOUARCP	AIR ROUTING INTERNATIONAL
ARC	KHOUARCW	AIR ROUTING INT'L. CORP
ARC	KHOUARCX	AIR ROUTING INT'L. CORP
CCX	KHOUCXHX	COLT INTERNATIONAL, INC
ITP	KHOUITPX	INTERNATIONAL TRIP PLANNING SERVICES
PTX	KHOUPTXX	PRESIDIUM AVIATION
UVA	KHOUVVAX	UNIVERSAL AIRWAYS INC.
XBO	KHOUXBOO	BASEOPS INTERNATIONAL INC.
HUF	KHUFYFYA	TERRE HAUTE, IN
HUF	KHUFYFYX	
BLR	KIADBLRX	ATLANTIC COAST AIRLINES,
GCO	KIADGCOW	GEMINI AIR CARGO
PRT	KIADPRTD	PATRIOT
YHH	KIADXAAA	Air26 S.A.
YHI	KIADXAAB	GAMA Aviation Ltd.
YHJ	KIADXAAC	Triair Bermuda Ltd.
YHK	KIADXAAD	VipJets Luftfahrtunternehmen GmbH
YHL	KIADXAAE	Ocean Sky Aviation Limited
YHM	KIADXAAF	ARINC
YHN	KIADXAAG	Unitrans AVV
YHO	KIADXAAH	J and P Aviation
YHP	KIADXAAI	ARINC
YHQ	KIADXAAJ	ARINC
YHR	KIADXAAK	Air Four Spa
YHS	KIADXAAL	Viking Aviation Limited
YHT	KIADXAAM	ARINC
YHU	KIADXAAN	ARINC
YHV	KIADXAAP	Gama UK Flight Planning
YHW	KIADXAAQ	Turkish Airlines Technic Inc

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YHX	KIADXAAR	Flying Service
YHY	KIADXAAS	ARINC
YHZ	KIADXAAT	ABS Jets, a.s.
YIA	KIADXAAU	ARINC
YIB	KIADXAAV	Kompass GmbH and Co KG
YIC	KIADXAAW	'Ovlas Aircraft Finance c/o Ovlas Management
YID	KIADXAAX	Aviation Development International
YIE	KIADXAAY	Grossman Jet Service
YIF	KIADXAAZ	ARINC
XCL	KIADXCLX	CONTEL ASC
IAG	KIAGYXYX	NIAGRA FALLS, NY ARS
BTA	KIAHBTAD	EXPRESSJET AIRLINES INC.
TFI	KIAHTFIX	TRANSPORT FACILITATORS INC.
AMW	KICTAMWD	AIR MIDWEST INC.
ICT	KICTYFYA	WICHITA, KS
ICT	KICTYFYX	AFSS / LMCO
IJA	KIJAYXYX	
IKK	KIKKYFYA	KANKAKEE, IL
IKK	KIKKYFYX	
ILG	KILGYXYX	WILMINGTON ANG, DE.
ABX	KILNABXD	AIRBORNE EXPRESS,
RPA	KINDRPAY	REPUBLIC AIRLINES, INC.
CHQ	KINDUSAY	CHAUTAUQUA AIRLINES
LWD	KINTLWDD	LEISURE AIR
IPT	KIPTYFYA	WILLIAMSPORT, PA
IPT	KIPTYFYX	
ISP	KISPYFYA	ISLIP, NY
ISP	KISPYFYX	
JAN	KJANYXYX	JACKSON ANG MS MBO
JBR	KJBRYFYA	JONESBORO, AR
JBR	KJBRYFYX	AFSS / LMCO
JBS	KJBSYXYX	KNOXVILLE 134 AREP TN.
YMR	KJFKAICO	AIR INDIA
BTL	KJFKBTLD	BALTIA AIR
CRX	KJFKCRXW	CROSS AVIATION
FST	KJFKFSTO	AEROS
JFK	KJFKGDIA	GLOBAL AIRCRAFT DISPATCH
GTI	KJFKGTIW	ATLAS AIR INC.
IBE	KJFKIBEO	IBERIA - LINEAS AEREAS DE ESPANA
JBU	KJFKJBUD	JETBLUE AIRWAYS CORPORATION

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NAO	KJFKNAOW	NORTH AMERICAN AIRLINES,(JAMAICA,NY)
SAA	KJFKSAAO	SOUTH AFRICAN AIRWAYS
SWR	KJFKSWRW	SWISS INTERNATIONAL AIR LINES
XCO	KJFKXCOX	COMPUFLIGHT OPERATIONS SERVICE INC.
JYD	KJYDYXYX	MERIDIAN ARNG MS.
KAP	KKAPYYXX	HYANNIS AIR SERVICE DBA CAPE AIR AISR
KEN	KKENYYXX	KENMORE AIRLINE AISR (BULK)
LAN	KLANYFYA	LANSING, MI
LAN	KLANYFYX	
GND	KLASGNDD	GRAND AIRWAYS INC.
AVK	KLAXAVKX	AV8 HELICOPTERS
PCX	KLAXPCXX	PACIFIC AVIATION
XPR	KLAXXPRX	AIR-REP
YQU	KLAXXSFO	AEROPS
SJM	KLCKSJMD	SOUTHERN AIR TRANSPORT
LCK	KLCKYXYX	RICKENBACKER INTL BASE OPS OH
DAC	KLGBDACX	MCDONNELL DOUGLAS CORP.
PAC	KLGBPACO	POLAR AIR CARGO AIRWAYS
LGF	KLGFYXYX	YUMA LAGUNA AAF CA MBO
YNF	KLGWJFEO	
LHM	KLHMYFYX	LOCKHEED MARTIN
LIA	KLIAYYXX	LEEWARD ISLANDS AIR TRANSPORT
ATN	KLITATNX	AIR TRANSPORT INTERNATIONAL
LMT	KLMTYXYX	KINGSLEY FIELD OR MBO
LOU	KLOUYFYA	LOUISVILLE, KY
LOU	KLOUYFYX	
LYM	KLYMYYXX	KEY LIME AIR AISR (BULK)
GES	KMADGESO	GESTAIR
MCN	KMCNYFYA	MACON, GA
MCN	KMCNYFYX	
CCI	KMCOCCID	CAPITAL CARGO INTERNATIONAL
TRH	KMCOTRHD	AIRMARK AVIATION
TRS	KMCOTRSD	AIRTRAN AIRWAYS,ORLANDO, FL
ALO	KMDTALOC	PENNSYLVANIA COMMUTER
PCA	KMDTPCAC	PENYA DE L'AIRE
FDX	KMEMFDXA	FEDERAL EXPRESS CORPORATION
FDX	KMEMFDXB	FEDERAL EXPRESS CORPORATION
FDX	KMEMFDXD	FEDERAL EXPRESS CORPORATION
FDX	KMEMFDXF	FEDERAL EXPRESS CORPORATION
FLG	KMEMFLGE	PINNACLE/Express Airlines
MGE	KMGEYXYX	DOBBINS AFB GA MBO

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PRE	KMHTPREE	PRECISION AIRLINES
COA	KMIACOAX	CONTINENTAL AIR LINES INC.
FAO	KMIAFAOD	FALCON AIR EXPRESS
FBF	KMIAFBFO	FINE AIRLINES
FWL	KMIAFWLO	FLORIDA WEST INTERNATIONAL AIRWAYS
GFT	KMIAGFTD	GULFSTREAM INT'L
GTI	KMIAGTIW	ATLAS AIR INC.
YMA	KMIAIBEO	IBERIA
XTJ	KMIAXTJX	ADVANCE AVIATION SERVICES INC.
MIA	KMIAFYA	MIAMI FSS
MIA	KMIAFYX	MIAMI FSS
XDT	KMIVXDTC	DATE TRANSFORMATION CORP.
MIV	KMIVFYA	MILLVILLE, NJ
MIV	KMIVFYX	
ZZD	KMKEMEPD	MIDWEST AIRLINES
SYX	KMKESYXD	SKYWAY AIRLINES INC..
MKL	KMKLYFYA	JACKSON, TN
MKL	KMKLYFYX	AFSS / LMCO
MKU	KMKUYXX	ISLAND AIR HONOLULU, HI AISR (BULK)
MLC	KMLCYFYA	MCALESTER, OK
MLC	KMLCYFYX	AFSS / LMCO
MMV	KMMVYFYA	MCMINNVILLE, OR
MMV	KMMVYFYX	
MQY	KMQYYXX	SMYRNA ARNG TN.
MRA	KMRAYXX	MARTINAIRE AISR (BULK)
XGW	KMRYXGWX	GLOBAL WEATHER DYNMICS, INC.
CPZ	KMSPCPZD	COMPASS AIRLINES, COMPASS ROSE
MES	KMSPMESD	MESABA AIRLINES
NWA	KMSPNWAA	Northwest Airlines Inc.
NWA	KMSPNWAB	Northwest Airlines Inc.
NWA	KMSPNWAE	Northwest Airlines Inc.
NWA	KMSPNWAFF	Northwest Airlines Inc.
NWA	KMSPNWAK	Northwest Airlines Inc.
NWA	KMSPNWAN	Northwest Airlines Inc.
NWA	KMSPNWAQ	Northwest Airlines Inc.
NWA	KMSPNWAP	Northwest Airlines Inc.
NWA	KMSPNWAAS	Northwest Airlines Inc.
NWA	KMSPNWAAT	Northwest Airlines Inc.
NWA	KMSPNWAU	Northwest Airlines Inc.
NWA	KMSPNWAUV	Northwest Airlines Inc.
NWA	KMSPNWAUV	Northwest Airlines Inc.

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NWA	KMSPNWAY	Northwest Airlines Inc.
SCX	KMSPSCXO	MN AIRLINES LLC D/B/A SUN COUNTRY AIR
XKA	KMSPXKAX	KAVOURAS INC.
MSP	KMSPYXYX	MINNEAPOLIS/ST. PAUL, MN ARS
MXA	KMXAYYXX	COMPANIA MEXICANA DE AVIACION AISR(BLK)
NBA	KNBAYXYX	118TH OSF NASHVILLE, TN
NBC	KNBCYXYX	BEAUFORD MCAS, SC MBO
NBG	KNBGYXYX	NEW ORLEANS NAS, LA.
NDZ	KNDZYXYX	WHITING FIELD MILTON FL.
NFF	KNFFYWYX	JACKSONVILLE NAS, (FACSFAC) FL.
NFW	KNFWYXYX	FT WORTH NAS, CARSWELL FIELD TX.
YIG	KNHKXAAA	ARINC
YIH	KNHKXAAB	MSC Aviation
YII	KNHKXAAC	ARINC
YIJ	KNHKXAAD	ARINC
YIK	KNHKXAAE	Arab Wings
YIL	KNHKXAAF	ARINC
YIM	KNHKXAAG	Independent Aviation Sdn Bhd
YIN	KNHKXAAH	ARINC
YIO	KNHKXAAI	Government of the Republic of Botswana
YIP	KNHKXAAJ	EISADEMO
YIQ	KNHKXAAK	SK Telecom
YIR	KNHKXAAL	ARINC
YIS	KNHKXAAM	Euraviation SRL
YIT	KNHKXAAN	Metrojet LTD
YIU	KNHKXAAO	ARINC
YIV	KNHKXAAP	ARINC
YIW	KNHKXAAQ	Air Niugini Limited
YIX	KNHKXAAAR	Presidencia De La Nacion Argentina
YIY	KNHKXAAS	TAG Aviation UK Limited
YIZ	KNHKXAAT	ARINC
YJA	KNHKXAAU	Bharat Hotels LTD
YJB	KNHKXAAV	ARINC
YJC	KNHKXAAX	ARINC
YJD	KNHKXAAAY	Fly International Airways
YJE	KNHKXAAZ	ARINC
N WMS	KNKAWX	WMSC TTY
NLF	KNLFYXYX	WESTAIR AVIATION AISR (BULK)
AIE	KNYCAIEX	Air Inuit Canada
OAK	KOAKYFYA	OAKLAND, CA. FSS BKUP

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OAK	KOAKYFYX	OAKLAND, CA. FSS
OBI	KOBIYXYX	AIS TEST LOCATION 3RD
OLU	KOLUYFYA	COLUMBUS, NE
OLU	KOLUYFYX	
OPT	KOPTYYXX	OPTION AIRLINES CLEVELAND,OH AISR(BULK)
OQU	KOQUYXYX	KINGSTON ANG
ZTB	KORDIBED	IBERIA
ZZB	KORDIBEO	IBERIA - LINEAS AEREAS DE ESPANA
XOR	KORDXORD	
OSH	KOSHYFYA	OSHKOSH, WI. AIR SHOW
EIA	KPDXEIAO	EVERGREEN INTERNATIONAL AIRLINES
QXE	KPDXQXED	HORIZON AIRLINES, INC.
PEO	KPEOYXYX	PEORIA ANG IL MBO
GWY	KPHLGWYO	USA 3000 AIRLINES
BAW	KPHXBAWO	BRITISH AIRWAYS PLC
SWJ	KPHXSWJD	STATESWEST AIRLINES INC.
PHX	KPHXYXYX	PHOENIX ANG SKY HARBOR AZ.
PIE	KPIEYFYA	ST PETERSBUG, FL FSS BACKUP
PIE	KPIEYFYX	ST PETERSBUG, FL FSS
JTN	KPITJTND	JETTRAIN CORPORATION
YPE	KPITUSAE	US AIRWAYS
UCA	KPLBUCAD	COMMUTAIR AKA CHAMPLAIN ENTERPRISES
PNM	KPNMYFYA	PRINCETON, MN
PNM	KPNMYFYX	
PRC	KPRCYFYA	PRESCOTT, AZ
PRC	KPRCYFYX	
PWC	KPWCYXX	PRATT AND WHITNEY CORP
YQV	KQSMXAAT	ARINC
RAL	KRALYFYA	RIVERSIDE, CA
RAL	KRALYFYX	
RBY	KRBYYYXX	VISION AIRLINES
RCT	KRCTYYXX	ARCTIC TRANSPORT BULK
JEX	KRDUJEXD	JAL EXPRESS CO. LTD.
RDU	KRDUYFYA	RALEIGH, NC
RDU	KRDUYFYX	'
RYN	KRFDRYNZ	RYAN AVIATION
RIU	KRIUYFYA	RANCHO MURRIETA, CA
RIU	KRIUYFYX	
RMO	KRMOYYXX	MORRISON FLYING SERVICE (BULK)
ROA	KRNOROAD	RENO AIR, INC.
RNO	KRNOYFYA	RENO, NV

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RNO	KRNOYFYX	
PDC	KROAPDCD	POTOMAC AIR INC.
ROE	KROEYXYX	BIRMINGHAM ANG AL MBO
RVD	KRVDYYXX	VIRGIN AMERICA (BULK)
SAN	KSANYFYA	SAN DIEGO, CA
SAN	KSANYFYX	
KYC	KSAVKYCO	AV ATLANTIC
SAV	KSAVYXYX	SAVANNAH ANG GA MBO
PDT	KSBYUSAY	PIEDMONT AIRLINES
ZZQ	KSDFUPSA	UNITED PARCEL SERVICE
ZZZ	KSDFUPSB	UNITED PARCEL SERVICE
ZZJ	KSDFUPSC	UNITED PARCEL SERVICE
ZWD	KSDFUPSD	UNITED PARCEL SERVICE
ZZX	KSDFUPSE	UNITED PARCEL SERVICE
ZZW	KSDFUPSF	UNITED PARCEL SERVICE
ZZV	KSDFUPSG	UNITED PARCEL SERVICE
ZZU	KSDFUPSH	UNITED PARCEL SERVICE
ZZT	KSDFUPSI	UNITED PARCEL SERVICE
ZXV	KSDFUPSJ	UNITED PARCEL SERVICE
ZZS	KSDFUPSK	UNITED PARCEL SERVICE
ZZR	KSDFUPSL	UNITED PARCEL SERVICE
UPS	KSDFUPSM	UNITED PARCEL SERVICE
ZXW	KSDFUPSN	UNITED PARCEL SERVICE
ZZN	KSDFUPSO	UNITED PARCEL SERVICE
ZXX	KSDFUPSP	UNITED PARCEL SERVICE
ZZP	KSDFUPSQ	UNITED PARCEL SERVICE
ZZO	KSDFUPSR	UNITED PARCEL SERVICE
ZXY	KSDFUPSS	UNITED PARCEL SERVICE
ZXZ	KSDFUPST	UNITED PARCEL SERVICE
ZWE	KSDFUPSU	UNITED PARCEL SERVICE
ZWF	KSDFUPSV	UNITED PARCEL SERVICE
ZZL	KSDFUPSX	UNITED PARCEL SERVICE
UPS	KSDFUPSY	UNITED PARCEL SERVICE
ZZK	KSDFUPSZ	UNITED PARCEL SERVICE
SDF	KSDFYXYX	LOUISVILLE ANG KY
ASA	KSEAASAB	ALASKA AIRLINES
ASA	KSEAASAD	ALASKA AIRLINES
SEA	KSEAYFYA	SEATTLE, WA
SEA	KSEAYFYX	
ZZE	KSFOAFRK	AIR FRANCE
YQW	KSFOJOEX	JET-OPS EUROPE

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YQX	KSFOVRDX	VIRGIN AMERICA
XAO	KSFOXAOX	AIRLINE OPERATIONS SERVICES
XLD	KSFOXLDI	JEPENSSEN DATA PLAN, INC.
XSF	KSFOXSFO	AEROPS
SGF	KSGFYXYX	AIS TEST LOCATION
SGH	KSGHYXYX	SPRINGFIELD, OH ANG
SKW	KSGUSKWD	SKY WEST AIRLINES
SJT	KSJTIFYA	SAN ANGELO, TX
SJT	KSJTIFYX	AFSS / LMCO
MSS	KSLCMSSD	MORRIS AIR SERVICE
NAD	KSLCYTYX	GROUP CODE TO SLC NADIN
K NAD	KSLCYTYX	GROUP CODE TO SLC NADIN
K PSU	KSLCYTYX	GROUP CODE TO SLC NADIN (FOR ALL UPS)
SLI	KSLIYXYX	LOS ALAMITOS AAF CA MBO
XGS	KSNAXGSX	GLOBAL SYSTEMS, INC.
SPI	KSPIYXYX	SPRINGFIELD, IL ANG
SPS	KSPSYXYA	
GLA	KSPWGLAD	GREAT LAKES AIRLINES
SRP	KSRPYYXX	AISR (BULK)
GJS	KSTLGJSO	GOJET AIRLINES
LOF	KSTLLOFE	TRANS STATES AIRLINES
STL	KSTLYFYA	ST. LOUIS, MO
STL	KSTLYFYX	
STP	KSTPYXYX	ST. PAUL ANG MN
SUX	KSUXYXYX	185TH ARW CMD POST SIOUX CITY IA
TAH	KTAHYXYX	AIS TEST LOCATION 3RD
TEA	KTEAYYXX	EXECUTIVE TURBINE AISR (BULK)
TNM	KTNMYXYX	MOUNTAIN AIR CARGO AISR (BULK)
AAL	KTULAALD	AMERICAN AIRLINES
ARG	KTULARGD	AEROLINEAS ARGENTINAS
ATL	KTULATLD	AEROCENTRAL SA DE CV
CEA	KTULCEAD	CORPORATE EXPRESS AIRLINES
EXK	KTULEXKD	EXECUTIVE AIRLINES
MEP	KTULMEPD	MIDWEST AIRLINE INC.
PIA	KTULPIAD	PAKISTAN INT'L AIRLINES
SYM	KTULSYMD	ARINC
AWE	KTULUSAD	AMERICA WEST AIRLINES
USA	KTULUSAD	US AIRWAYS INC.
TUL	KTULYXYX	AIS TEST LOCATION 3RD
TVD	KTVDYXYX	AEROFLIGHT AVIATION
UNF	KUNFYXYX	UNION FLIGHTS AISR (BULK)

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UPS	KUPSYFYX	UNITED PARCEL SERVICE
USC	KUSCYYXX	AIRNET SYSTEMS AISR (BULK)
PCF	KVNYPFCX	Pacific Coast Forecasting
VOI	KVOIYYXX	VUELA BULK
VOK	KVOKYXYX	VOLK FIELD ANG CAMP DOUGLAS WI.
WAE	KWAEYYXX	WESTERN AIR EXPRESS AIRLINES AISR(BULK)
WAV	KWAVYYXX	WARBELOWS AIR VENTURES (BULK)
WTV	KWTVYYXX	WESTERN AVIATORS (BULK)
XAS	KXASYFYA	
K XFE	KXFEYFYX	GROUP TO SW REGION AFSS
K XFM	KXFMYXYX	GROUP TO BAD DYS FSI LTS NFW SPS TIK
K XXJ	KXXJYFYX	GROUP-TO ADJ AISR'S AND MLC,SJT,FTW
CKS	KYIPCKSH	KALITTA AIR LLC
TMM	KYIPTMMD	TRAFFIC MANAGEMENT CORP
XNS	KYKFXNSD	NAVTECH SYSTEMS SUPPORT INC.
YNG	KYNGYXYX	YOUNGTOWN ANG OH MBO
YPV	KZABZRZA	ZAB AISR
YPV	KZABZRZB	ZAB AISR
YPV	KZABZRZC	ZAB AISR
YPV	KZABZRZX	ZAB AISR
YPW	KZAUZRZA	ZAU AISR
YPW	KZAUZRZB	ZAU AISR
YPW	KZAUZRZC	ZAU AISR
YPW	KZAUZRZX	ZAU AISR
YPX	KZBWZRZA	ZBW AISR
YPX	KZBWZRZB	ZBW AISR
YPX	KZBWZRZC	ZBW AISR
YPX	KZBWZRZX	ZBW AISR
YPY	KZDCZRZA	ZDC AISR
YPY	KZDCZRZB	ZDC AISR
YPY	KZDCZRZC	ZDC AISR
YPY	KZDCZRZX	ZDC AISR
YPZ	KZDVZRZA	ZDV AISR
YPZ	KZDVZRZB	ZDV AISR
YPZ	KZDVZRZC	ZDV AISR
YPZ	KZDVZRZX	ZDV AISR
YQA	KZFWZRZA	ZFW AISR
YQA	KZFWZRZB	ZFW AISR
YQA	KZFWZRZC	ZFW AISR
YQA	KZFWZRZX	ZFW AISR
YQB	KZHUZRZA	ZHU AISR

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YQB	KZHUZRZB	ZHU AISR
YQB	KZHUZRZC	ZHU AISR
YQB	KZHUZRZX	ZHU AISR
YQC	KZIDZRZA	ZID AISR
YQC	KZIDZRZB	ZID AISR
YQC	KZIDZRZC	ZID AISR
YQC	KZIDZRZX	ZID AISR
YQD	KZJXRZA	ZJX AISR
YQD	KZJXRZB	ZJX AISR
YQD	KZJXRZC	ZJX AISR
YQD	KZJXRZX	ZJX AISR
YQE	KZKZRZA	ZKC AISR
YQE	KZKZRZB	ZKC AISR
YQE	KZKZRZC	ZKC AISR
YQE	KZKZRZX	ZKC AISR
YQF	KZLAZRZA	ZLA AISR
YQF	KZLAZRZB	ZLA AISR
YQF	KZLAZRZC	ZLA AISR
YQF	KZLAZRZX	ZLA AISR
YQH	KZLCZRZA	ZLC AISR
YQH	KZLCZRZB	ZLC AISR
YQH	KZLCZRZC	ZLC AISR
YQH	KZLCZRZX	ZLC AISR
YQI	KZMAZRZA	ZMA AISR
YQI	KZMAZRZB	ZMA AISR
YQI	KZMAZRZC	ZMA AISR
YQI	KZMAZRZX	ZMA AISR
YQJ	KZMEZRZA	ZME AISR
YQJ	KZMEZRZB	ZME AISR
YQJ	KZMEZRZC	ZME AISR
YQJ	KZMEZRZX	ZME AISR
YQK	KZMPZRZA	ZMP AISR
YQK	KZMPZRZB	ZMP AISR
YQK	KZMPZRZC	ZMP AISR
YQK	KZMPZRZX	ZMP AISR
ZCN	KZNYZRZA	ZNY AISR
ZCN	KZNYZRZB	ZNY AISR
ZCN	KZNYZRZC	ZNY AISR
ZCN	KZNYZRZX	ZNY AISR
YQM	KZOAZRZA	ZOA AISR
YQM	KZOAZRZB	ZOA AISR

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YQM	KZOAZRZC	ZOA AISR
YQM	KZOAZRZX	ZOA AISR
YQN	KZOBZRZA	ZOB AISR
YQN	KZOBZRZB	ZOB AISR
YQN	KZOBZRZC	ZOB AISR
YQN	KZOBZRZX	ZOB AISR
YQO	KZSEZRZA	ZSE AISR
YQO	KZSEZRZB	ZSE AISR
YQO	KZSEZRZC	ZSE AISR
YQO	KZSEZRZX	ZSE AISR
YQP	KZTLZRZA	ZTL AISR
YQP	KZTLZRZB	ZTL AISR
YQP	KZTLZRZC	ZTL AISR
YQP	KZTLZRZX	ZTL AISR
YRN	LEMDIBED	IBERIA
AEA	LEPAAEAO	AIR EUROPA
IWD	LEPAIWDO	IBERWORLD
YRS	LFBOAIBK	AIRBUS INDUSTRIE
YRT	LFBOAIBN	AIRBUS INDUSTRIE
AIB	LFBOAIBO	AIRBUS INDUSTRIE
CTM	LFOACTMA	COTAM
AFR	LFPGAFRW	AIR FRANCE
ZZG	LFPGYEYX	AIR FRANCE
CRL	LFPOCRLO	CORSE AIR
ZWJ	LGAVOALO	OLYMPIC AIRLINES
AZA	LIRFAZAW	ALITALIA
BPA	LIRFBPAO	BLUE PANORAMA
ABP	LKPRABPX	ABS JETS
YMT	LKPRABPY	ABS JETS
YTA	LKPRNAVA	NAV FLIGHT PLANNING
YTB	LKPRNAVB	NAV FLIGHT PLANNING
YTC	LKPRNAVC	NAV FLIGHT PLANNING
YTD	LKPRNAVD	NAV FLIGHT PLANNING
YTE	LKPRNAVE	NAV FLIGHT PLANNING
YTF	LKPRNAVF	NAV FLIGHT PLANNING
YTG	LKPRNAVG	NAV FLIGHT PLANNING
YTH	LKPRNAVH	NAV FLIGHT PLANNING
YTI	LKPRNAVI	NAV FLIGHT PLANNING
YTJ	LKPRNAVJ	NAV FLIGHT PLANNING
YTK	LKPRNAVK	NAV FLIGHT PLANNING
YTL	LKPRNAVL	NAV FLIGHT PLANNING

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YTN	LKPRNAVN	NAV FLIGHT PLANNING
YTO	LKPRNAVO	NAV FLIGHT PLANNING
YTP	LKPRNAVP	NAV FLIGHT PLANNING
YTQ	LKPRNAVQ	NAV FLIGHT PLANNING
YTR	LKPRNAVR	NAV FLIGHT PLANNING
YTS	LKPRNAVS	NAV FLIGHT PLANNING
YTT	LKPRNAVT	NAV FLIGHT PLANNING
YTU	LKPRNAVU	NAV FLIGHT PLANNING
YTV	LKPRNAVV	NAV FLIGHT PLANNING
YTW	LKPRNAVW	NAV FLIGHT PLANNING
YTX	LKPRNAVX	NAV FLIGHT PLANNING
YTZ	LKPRNAVZ	NAV FLIGHT PLANNING
TVS	LKPRTVSX	SKYTRAVEL
ELY	LLBGELYW	'EI AL 'B0110
ELY	LLBGELYX	EL AL
TLV	LLBGYDYX	BEN GURION INTL
AUA	LOWWAUAO	AUSTRIAN AIR
YAL	LOWWZOPP	VIENNA INTL
HFY	LPPTHFYO	'HI FLY LISBOA
NJE	LPPTNJEW	Fraction NetJet
SAT	LPPTSATW	SATA PORTUGAL
YQY	LPPTTAPO	AIR PORTUGAL
ZPZ	LPPTZPZX	LISBON ARO
DGX	LSGGDGXX	DASNAIR
FPG	LSGGFPGX	TAG AVIATION
PTI	LSGGPTIX	PRIVATAIR SWITZERLAND
ZWL	LSZHCLXA	COMLUX AVIATION
YQZ	LSZHEDWX	EDELWEISS AIR
EXH	LSZHEXHX	G5 EXECUTIVE
PJS	LSZHPJSX	JET AVIATION BUSINESS JETS
YRA	LSZHPJZX	PREMIUM JET
SAZ	LSZHSAZX	SWISS AIR-AMBULANCE
ZRH	LSZHZPZX	ZURICH INTL ARO
THY	LTBATHYW	Turkish Airlines
YPO	MBGTZTZX	TURCS AND CAICOS
PLS	MBPVZTZX	PROVIDENCIALES INTL
DCS	MDSDFYX	SANTO DOMINGO FSS
DSD	MDSZPZX	SANTO DOMINGO
GGT	MGGTZPZX	LA AURORA INT'L ARO
YNH	MHCCZQZX	CONCEPCION INTL
YMC	MHLMZPZX	RAMON VILLEDA MORALES INTL ARO

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YSD	MHTGYOYX	TONCONTIN INTL
AJM	MKJPAJMW	AIR JAMAICA
YMS	MKJPYOYX	KINGSTON INTL
YKC	MMAAXMXO	Acapulco, Guerrero
YKD	MMANXMXO	Aeropuerto del Norte, Nuevo Leon
YSA	MMASXMXO	AGUASCALIENTES INTL
YKE	MMASZTZX	Aguascalientes, Aguascalientes
YKF	MMCBXMXO	Cuernavaca, Morelos
YKG	MMCEZTZX	Ciudad del Carmen, Campeche
YKH	MMCLXMXO	Culiacan, Sinaloa
YKI	MMCMZTZX	Chetumal, Quintana Roo
YKJ	MMCNXMXO	Cd. Obregon, Sonora
YKK	MMCSXMXO	Ciudad Juarez, Chihuahua
YKL	MMCUXMXO	Chihuahua, Chihuahua
YKM	MMCVXMXO	Ciudad Victoria, Tamaulipas
CZM	MMCZXMXO	COZUMEL SENEAM
YKN	MMDOXM XO	Durango, Durango
YKO	MMGLXMXO	Guadalajara, Jalisco
YKP	MMHOXM XO	Hermosillo, Sonora
YKQ	MMIAZTZX	Colima, Colima
YKR	MMIOZTZX	Saltillo, Coahuila
YKS	MMLMXMXO	Los Mochis, Sinaloa
YKT	MMLOXM XO	Leon, Guanajuato
YKU	MMLPXMXO	La Paz, Baja California Sur
YKV	MMMAXMXO	Matamoros, Tamaulipas
MER	MMMDXM XO	MERIDA SENEAM
YKW	MMMLXMXO	Mexicali, Baja California
YKX	MMMMXMXO	Morelia, Michoacan
YKY	MMMTZTZX	Minatitlan, Veracruz
YKZ	MMMVZTZX	Monclova, Coahuila
XMO	MMMAMXO	AERO VIAS DE MEXICO
YPK	MMMAMXW	AERO MEXICO
ZZA	MMMAMXAE	COMPANIA MEXICANA DE AVIACION
YLA	MMMXXMXO	Mexico, Distrito Federal
ZXR	MMMYSLIX	AEROLITORAL
YLB	MMMYXMXO	Monterrey, Nuevo Leon
YLC	MMMZXMXO	Mazatlan, Sinaloa
YLD	MMNLXMXO	Nuevo Laredo, Tamaulipas
YLE	MMOXXMXO	Oaxaca, Oaxaca
YLF	MMPAXMXO	Poza Rica, Veracruz
YLG	MMPBXMXO	Puebla, Puebla

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YLH	MMPGZTZX	Piedras Negras, Coahuila
YLI	MMPRXMXO	Puerto Vallarta, Jalisco
YLJ	MMQTXMXO	Queretaro, Queretaro
YLK	MMRXXMXO	Reynosa, Tamaulipas
YLL	MMSDXMXO	San Jose del Cabo, Baja California Sur
YLM	MMSLXMXO	Cabo San Lucas, Baja California Sur
YLN	MMSPXMXO	San Luis Potosi, San Luis Potosi
YLO	MMTCXMXO	Torreon, Coahuila
YLP	MMTGXMXO	Tuxtla Gutierrez, Chiapas
YLQ	MMTJXMXO	Tijuana, Baja California
YLR	MMTMXMXO	Tampico, Tamaulipas
YRB	MMTOXAIJ	ABC AEROLINEAS
YLS	MMTOXMXO	Toluca, Estado de Mexico
YLT	MMTPZTZX	Tapachula, Chiapas
CUN	MMUNXMXO	CANCUN SENEAM
YLU	MMVAXMXO	Villa Hermosa, Tabasco
YLV	MMVRXMXO	Veracruz, Veracruz
YLW	MMZCZTZX	Zacatecas, Zacatecas
YLY	MMZHXMXO	Zihuatanejo, Guerrero
YLY	MMZOZTZX	Manzanillo, Colima
YMD	MNMGZPZX	MANAGUA INTL ARO
ZWC	MPTOCMPO	COMPANIA PANAMENA DE AVIACION (COPA)
YBA	MPTOYFYX	Tocumen Int'l ARO
YME	MROCZPZX	JUAN SANTAMARIA INTL ARO
SAL	MSLPZPZX	EL SALVADOR INTL ARO
TEG	MTPPYFYX	PORT-AU-PRINCE FSS
YBG	MUCCZPZX	Jardines del Rey Int'l ARO
UGM	MUGMYXYX	
UHA	MUHAZPZX	Marti International Airport ARO
UHG	MUHGPZPX	Frank Pais Int'l ARO
YNI	MUSCZPZX	ABEL SANTAMARIA INTL ARO
VRA	MUVRZPZX	JUAN GUALBERTO GOMEZ INTL ARO
YMF	MWCRYOYX	GEORGETOWN INTL
YNJ	MYNNYFYX	LYNDEN PINDLING INTL
BZE	MZBZZPZX	PHILIP S. W. GOLDSON INTL ARO
THT	NTAATHTO	AIR TAHITI
ANZ	NZAAANZO	AIR NEW ZEALAND
BAH	OBBIBAHX	BAHRAIN ROYAL FLIGHT
YAF	OEJNSVAX	SAUDI ARABIAN AIR
EJN	OEJNZPZA	Jeddah Int'l ARO
RJA	OJACJORF	ROYAL JORDANIAN

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YAH	OKBKKACO	KUWAIT AIR
ETD	OMAAETDX	UNITED ARAB EMIRATES
AUH	OMAAZPZX	ABU DHABI INTL ARO
MAM	OMAMYXYX	AL DEHFRA AIR FORCE BASE
UAE	OMDBUAEK	EMIRATES AIRLINE
ZZM	OMDBZPZX	EMIRATES AIRLINE
YBC	OMDBZTZX	Dubai Int'l ARO
QTR	OTBDQTRX	QATAR AIRWAYS
YMX	OTBDYAAF	DOHA INTL
DOH	OTBDZPZX	DOHA INTL ARO
YAI	OTBDZTZX	DOHA INTL
PAQ	PAAQYFYX	ALASKA FSS
BRW	PABRYFYX	ALASKA FSS
CDB	PACDYFYX	ALASKA FSS
DLG	PADLYFYX	ALASKA FSS
EDF	PAEDYXYX	AISR ELMENDORF USAF, AK.
EIL	PAEIYXYX	AISR EIELSON AFB. AK.
AEN	PAENYFYX	ALASKA FSS
AFA	PAFAYFYX	ALASKA FSS
FBK	PAFBYXYX	AISR WAINWRIGHT AAF, AK.
HOM	PAHOYFYX	ALASKA FSS
ILI	PAILYFYX	ALASKA FSS
AJN	PAJNYFYX	ALASKA FSS
KTN	PAKTYFYX	ALASKA FSS
MCG	PAMCYFYX	ALASKA FSS
CAL	PANCCALO	CHINA AIRLINES
LYC	PANCLLYC	LYNDEN AIR CARGO
YRD	PANCNACX	NORTHERN AIR CARGO
YAG	PANXAOS	AIRLINE OPERATIONS SERVICES
YRE	PANCXDYX	DYNAIR SERVICES
ANC	PANCYFYX	ALASKA FSS
CMQ	PANCYXYX	AISR KULIS ANG, AK.
OME	PAOMYFYX	ALASKA FSS
ORT	PAORYFYX	ALASKA FSS
OTZ	PAOTYFYX	ALASKA FSS
SCC	PASCYFYX	ALASKA FSS
SIT	PASIYFYX	ALASKA FSS
TKA	PATKYFYX	ALASKA FSS
ZZI	PAZAYFYZ	ALASKA FSS
HBK	PHBKYXYX	BARKING SANDS PMR, HI. AISR
HFO	PHFOYMYX	HONOLULU WSFO, AISR

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NJG	PHJGYWYX	
HNG	PHNGYXYX	KANEOHE BAY MCAF, HI. AISR
HAL	PHNLHALO	HAWAIIAN AIRLINES INC.
HNL	PHNLYFYA	HONOLULU, HI
HNL	PHNLYFYX	' 'S7080
EVA	RCTPEVAO	EVA AIRWAYS
YAJ	RCTPZPZX	TAIWAN TAOYUAN INT'L ARO
ZWU	RJAANCAO	NIPPON CARGO
YNE	RJBBZPZX	KANSAI INTL ARO
YPL	RJTTANAV	ALL NIPON
ANA	RJTTANAX	ALL NIPON
ZWT	RJTTJALQ	JAPAN AIR
YMY	RKSIZPZX	INCHEON INTL
AAR	RKSSAARO	ASIANA AIRLINES
KAL	RKSSKALO	KOREAN AIR LINES
PAL	RPLLPALI	PHILIPPINE AIR
YBK	SAEZZPZX	Ezeiza Int'l ARO
YSF	SBBRYOYM	BRASILIA INTL
YNK	SBBRYOYX	BRASILIA INTL
YMG	SBGLYOYX	RIO DE JANEIRO INTL
GRU	SBGRYOYX	GUARULHOS INTL
YMH	SBKPYOYX	VIRACOPOS INTL
ZWK	SBSPTAMO	TAM LINHAS AEREAS
ZWH	SCELLANW	LINEA AEREA NACIONAL DE CHILE
YBI	SCELZPZX	Santiago Int'l ARO
YSS	SEGUZPZX	JOSE JOAQUIN DE OLMEDO INTL ARO
AVA	SKBOAVAX	AVIANCA,AEROVIAS NACIONALES DE COLUMBIA
YMI	SKBOZDZX	EL DORADO INTL
BOG	SKBOZPZX	EL DORADO INTL ARO
YMJ	SKBOZTZX	EL DORADO INTL
YMK	SKBQZPZX	BARRANQUILLA INTL ARO
YSL	SKCGZPZX	RAFAEL NUNEZ INTL ARO
YML	SKRGZPZX	CORDOVA INTL ARO
YMM	SLVRZPZX	SANTA CRUZ INTL ARO
YSH	SPIMYOYX	JORGE CHAVEZ INTL
YSI	SPIMYSYB	JORGE CHAVEZ INTL
LIM	SPIMZQZX	JORGE CHAVEZ INTL
VZM	SVMIFYX	MAIQUETIA
VMI	SVMIZPZX	Simon Bolivar Int'l ARO
YMN	SVMIZTZX	SIMON BOLIVAR INTL

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GEO	SYCJZPZX	CHEDDI JAGAN INTL ARO
ANU	TAPAZPZX	V. C. BIRD INTL ARO
BGI	TBPBATOM	GRANTLEY ADAMS INTL
YPF	TFFFSTZX	FRANCE (CIVIL AVIATION AUTHORITY)
YMW	TGPYATOM	POINT SALINES INTL
SJU	TJSJYFYA	SAN JUAN, PR
SJU	TJSJYFYX	'S7080
JSJ	TJSJYXYX	SAN JUAN ANG (MUNOZ), PR
PNG	TJSJYXYX	
YMO	TLPLZPZX	HEWANORRA INTL ARO
YSJ	TNCAZPZX	QUEEN BEATRIX INTL
NCF	TNCCYFYX	CURACAO
CUR	TNCCZPZX	'HATO INT'L ARO 'B1010
PJM	TNCMZPZX	'PRINCESS JULIANA INT'L ARO 'B1010
YRM	TTPPATOM	TRINIDAD
BWA	TTPPBWAO	BWIA WEST INDIES AIRWAYS
YPQ	TTPPFAAT	TRINIDAD AND TOBAGO
POS	TTPPZPZX	PIARCO INTL ARO
TZP	TTZPZQZX	PIARCO
BDA	TXKFXHAS	L.F. WADE INTL
ZTC	UKBBAEWN	AEROSVIT
ADB	UKKMADBX	ANTONOV AIRLINES
UZB	UTTPNXX	UZBEKISTAN AIRWAYS
TSO	UUDDTMOM	Transaero Airlines
YNB	UUDDZTZX	DOMODEDOVO INTL ARO
YMP	UUEEZTZX	SHEREMETYEVO INTL
SVO	UUEUYRYA	SHEREMETYEVO INTL
KLE	UUUUKLEX	RUSAERO
YPT	UWLWIEPK	VOLGA-DNPER
YPS	UWLWIEPN	VOLGA-DNPER
AIC	VABBAICO	Air India
JAI	VABBJETX	JET AIRWAYS
CPA	VHHHCPAO	CATHAY PACIFIC AIRWAYS LTD.
YRU	VHHHFPLM	HONG KONG INTL
DEL	VIDPZPZX	INDIRA GANDHI INTL ARO
THA	VTBSTHAW	THAI AIR
YAW	VTBSZPZX	'BANGKOK INT'L ARO 'B1050
SIA	WSSSSIAX	SINGAPORE AIR
VOZ	YBBBVOZX	'VIRGIN BLUE AUSTRALIAIA 'B1050
QFA	YSSYQFAO	QANTAS
YPB	YSSYQFQO	QANTAS

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YRW	ZBAAUDCA	BEIJING CAPITAL INTL
CCA	ZBAAUDXX	AIR CHINA
YAV	ZBAAZPZX	'BEIJING CAPITAL INT'L ARO 'B1050
CSN	ZGGGUOXX	CHINA SOUTHERN AIRLINES
YRV	ZGGGZPZX	GUANGZHOU BAIYUN INTL ARO
CHH	ZJHKCHHO	HAINAN AIRLINES
GWL	ZSPDGWLX	GREAT WALL AIRLINES
YZR	ZSPDYZRX	YANGTZE RIVER EXPRESS AIRLINES
PVG	ZSPDZPZX	SHANGHAI PUDONG INTL ARO
YAO	ZSQDZPZX	Shanghai Pudong Int'l ARO

RECOMMENDED GUIDANCE FOR FPL AND RELATED ATS MESSAGES

Abbreviations

ACI	Airports Council International
ADS	Automatic Dependent Surveillance
ADS-B	Automatic Dependent Surveillance-Broadcast
ADS-C	Automatic Dependent Surveillance-Contract
AFTN	Aeronautical Fixed Telecommunication Network
AIDC	ATS Interfacility Data Communication
AIP	Aeronautical Information Publication
ANSP	Air Navigation Service Provider
AMHS	Automatic Message Handling System
APAC	Asia Pacific
APANPIRG	Asia/Pacific Air Navigation Planning and Implementation Regional Group
ASBU	Aviation System Block Upgrade
ASIOACG	Arabian Sea Indian Ocean ATS Coordination Group
ATFM	Air Traffic Flow Management
ATM	Air Traffic Management
ATS	Air Traffic Service
AUSEP	Australian Area Navigation Operations
CHG	Modification Message
CNL	Flight Plan Cancellation Message
CPDLC	Controller Pilot Data Link Communication
CPL	Current Flight Plan
DARP	Dynamic Airborne Reroute Procedure
DLA	Delay Message
EOBT	Estimated Off Block Time
FAA	United States Federal Aviation Administration
FIR	Flight Information Region
FIRBX	Crossing FIR Boundaries
FPL	Filed Flight Plan
GANP	Global Air Navigation Plan
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IFPL	Initial Flight Plan specification (EUROCONTROL)
ISPACG	Informal South Pacific ATS Coordinating Group
LOA	Letter of Agreement
RPL	Repetitive Flight Plan
RQP	Request Flight Plan Message
SID	Standard Instrument Departure
SMS	Safety Management System
STAR	Standard Terminal Arrival
UPR	User Preferred Route

1. EFFECTIVE FPL FILING

1.1 The seamless and efficient flow of air traffic across FIR boundaries is achieved, in part, by ensuring that flight plans and associated messages are transmitted, processed, and transferred between FIRs in a seamless, efficient, and consistent manner.

1.2 The methods and procedures used to file and/or originate flight plans have a residual effect on the quality of the air traffic services rendered. The introduction of duplicate or multiple flight plans, or flight plans containing erroneous information, has a direct impact on the safety and efficiency of flights within the global airspace system.

1.3 Identified sources of flight planning errors include:

- A lack of quality and consistency of filed flight plans
- The use of Repetitive Flight Plans (RPL)
- Conversion of non-compliant flight plans to the ICAO Flight Plan 2012 format
- Manual entry and manual processing of FPL and associated messages

2. Direct Submission of Flight Plan Messages

2.1. To reduce the risk of manual input errors, ANSPs according to Doc. 4444 under 11.2.1.1.1, may implement local agreements that delegate the responsibility to operators for direct transmission of movement messages via the Aeronautical Fixed Telecommunication Network (AFTN) or the Aeronautical Message Handling System (AMHS). Movement messages include FPL, Modification (CHG), Delay (DLA) and Flight Plan Cancellation (CNL).

2.2. If the ANSP had delegated the responsibility to the airlines, for originating the flight plan messages, then according to the Doc. 4444 appendix 2, page A2-3, part 2.1, the airlines will have the responsibility to correctly transmit the initial FPL as well as the related messages, to all the involved ATS units, according to the Doc. 4444, 11.2.1.1.3.

2.3. Prior to delegating responsibility for direct submission of flight plan messages, ANSPs should consider conducting a trial with new operators, using a central AFTN/AMHS address to receive the messages for initial manual validation.

2.4. ANSPs should also specify in local agreements or the AIP, any required time limits for completing the submission of movement messages (DLA and CHG) for individual flights, for example, by a time parameter prior to the Estimated Off-Block Time (EOBT).

2.5. It is preferential to use a CNL and refile the FPL as an alternative to sending multiple change messages to the same FPL or several changes within the same message

3. Similar and Multiple Flight plans errors

Similar

3.1 Improper filling procedures by resending the changed flight by the originator, instead of using the CHG or DLA, causes similar flight plans for the same flight. These causes confusion among the different ATS units that will have to select 1 flight plan (not necessarily the latest valid one consider by the airline), to update it with the surveillance information and/or on the flight transference processes.

Multiple

3.2 Multiple FPLs is a source of errors when there are 2 different FPL originators (either the airlines or the ANSP).

3.3 In order to avoid that multiple FPL are occurring on the AFTN/AMHS, the airlines will only originate and transmit the FPL, if the ANSP has delegated this responsibility according to the chapter 2 of this guide.

4. DELAY (DLA) MESSAGES

4.1. The originator should only consider sending a DLA message, if the flight is expected to be delayed by more than 30 minutes after the EOBT sent on the previous FPL. (refer to Doc 4444, 11.4.2.2.3)

4.2. If the originator is not sending a DLA message 30 minutes after the EOBT specified on the FPL, then the FPL will be automatically cancelled.

5. MODIFICATION (CHG) MESSAGES

5.1. If the originator is an airline and they're required to send a CHG with less than the time specified on the 2.3 of this guide, then they should first contact the TWR or the designated ATS unit that will coordinate the changes proposed with the involved TWR.

5.2. Changes concerning aircraft type and wake turbulence category, speed and/or cruising level shall be notified for each individual flight as early as possible and not later than 30 minutes before departure to:

- a) the ATS reporting office from the departing aerodrome and
- b) only if the FPL origination responsibility has been delegated as mentioned on the part 2.1, FPL the originator should also send the CHG message, to the other ATS units that were considered on the initial FPL.

5.3. If the FPL originator is willing to modify the ATS route or other en-route flight level, then the CHG message shall contain all the route portion and different FLs.

5.4. CHG messages should include the entire field 15 including modified information for the FPL it changes to avoid improper modification.

5.5. If the CHG message have a new ATS route with FIRs not considered on the original FPL, then the FPL should be cancelled with a CNL message and then, submit a new FPL.

6. AFTN Addresses

6.1 To reduce FPL filing discrepancies that result from erroneous addressing of aeronautical messages, ANSPs should list their AFTN addressing requirements in their Aeronautical Information Publication (AIP). Guidance related to the addressing of AFTN messages is also available in ICAO Annex 10, Volume II, Chapter 4, ICAO Docs 7910 and 8585, and ICAO regional AFTN routing directories.

7. Central Flight Plan Processing Unit

7.1 ANSPs with multiple ATS centres may consider implementing a central flight planning unit for the initial processing and distribution of FPLs. An example of central flight planning is provided by the EUROCONTROL Initial Flight Plan (IFPL) specification.

7.2 Studies undertaken by EUROCONTROL and the European Commission determined that inconsistencies in the content of flight data held by different parties for the processing of the same flight had a negative impact on the efficiency of operations within the European air traffic management system.

7.3 According to the EUROCONTROL website (see the References section), the IFPL specification defines the procedures and requirements for the provision, processing and distribution of flight plans in the pre-flight phase. The improvement of the consistency of flight-planning data has contributed to more seamless operations within the environment, enhanced safety, and has also allowed for new operational concepts to be defined for the area of air traffic flow management (AFTM).

8. Error Mitigation Procedures

8.1 Appropriate procedures are necessary for the resolution of issues resulting from messages that are not received. Part of that resolution should be to ensure that duplicate or erroneous messages are not introduced into the system. For example, if a movement message is received for an unknown FPL, the receiving unit should use the Request Flight Plan (RQP) message to request the FPL from the sending unit rather than creating its own FPL.

8.2 Where ANSPs provide FPL filing capability via the internet, a validation process should be implemented to prevent the introduction of inaccurate data from movement messages. NAV CANADA provides an example of the use of internet-based flight-plan-filing with use of their Collaborative Flight Planning System (CFPS). The application allows direct flight plan filing by pilots and/or flight-plan-filing agencies, is fully Flight Plan 2012 compliant, and completes front-end error checking that requires FPL filers to correct discrepancies before the flight plan is accepted for processing.

9. Review of State Regulations

9.1 ANSPs are encouraged to partner with the State regulators to review and align existing regulations with emerging technologies. In cases where State regulations require hand-delivered FPLs in conjunction with electronic FPLs, the amendment of such regulations may reduce human-induced discrepancies in the filing process.

9.2 If, following a review, State regulations still require operators to hand-deliver filed flight plans, ANSPs should initiate appropriate quality-control measures to reduce the possibility of disparity between electronic and hand-delivered FPLs.

10. Repetitive Flight Plans (RPL)

10.1 The use of RPL is known to be a major contributor to the initiation of duplicate flight plans and can lead to the provision of less-than-optimum services and the erroneous application of separation by ANSPs.

10.2 The flight plan information contained in the RPL may differ from the actual details intended for a flight by the operator on a particular day, for example, the type of aircraft to be flown. These types of changes can impact on the services provided, and on the integrity of the application of separation or wake turbulence standards.

Consequently, direct filing of flight plan messages via the AFTN/AMHS should be the preferred method of flight plan submission by operators.

11. Destination Alternate Aerodromes

11.1 Some automated ground systems will reject flight plans that do not contain a destination alternate aerodrome, even if an alternate is not required to be filed for the specific destination. Consequently, some operators file alternate aerodromes when an alternate is not required in order to prevent the flight plan from being rejected, resulting in the economic burden of having to carry additional and unnecessary fuel.

11.2 *ICAO Annex 6, Operation of Aircraft, Part 2* provides exceptions to the requirements for filing a destination alternate aerodrome. ANSPs should ensure that the alternate field is not a mandatory field for the automated processing of flight plans, especially for flights transiting to a destination in another FIR.

12. Naming of Arrival/Departure Procedures

12.1 ANSPs should ensure that the names for any published Standard Instrument Departure (SID) or Standard Terminal Arrival (STAR) procedures permitted to be filed in flight plans comply with the naming requirements of *ICAO Annex 11, Air Traffic Services, Appendix 3*, in order to reduce the number of flight plan rejections.

12.2 ANSPs should ensure that ATM systems are able to correctly process filed flight plans that include SIDs and STARs as part of the route.

13. Supplementary Flight Plan Information (FPL item 19)

13.1. The supplementary flight plan information should not be considered to be transmitted per each FPL.

13.2. When for SAR reason this information is required by any ANSP (according to the annex 11, part 5.2.2.1), the following sequence to acquire the information will be:

- a) *via VHF*, requested to the flight crew, if the event is considered by the ATC, as an appropriate action, or

- b) *via the telephone*, contacting the Airline designated 24/7 flight operation/dispatching unit (specified on the FPL delegation agreement), or
- c) *via AFTN/AMHS*, to the Airline designated 24/7 flight operation/dispatching unit (specified on the FPL delegation agreement).

14. ICAO FPL 2012 Format Conversions

14.1 During the transition to the ICAO FPL 2012 format, converters were used by some ANSPs to convert existing flight plans to the new format.

14.2 The following issues are associated with the continued use of converters:

- a) The benefits of the Amendment 1 changes are not fully realised, particularly reduced separation standards relating to Performance-Based Navigation (PBN), and the provision of ADS-B services (including separation).
- b) The interoperability of ATS Interfacility Data Communications (AIDC) messaging would remain restricted where converter solutions were in use.

14.3 Other known issues with the ICAO FPL 2012 include:

- a) The indicator RVR/ in Item 18 of the FPL. This indicator should be either accepted without processing, or deleted without rejection by ATM systems.
- b) Rejections of FPL occur if unexpected RMK/ information is included in Item 18.

14.4 In order to reduce erroneous messages from being originated, and to obtain the maximum benefit from the new flight plan format, ANSPs should achieve full compliance with the provisions of ICAO FPL 2012 for automation and supporting systems.

15. Operator Feedback

15.1 ANSPs should consider establishing a reporting mechanism to provide regular feedback to operators on the number and causes of flight plan rejections and errors.

15.2 Additionally, ANSPs should consider holding periodic User/Operator forums to discuss recurring discrepancies.

16. References

ICAO Annex 6, Operation of Aircraft, Part 2 (para 2.2.2.3.5)

ICAO Annex 10, Aeronautical Telecommunications, Volume II, Chapter 4

ICAO Annex 11, Air Traffic Services, Chapter 2, Appendix 3, and Appendix 4

ICAO Location Indicators (Doc 7910)

ICAO Designators for Aircraft Operating Agencies (Doc 8585)

ICAO AFTN Routing Directory, Asia and Pacific Regions, 27th Edition, August 2007

ICAO PANS ATM, (Doc 4444) (para 11.2.1.1.1)

EUROCONTROL IFPL Specification:

- <https://www.eurocontrol.int/articles/initial-flight-plan-ifpl-specification>
- <http://www.acac.org.ma/ar/Workshop%20Presentation/IFPS%20in%20Flight%20PlanningV4.pdf>

APPENDIX H
FPL AD HOC GROUP ACTION PLAN

Item	Task	Start date	End date	Status
1	FPL MON GROUP - Phase 1	09-05-2014	31-10-2014	
1.1	Create a common format for data collection	16-05-2014	13-06-2014	
1.1.1	Send draft	16-05-2014	16-05-2014	Completed
1.1.2	Suggest changes to draft document	19-05-2014	30-05-2014	Completed
1.1.3	Approve format/document	06-06-2014	13-06-2014	Completed
1.2	1st teleconf FPL Mon Group	09-07-2014	09-07-2014	Completed
1.3	Collection of Data	10-07-2014	22-08-2014	
1.3.1	Review and familiarization with Format	10-07-2014	18-07-2014	Completed
1.3.2	Collection of 1st week and feedback to Group	21-07-2014	25-07-2014	Completed
1.3.3	Continue data collection	28-07-2014	22-08-2014	Completed
1.3.4	Collecting Information for completing Questionnaire on Alternative aerodrome	21-07-2014	22-08-2014	Superseded
1.4	Obtain additional information: CANSO, etc	09-05-2014	25-07-2014	Completed
1.5	Analyze the Data collected and identify sources of Errors	25-08-2014	05-11-2014	Completed
1.6	Develop actions items for Resolving/mitigating Errors Detected	05-11-2014	05-11-2014	Completed
1.7	2nd Teleconf FPL Mon Group	05-09-2014	05-09-2014	Completed
1.8	Definition and follow-up to Action Plan	24-02-2015	27-02-2015	Completed
2	Evaluation - Phase II - collection of data (TBD)	26-02-2015	13-05-2015	Valid
2.1	Obtain and distribute the AFTN address list of FIRs	26-02-2015	15-03-2015	Valid
2.2	Teleconference for coordination	09-03-2015	09-03-2015	Valid
2.3	Data Collection	16-03-2015	10-04-2015	Valid
2.4	Teleconference, week 1 of data collection	23-03-2015	23-03-2015	Valid
2.5	Data Collection analysis	13-04-2015	01-05-2015	Valid
2.6	Post-analysis teleconference	06-05-2015	06-05-2015	Valid
2.7	Phase II data collection report	07-05-2015	13-05-2015	Valid
2.8	Prepare working paper for ANI/WG meeting	14-05-2015	22-05-2015	Valid

— END —