



ICAO

International Civil Aviation Organization

The First Meeting of the South Asia, Indian Ocean and  
Southeast Asia ATM Coordination Group (SAIOSEACG/1)

Video Teleconference, 28 March – 01 April 2022

## Agenda Item 4: Review of Current Operations and Problem Areas

### APPLICATION OF ATC SEPARATION MINIMUMS

(Presented by Secretariat)

#### SUMMARY

This paper presents information on the Seamless ATM survey conducted to determine which Air Traffic Control (ATC) separation minimums were being applied within the Asia/Pacific Region.

## 1. INTRODUCTION

1.1 In an endeavour to track the effectiveness of the Seamless Air Navigation Services (ANS) element implementation related to the use of tactical (ATC surveillance-based and datalink-supported) ATC separation minimums, the ICAO Regional Office issued State Letter T 3/10.1 – AP005/22 (ATM) dated 24 January 2022, with a response date of 08 March 2022 (**Attachment A**).

1.2 The survey requested respondents to advise the minimum horizontal separation minimums authorized for use by controllers within Category R (remote), Category T (terminal operations serviced by direct ATS communications and surveillance) and Category S (surveilled by radar, Automatic Dependent Surveillance-Broadcast [ADS-B] or Multilateration [MLAT]), and the minimum horizontal spacing authorized by Air Traffic Services Letter of Agreement (ATS LOA) or other instruments on each of your Flight Information Region (FIR) inbound transfer of Control (TOC) points. Surveying the TOC points' spacing parameter is a step forward in helping to identify the 'bottleneck' FIR Boundary TOC points in the region. In addition, it was asked whether your Administration applied a Flight Level Allocation Scheme within its FIR(s) [no closer than 50NM to the FIR boundary]. The survey is at **Attachment B**.

1.3 The specific parts from the *Asia/Pacific Seamless ANS Plan* being referred to in the survey were:

7.34 All ATC units should authorise the use of the horizontal separation minima stated in ICAO Doc 4444 (PANS ATM), or as close to the separation minima as practicable, taking into account such factors as:

*the automation of the ATM system, including automated hand-off between sectors;*

- a) *the capability of the ATC communications system;*
- b) *the performance of the ATS surveillance system, including data-sharing or overlapping coverage at TOC points; and*
- c) *ensuring the competency of air traffic controllers to apply the full tactical capability of ATS surveillance systems.*

*Note 1: the delivery of ATC services should be based primarily on the CNS/ATM capability. When using Annex 10 compliant ATS surveillance, 5NM (enroute) or 3NM (terminal) surveillance-based separations should be authorised within ATC sectors. At the TOC points in such environments, 5-10NM should be authorised with auto hand-off and surveillance data-sharing or overlapping coverage at the TOC point, and 5-20NM without auto hand-off, as determined by an appropriate safety assessment.*

*Note 2: the efficacy, continuity and availability of ATM services should be supported by adherence with regional planning and guidance material regarding ATM automation and ATM contingency systems (regarding ATM contingency operations, refer to the Regional ATM Contingency Plan).*

7.35 *Priority for FLAS level allocations should be given to higher density ATS routes over lower density ATS routes. FLAS should comply with Annex 2, Appendix 3a unless part of an OTS. FLAS other than OTS should only be utilised for safety and efficiency reasons within:*

a) Category R airspace with the agreement of all ANSPs that provide services:

- *within the airspace concerned; and*
- *within adjacent airspace which is affected by the FLAS; or*

Category S airspace with the agreement of all ANSPs that provide services:

- *where crossing track conflicts occur within 50NM of the FIRB; and*
- *ATS surveillance coverage does not overlap the FIRB concerned, or ATS surveillance data is not exchanged between the ATC units concerned.*

## 2. DISCUSSION

### Survey

2.1 The response to the latest survey has been received from 14 States/Administrations (31% of administrations). The responses are provided in **Attachment C** and **D**. The data in **Attachment C** shows the responses from Q1 & Q3 of the survey and has been coloured so that red text indicates non-compliance with the *Asia/Pacific Seamless ANS Plan's* expectations, while green text means compliance. Whereas **Attachment D** shows all reported inbound TOC points from Q2 and its compliance to the Seamless ANS plan.

2.2 States and Administrations that did not respond were as follows:

Afghanistan, Bangladesh, Bhutan, Brunei Darussalam, China, Cook Islands, DPR Korea, French Polynesia, Indonesia, Japan, Kiribati, Lao PDR, Malaysia, Maldives, Marshall Islands, Micronesia (Federated State of), Mongolia, Myanmar, Nauru, New Caledonia, New Zealand, Palau, Papua New Guinea, Samoa, Solomon Islands, Sri Lanka, Timor-Leste, Tonga, Tuvalu and Vanuatu.

2.3 The survey questions circulated were expected to provide greater clarity on the separation minimums used in the region. Remote, Surveillance and Terminal airspace separations were surveyed and tracked. States are reminded to respond on separation minimums for only inbound flights at FIR TOC points.

2.4 Based on the 2022 survey response from 14 states representing 19 FIRs,

ATC separation within the FIR: It can be seen that the majority of Category R and Category T horizontal separation is in compliance with Seamless ANS separation standards whereas for Category S, only 56% (9 out of 16) applicable FIRs are in compliance. (Attachment C)

- a) For ATC separation at inbound FIR TOC points: The data showed that 72% (201 of 281) TOC points in the Category R/S to R TOC and 22 of 316 Category S to S TOC points are in compliance and nil for the Category R to S TOC points (Attachment D)

2.5 In general, Asia Pacific Category R airspace and interfaces comply with the expectations of the Asia/Pacific Seamless ANS Plan, however Category S and interfaces will require more efforts to comply with the expectations of the Asia/Pacific Seamless ANS Plan. In order to provide a clear definition to illustrate the efficiency and compliance of ATC separation standard in the Asia Pacific region, the colour-coding will be amended accordingly and shared at the ATM/SG/10. Therefore, all States/Administrations are urged to complete the ATC separations survey.

Regional Guidance Material

2.6 States are urged to refer to the following guidance on the ICAO Regional Office website referring to the correct PBN specification for spacing in Category R airspace. In particular, there was no need for Air Traffic Control (ATC) to be concerned about the specific PBN specification in Category S airspace because the separation service should be conducted using ATC surveillance – in this case the PBN specification is for the ‘N’ (navigation) not the ‘ATM’:

<https://www.icao.int/APAC/Documents/edocs/Establishing%20the%20Correct%20PBN%20Specifications%20for%20ATS%20Routes.pdf>

APANPIRG/32

2.7 At the APANPIRG/32, held from 1 – 3 December 2021, all Administrations were urged to review Letters of Agreement (LOAs) with adjacent FIR, both periodically and whenever there was an improvement in CNS/ATM systems, given the urgent need to ensure the most efficient ATM systems to support the fragile recovery of the aviation industry after severe financial losses during the COVID-19 pandemic.

2.8 The meeting agreed to the following Conclusion, drafted by SAIOACG/10 and SEACG/27:

<b>Conclusion APANPIRG/32-3: Implementation of Efficient ATS Horizontal Separations and Transfer of Control Aircraft Spacing</b>	
<p>What: That, given the global priority to support airlines’ recovery from the unprecedented negative economic consequences of the COVID-19 pandemic and the suitable low traffic environment:</p> <p>a) States/Administrations are strongly urged to review and update their National Air Navigation Plans (NANPs) to ensure that Air Navigation Service Providers (ANSPs) fully implement the horizontal separation and aircraft spacing elements in the Asia/Pacific Seamless ANS Plan V3.0; and</p> <p>b) ICAO considers the need for seminars, workshops and other educational material to support this implementation.</p>	<p>Expected impact:</p> <p><input checked="" type="checkbox"/> Political / Global</p> <p><input type="checkbox"/> Inter-regional</p> <p><input checked="" type="checkbox"/> Economic</p> <p><input checked="" type="checkbox"/> Environmental</p> <p><input checked="" type="checkbox"/> Ops/Technical</p>
<p>Why: Due to the non-implementation by many APAC State/Administrations of the expectations of the Asia/Pacific Seamless ANS</p>	<p>Follow-up: <input checked="" type="checkbox"/> Required from States</p>

Plan regarding horizontal separation and spacing standards, and to support airline recovery.			
When:	3-Dec-21	Status:	Adopted by PIRG
Who:	<input type="checkbox"/> Sub groups <input checked="" type="checkbox"/> APAC States <input checked="" type="checkbox"/> ICAO APAC RO <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Other: ICAO APAC RSO		

### Conclusions

2.9 States should note that the current low traffic environment in most parts of the Asia/Pacific Region caused by COVID-19 – except for cargo aircraft operations – is an ideal lower risk opportunity to implement new ATC procedures, including efficient ATC separations.

2.10 Given the urgent need to ensure the most efficient ATM systems to support the fragile recovery of the aviation industry after severe financial losses compared to ANSPs during the COVID-19 pandemic, ICAO urges all APAC States and Administrations to address this key aspect of capacity and efficiency within their National Air Navigation Plans. ICAO will be bringing this matter to the attention of States through the DGCA Conference and Ministerial forums.

2.11 The ICAO Regional Office (and from a global perspective, ICAO HQ) also has a role in educating States about the human performance aspects that act as barriers to implementation of more efficient horizontal separations and aircraft spacing at TOC points, particularly those contained within the *Asia/Pacific Seamless ANS Plan*, reproduced as follows for ease of reference:

5.22 *An optimal ‘aviation culture’ within regulators and service providers can only be implemented when top managers instil an understanding of a system-wide approach that creates an organic, learning and safe environment. When considering the key factors supporting an ‘aviation culture’, it is important to acknowledge that no ‘national culture’ is perfectly aligned with ‘aviation culture’, so there will always be a need for gap analysis and changes where development of an appropriate in culture is required. In focussing on management it is therefore important to train managers, and for managers to have a level of competency in the following areas (Figure 6):*

..... (truncated).....

- c) *the systematic application of human factors principles in –  
air safety investigation;  
system design (ergonomics, human-in-the-loop);  
effective training (including the use of simulators);  
fatigue management;  
automated safety nets; and  
contingency planning;*
- d) *the implementation of effective safety reporting systems that –  
are non-punitive, supporting a ‘Just Culture’;  
promote open reporting to management; and  
focus on preventive (systemic), not corrective (individual) actions in  
response to safety concerns, incidents and accidents.*



**Figure 6: Optimal Aviation Culture Factors**

### ANSP Human and Simulator Performance

7.43 The following systems should be established to support human performance in the delivery of a Seamless ANS service. The systems should consider all the elements of the SHEL Model (Software, Hardware, Environment and Liveware – humans), in accordance with the ICAO Human Factors Digest No. 1 and related reference material:

- a) human performance training for all managers of operational air navigation services (such as aerodrome operators, ATC organisations and aeronautical telecommunications), such training to include the importance of:

a proactive organisational culture where managers and operational staff are informed and safety is a first priority, using open communications and an effective team management approach;

assessment and management of risks by safety review and assessment teams comprising multidisciplinary operational staff and managers which review safety performance and assess significant proposals for change to ATM systems, particularly those related to human capabilities and limitations;

human factors in –

- air safety investigation;
- system design (ergonomics, human-in-the-loop);
- effective training (including the improved application of simulators);
- fatigue management;
- automated safety nets; and
- contingency planning;

effective safety reporting systems that –

- are non-punitive, supporting a ‘Just Culture’;
- promote open reporting to management; and
- focus on preventive (systemic), not corrective (individual) actions in response to safety concerns, incidents and

*accidents.*

- b) human performance-based training and procedures for operational staff providing ATS, including:  
the application of tactical, surveillance-based ATC separation;  
control techniques near minimum ATC separation; and  
responses to ATM contingency operations, irregular/abnormal operations and safety net alerts.*
- b) human performance-based training and procedures for staff providing operational air navigation services (such as aerodrome staff operating 'airside', air traffic controllers and aeronautical telecommunications technicians) regarding the importance of:  
an effective safety reporting culture; and  
'Just Culture' (Priority 1).*

*Note 1: prevention of fatigue systems should be established to support human performance in the delivery of a Seamless ANS service. The systems should be consistent with guidance within ICAO Doc 9966 FRMS – Fatigue Risk Management System.*

*Note 2: regarding ATM contingency operations, refer to the Regional ATM Contingency Plan.*

### **3. ACTION BY THE MEETING**

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) urge all Administrations to complete the ATC separations survey;
- c) urge all Administrations that have not done so to implement separation minimums to improve ATC service levels and update their ATS LOAs to meet the expectations of the *Asia/Pacific Seamless ANS Plan*; and
- d) discuss any relevant matters as appropriate.

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Reference: T 3/10.1 – AP005/22 (ATM)

24 January 2022

Subject: **Annual ATC Separation Standards Survey**

Action required: To complete the survey and reply no later than **08 March 2022**

Sir/Madam,

I wish to draw your attention to the outcomes of the Ninth Meeting of the Air Traffic Management Sub-Group of APANPIRG (ATM/SG/9, Video Teleconference, 01 – 05 November 2021) relating to a revised annual ATC Separation Standards survey initiated by the ICAO APAC Regional Office in January 2017 and analyzed at all subsequent meetings of the ATM/SG. The survey provides the means for ATM/SG, APANPIRG and the ICAO Regional Office to gauge the regional implementation of separation minimums provided in ICAO Doc 4444 *Procedures for Air Navigation Services – Air Traffic Management* (PANS-ATM), and as expected by APANPIRG in accordance with the performance objectives of the *Asia/Pacific Seamless ANS Plan*.

The revised survey questions are expected to provide greater clarity on the separation standards used in the region. Terminal airspace separations will also now be surveyed and tracked. With regard to the spacing used at Transfer of Control (TOC) points, States are reminded to respond only for inbound flights at Flight Information Region (FIR) TOC points.

Guidance material to assist States in the interpretation of the survey is provided in **Attachment A**. Accordingly, States are urged to complete the ATC Separation Standards Survey (**Attachment B**) no later than **08 March 2022**, and submit the survey to the following email address [apac@icao.int](mailto:apac@icao.int), with a copy to [ssummer@icao.int](mailto:ssummer@icao.int);

Yours sincerely,

Tao Ma  
Regional Director

**Enclosures:**

A – Guidance Material

B – ATC Separation Standards Survey

## Guidance Material

### Why is the survey necessary (including benefits if known)?

In general, some APAC Administrations were not applying ATC standards as provided in ICAO Doc 4444 – *Procedures for Air Navigation Services (PANS-ATM)*, opting instead to use larger, less efficient separations. The application of these larger separations not only affects airspace capacity and efficiency, but also affects safety due to the increased ATC workload in managing larger spacing, and more conflicts. Effectively, these States have not optimized service levels in line with PANS-ATM, the *Asia/Pacific Seamless ANS Plan*, and the capability of contemporary ATM systems

The Ninth Meeting of the APANPIRG ATM Sub-Group (ATM/SG/9, Video Teleconference, 01 – 05 November 2021) had been concerned that less than 30% of administrations had responded to the 2021 survey of ATC separation standards.

### Who is affected by the survey?

The survey applies to all Asia/Pacific Administrations that have an Air Traffic Control (ATC) unit providing area (en-route) or approach control services.

### What needs to be done?

State regulators should determine what horizontal separation standards are approved and/or applied in coordination with the Air Navigation Service Provider (ANSP), and in accordance with the survey attached to the State Letter. The horizontal separations include those within Category R (remote), Category S (surveilled by radar, Automatic Dependent Surveillance-Broadcast [ADS-B] or Multilateration [MLAT]) and Category T (terminal operations serviced by direct ATS communications and surveillance). Once the data is assembled to answer the survey, it should be transmitted to the ICAO Regional Office as detailed in the State Letter.

When responding to the question on spacing applied at FIR boundary Transfer of Control (TOC) points, information should be provided on the spacing at *inbound* TOC points only.

### Who do you contact if you have more questions, or if you would like to offer assistance to other States on this matter?

Contact (in order of precedence):

1. Mr. Shane Sumner, Regional Officer ATM ([ssumner@icao.int](mailto:ssumner@icao.int)); or
2. ICAO Asia/Pacific Regional Office, attention ATM Section ([apac@icao.int](mailto:apac@icao.int)).

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ICAO Asia/Pacific Regional Office  
Annual APAC Regional Survey of ATC Separation Standards

Instructions: For each FIR administered by your State or Administration, complete the survey below:

Q1: Noting the categorization of airspace in the Asia/Pacific Seamless ANS Plan paragraph 1.4 and the performance expectation in paragraph 7.34 (link provided below) what minimum horizontal separation standard has been authorized for controllers to use within your Category R, Category S and Category T airspace?

Category R (remote) airspace:  NM  
 Category S (surveillance) airspace: NM NM  
 Category T (terminal) airspace (international airports): NM

Remarks:

Q2: What minimum horizontal spacing has been authorized by Air Traffic Services Letter of Agreement (ATS LOA) or other instrument on each of your Flight Information Region (FIR) inbound transfer of Control (TOC) points?

Please fill in the table in Sheet 2. Example as shown:

S/No.	TOC Points	ATS Routes	Category of Airspace to FIR TOC Point (Inbound only)	Minimum horizontal separation standard	Inbound Transferring FIR	Remarks/Route Restrictions
01	ARAMA	A464	Category S airspace to Category S FIR TOC Point	10nm	Kuala Lumpur	
02	AKMON	M768	Category R/S airspace to Category R FIR TOC Point	10 minutes MNT	Ho Chi Minh / Kota Kinabalu	
03	TEGID	M767	Category R/S airspace to Category R FIR TOC Point	50nm	Manila	Based on RNP10 operations

*(Note: This question only applies to inbound flights entering the FIRs. If for example your State applies 10NM inbound at the TOC point and the neighbouring State applies 30NM, then respond '10NM').*

Remarks:

ICAO Asia/Pacific Regional Office  
Annual APAC Regional Survey of ATC Separation Standards

Q3: Noting the expectations of the Asia/Pacific Seamless ANS Plan paragraph 7.35 (link below), does your Administration apply a Flight Level Allocation Scheme within its FIR(s) [no closer than 50NM to the FIR boundary]? If so, please provide details.

YES / NO

Details/Remarks:

The Asia/Pacific Seamless ANS Plan and this survey form (in MS Excel format for ease of use) are available on the ICAO Asia/Pacific Regional Office eDocuments web-page (ATM Section, Seamless ANS Plan Sub-Section, at:

<https://www.icao.int/APAC/Pages/eDocs.aspx>

States/Administration	Q1: Minimum horizontal separation standard			Q3: FLAS
	Expected standard: ≤ 50 NM	Expected standard: 5 NM	Expected standard: 5 NM	Expected standard: No
	Category R Horizontal Separation	Category S Horizontal Separation	Category T Horizontal Separation	FLAS
Afghanistan	N/A	50 NM		Yes
Australia	30 NM	5 NM	3 NM	No
Bangladesh				
Bhutan	N/A	50 NM		
Brunei Darussalam				
Cambodia	N/A	10 NM	5NM	Yes
China	30NM	5 NM		Yes
Cook Islands				
DPR Korea				
Fiji	30 NM	N/A	5	No
French Polynesia	30 NM	10-20 NM		No
Hong Kong, China	N/A	5 NM	2.5 - 5 NM	No
India (Delhi)	50 NM	5 - 10 NM	3 - 5 NM	Yes
India (Mumbai)	50 NM	5 - 10 NM	3 - 5 NM	Yes
India (Kolkata)	50 NM	5 - 10 NM	3 - 5 NM	No
India (Chennai)	50 NM	5 - 10 NM	3 - 5 NM	No
Indonesia	50NM	5NM	5NM	No
Japan	30NM	5NM	3NM	Yes
Kiribati				
Lao PDR	10 NM	10 NM		Yes
Macao, China	N/A	N/A	N/A	N/A
Malaysia (Kota Kinabalu)	N/A	5 NM	5 NM	Yes
Malaysia (Kuala Lumpur)	Longitudinal 10 mins	5 NM	3 NM	No
Maldives	50 NM	5 NM		No
Marshall Islands				
Micronesia (Federated State of)				
Mongolia	10 minutes	30KM/16NM		Yes
Myanmar	50 NM/10 mins	50 NM/10 mins		Yes
Nauru				
Nepal	N/A	5 NM	5 NM	Yes
New Caledonia				
New Zealand	30 NM RNP 4	5 NM		No
Pakistan (Lahore FIR)	50 NM	15 NM	5 NM	Yes
Pakistan (Karachi FIR)	50 NM	15 NM	5 NM	Yes
Palau				
Papua New Guinea	30NM	5NM	5NM	No
Philippines	80NM/10 mins MNT	5 NM	5 NM	Yes
Republic of Korea	N/A	5NM	3NM	No
Samoa				
Singapore	50 NM	5 NM	3 NM	Yes
Solomon Islands				
Sri Lanka	50 NM / 10 Mins MNT	8-10 NM	5 NM	Yes
Thailand	N/A	5 NM	3- 10 NM	No
Timor-Leste				
Tonga	N/A	25 NM		No
Tuvalu				
United States (Anchorage Oceanic)	15 - 30 NM	5 NM	5 NM	Yes
United States (Oakland Oceanic)	15 - 30 NM	5 NM	3 NM	Yes
Vanuatu				
Viet Nam	N/A	5-10 NM	3-5 NM	Yes

States that responded for 2022 survey

revised Q2

S/No.	TOC Points	ATS Routes	Category of Airspace to FIR TOC Point (Inbound only)	Minimum horizontal separation standard	Inbound Transferring FIR	Remarks/Route Restrictions	Accepting FIR	Seamless ANS Plan compliance?
1	DOVOM	G329	Category R/S airspace to Category R FIR TOC Point	30NM	NADI	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
2	UBLIN	A579	Category R/S airspace to Category R FIR TOC Point	30NM	NADI	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
3	RUMIX	B333	Category R/S airspace to Category R FIR TOC Point	30NM	NADI	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
4	VESUN	B580 / B601	Category R/S airspace to Category R FIR TOC Point	30NM	NADI	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
5	TEBUR	B578 / B602	Category R/S airspace to Category R FIR TOC Point	30NM	NADI	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
6	MEPAD	B474 / B587	Category R/S airspace to Category R FIR TOC Point	30NM	NADI	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
7	BODEG	B586	Category R/S airspace to Category R FIR TOC Point	30NM	NADI	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
8	ENDUS	A597	Category R/S airspace to Category R FIR TOC Point	30NM	NADI	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
9	NIPER	B598	Category R/S airspace to Category R FIR TOC Point	30NM	NADI	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
10	AKMAL	R450	Category R/S airspace to Category R FIR TOC Point	30NM	NADI	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
11	LEGOT	B452 / R599	Category R/S airspace to Category R FIR TOC Point	30NM	NADI	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
12	KAPNO	B590	Category R/S airspace to Category R FIR TOC Point	30NM	NADI	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
13	BULRO	G223	Category R/S airspace to Category R FIR TOC Point	30NM	NADI	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
14	UPDIX	A584	Category R/S airspace to Category R FIR TOC Point	30NM	NADI	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
15	LEPKA	B326	Category R/S airspace to Category R FIR TOC Point	30NM	NADI	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
16	KASKU	A578	Category R/S airspace to Category R FIR TOC Point	30NM	NADI	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
17	MARTI	A598	Category R/S airspace to Category R FIR TOC Point	30NM	OAKLAND	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
18	ELNUR	B589	Category R/S airspace to Category R FIR TOC Point	30NM	OAKLAND	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant

19	MUBIT	G223	Category R/S airspace to Category R FIR TOC Point	30NM	OAKLAND	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
20	FENSE	A578	Category R/S airspace to Category R FIR TOC Point	30NM	OAKLAND	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
21	TESAK	B589	Category R/S airspace to Category R FIR TOC Point	30NM	PORT MORESBY	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
22	PONOK	B452	Category R/S airspace to Category R FIR TOC Point	30NM	PORT MORESBY	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
23	KAKOP	A597	Category R/S airspace to Category R FIR TOC Point	30NM	PORT MORESBY	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
24	NIPOK	R213 / B598	Category R/S airspace to Category R FIR TOC Point	30NM	PORT MORESBY	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
25	HOBBO	R213	Category R/S airspace to Category R FIR TOC Point	30NM	PORT MORESBY	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
26	TICAL	J917	Category R/S airspace to Category R FIR TOC Point	30NM	PORT MORESBY	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
27	TEKAN	B586	Category R/S airspace to Category R FIR TOC Point	30NM	PORT MORESBY	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
28	WEENA	G205	Category R/S airspace to Category R FIR TOC Point	30NM	PORT MORESBY	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
29	DUKUB	B333	Category R/S airspace to Category R FIR TOC Point	30NM	PORT MORESBY	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
30	VIPAM	B220	Category R/S airspace to Category R FIR TOC Point	30NM	PORT MORESBY	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
31	APISO	B462	Category R/S airspace to Category R FIR TOC Point	30NM	PORT MORESBY	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
32	TOSAS	R346	Category R/S airspace to Category R FIR TOC Point	30NM	PORT MORESBY	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
33	KAPSO	R210	Category R/S airspace to Category R FIR TOC Point	30NM	PORT MORESBY	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
34	APUKA	A216	Category R/S airspace to Category R FIR TOC Point	30NM	PORT MORESBY	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
35	POSOX	B598	Category R/S airspace to Category R FIR TOC Point	30NM	PORT MORESBY	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
36	LIDET	R204	Category R/S airspace to Category R FIR TOC Point	30NM	PORT MORESBY	30nm with RNP 4 where aircraft report position via ADS-C and maintain CPDLC communications	Australia	Compliant
37	BEGMI	G459	Category R/S airspace to Category R FIR TOC Point	50NM	UJUNG	For RNAV10/RNP10 approved aircraft	Australia	Compliant
38	OPABA	B587 / B473	Category R/S airspace to Category R FIR TOC Point	50NM	UJUNG	For RNAV10/RNP10 approved aircraft	Australia	Compliant
39	TOREX	B472	Category R/S airspace to Category R FIR TOC Point	50NM	UJUNG	For RNAV10/RNP10 approved aircraft	Australia	Compliant
40	GUTEV	R340	Category R/S airspace to Category R FIR TOC Point	50NM	UJUNG	For RNAV10/RNP10 approved aircraft	Australia	Compliant
41	BUTPA	A461	Category R/S airspace to Category R FIR TOC Point	50NM	UJUNG	For RNAV10/RNP10 approved aircraft	Australia	Compliant

42	ELBIS	M768 / A339	Category R/S airspace to Category R FIR TOC Point	50NM	UJUNG	For RNAV10/RNP10 approved aircraft	Australia	Compliant
43	TODOT	Z10	Category R/S airspace to Category R FIR TOC Point	50NM	UJUNG	For RNAV10/RNP10 approved aircraft	Australia	Compliant
44	METAN	Z69	Category R/S airspace to Category R FIR TOC Point	50NM	UJUNG	For RNAV10/RNP10 approved aircraft	Australia	Compliant
45	ISMUD	Z86	Category R/S airspace to Category R FIR TOC Point	50NM	UJUNG	For RNAV10/RNP10 approved aircraft	Australia	Compliant
46	KIKEM	M774	Category R/S airspace to Category R FIR TOC Point	50NM	UJUNG	For RNAV10/RNP10 approved aircraft	Australia	Compliant
47	SPRIG	J199	Category R/S airspace to Category R FIR TOC Point	50NM	UJUNG	For RNAV10/RNP10 approved aircraft	Australia	Compliant
48	ALEGO	A458	Category R/S airspace to Category R FIR TOC Point	50NM	UJUNG	For RNAV10/RNP10 approved aircraft	Australia	Compliant
49	SATNA	M766	Category R/S airspace to Category R FIR TOC Point	50NM	UJUNG	For RNAV10/RNP10 approved aircraft	Australia	Compliant
50	ONOX	G326 / A587	Category R/S airspace to Category R FIR TOC Point	50NM	UJUNG	For RNAV10/RNP10 approved aircraft	Australia	Compliant
51	ATMAP	M635	Category R/S airspace to Category R FIR TOC Point	50NM	UJUNG	For RNAV10/RNP10 approved aircraft	Australia	Compliant
52	TARUN	T20	Category R/S airspace to Category R FIR TOC Point	50NM	UJUNG	For RNAV10/RNP10 approved aircraft	Australia	Compliant
53	EGATU	G578	Category R/S airspace to Category R FIR TOC Point	50NM	UJUNG	For RNAV10/RNP10 approved aircraft	Australia	Compliant
54	PUPIT	R592	Category R/S airspace to Category R FIR TOC Point	50NM	UJUNG	For RNAV10/RNP10 approved aircraft	Australia	Compliant
55	XXM	L897	Category R/S airspace to Category R FIR TOC Point	50nm	Jakarta	Jakarta: surveillance and RNP 10 route	Australia	Compliant
56	SAPDA	L895	Category R/S airspace to Category R FIR TOC Point	50nm	Jakarta	Jakarta: surveillance and RNP 10 route	Australia	Compliant
57	SAPDA	L896	Category R/S airspace to Category R FIR TOC Point	50nm	Jakarta	Jakarta: surveillance and RNP 10 route	Australia	Compliant
58	SAPDA	A585	Category R/S airspace to Category R FIR TOC Point	10min	Jakarta	Jakarta: surveillance and non-RNP route	Australia	not compliant
59	LAMOB	B469	Category R/S airspace to Category R FIR TOC Point	10min	Jakarta	Jakarta: surveillance and non-RNP route	Australia	not compliant
60	ATMAL	R206	Category R/S airspace to Category R FIR TOC Point	10min	Jakarta	Jakarta: surveillance and non-RNP route	Australia	not compliant
61	XXM	G209	Category R/S airspace to Category R FIR TOC Point	10min	Jakarta	Jakarta: surveillance and non-RNP route	Australia	not compliant
62	XXM	G337	Category R/S airspace to Category R FIR TOC Point	10min	Jakarta	Jakarta: surveillance and non-RNP route	Australia	not compliant
63	AKUKO	B325	Category R/S airspace to Category R FIR TOC Point	10min	Jakarta	Jakarta: surveillance and non-RNP route	Australia	not compliant
64	POSCO	N633	Category R/S airspace to Category R FIR TOC Point	10min	Jakarta	Jakarta: surveillance and non-RNP route	Australia	not compliant
65	ELATI	L774	Category R/S airspace to Category R FIR TOC Point	50nm	Colombo	RNP10 aircraft, prior coordination	Australia	Compliant
66	ELATI	N640	Category R/S airspace to Category R FIR TOC Point	50nm	Colombo	RNP10 aircraft, prior coordination	Australia	Compliant
67	DOGAR	M641	Category R/S airspace to Category R FIR TOC Point	50nm	Colombo	RNP10 aircraft, prior coordination	Australia	Compliant
68	KADAP	P627	Category R/S airspace to Category R FIR TOC Point	50nm	Colombo	RNP10 aircraft, prior coordination	Australia	Compliant
69	DADAR	N628	Category R/S airspace to Category R FIR TOC Point	50nm	Colombo	RNP10 aircraft, prior coordination	Australia	Compliant
70	DADAR	L894	Category R/S airspace to Category R FIR TOC Point	50nm	Colombo	RNP10 aircraft, prior coordination	Australia	Compliant
71	SABEK	N628	Category R/S airspace to Category R FIR TOC Point	50nm	Male	RNP10 aircraft, prior coordination	Australia	Compliant
72	LATEP	R348	Category R/S airspace to Category R FIR TOC Point	50nm	Mauritius	RNP10 aircraft, prior coordination	Australia	Compliant
73	GUDUG	R212	Category R/S airspace to Category R FIR TOC Point	50nm	Mauritius	RNP10 aircraft, prior coordination	Australia	Compliant
74	KALBI	P627	Category R/S airspace to Category R FIR TOC Point	50nm	Mauritius	RNP10 aircraft, prior coordination	Australia	Compliant
75	LELED	L774	Category R/S airspace to Category R FIR TOC Point	50nm	Mauritius	RNP10 aircraft, prior coordination	Australia	Compliant
76	PEDPI	N633	Category R/S airspace to Category R FIR TOC Point	50nm	Mauritius	RNP10 aircraft, prior coordination	Australia	Compliant
77	KADEM	G200	Category R/S airspace to Category R FIR TOC Point	50nm	Mauritius	RNP10 aircraft, prior coordination	Australia	Compliant
78	SOLIT	G594	Category R/S airspace to Category R FIR TOC Point	50nm	Mauritius	RNP10 aircraft, prior coordination	Australia	Compliant
79	MABAD	G595	Category R/S airspace to Category R FIR TOC Point	50nm	Mauritius	RNP10 aircraft, prior coordination	Australia	Compliant
80	GUGON	A333	Category R/S airspace to Category R FIR TOC Point	50nm	Mauritius	RNP10 aircraft, prior coordination	Australia	Compliant
81	SUNKI	G451	Category R/S airspace to Category R FIR TOC Point	50nm	Mauritius	RNP10 aircraft, prior coordination	Australia	Compliant
82	RERAB	B585	Category R/S airspace to Category R FIR TOC Point	50nm	Mauritius	RNP10 aircraft, prior coordination	Australia	Compliant
83	BUGBA	P757	Category R/S airspace to Category R FIR TOC Point	30NM	AUCKLAND	30nm with RNP4 - Auckland requires RCP240 and RSP180, Brisbane requires ADS-C and CPDLC	Australia	Compliant
84	ELGUN	M643	Category R/S airspace to Category R FIR TOC Point	30NM	AUCKLAND	30nm with RNP4 - Auckland requires RCP240 and RSP180, Brisbane requires ADS-C and CPDLC	Australia	Compliant
85	OMKIN	L508	Category R/S airspace to Category R FIR TOC Point	30NM	AUCKLAND	30nm with RNP4 - Auckland requires RCP240 and RSP180, Brisbane requires ADS-C and CPDLC	Australia	Compliant
86	TOMAR	M625	Category R/S airspace to Category R FIR TOC Point	30NM	AUCKLAND	30nm with RNP4 - Auckland requires RCP240 and RSP180, Brisbane requires ADS-C and CPDLC	Australia	Compliant

87	MIDAT	L513	Category R/S airspace to Category R FIR TOC Point	30NM	AUCKLAND	30nm with RNP4 - Auckland requires RCP240 and RSP180, Brisbane requires ADS-C and CPDLC	Australia	Compliant
88	SULON	N750	Category R/S airspace to Category R FIR TOC Point	30NM	AUCKLAND	30nm with RNP4 - Auckland requires RCP240 and RSP180, Brisbane requires ADS-C and CPDLC	Australia	Compliant
89	NUMSA	P880	Category R/S airspace to Category R FIR TOC Point	30NM	AUCKLAND	30nm with RNP4 - Auckland requires RCP240 and RSP180, Brisbane requires ADS-C and CPDLC	Australia	Compliant
90	SASRO	M636 / N759	Category R/S airspace to Category R FIR TOC Point	30NM	AUCKLAND	30nm with RNP4 - Auckland requires RCP240 and RSP180, Brisbane requires ADS-C and CPDLC	Australia	Compliant
91	LEGAN	L521	Category R/S airspace to Category R FIR TOC Point	30NM	AUCKLAND	30nm with RNP4 - Auckland requires RCP240 and RSP180, Brisbane requires ADS-C and CPDLC	Australia	Compliant
92	RUNOD	L503	Category R/S airspace to Category R FIR TOC Point	30NM	AUCKLAND	30nm with RNP4 - Auckland requires RCP240 and RSP180, Brisbane requires ADS-C and CPDLC	Australia	Compliant
93	OLREL	N774	Category R/S airspace to Category R FIR TOC Point	30NM	AUCKLAND	30nm with RNP4 - Auckland requires RCP240 and RSP180, Brisbane requires ADS-C and CPDLC	Australia	Compliant
94	VEPAS	M639	Category R/S airspace to Category R FIR TOC Point	30NM	AUCKLAND	30nm with RNP4 - Auckland requires RCP240 and RSP180, Brisbane requires ADS-C and CPDLC	Australia	Compliant
95	SARAP	G595	Category R/S airspace to Category R FIR TOC Point	30NM	AUCKLAND	30nm with RNP4 - Auckland requires RCP240 and RSP180, Brisbane requires ADS-C and CPDLC	Australia	Compliant
96	RIGMI	A464	Category R/S airspace to Category R FIR TOC Point	30NM	AUCKLAND	30nm with RNP4 - Auckland requires RCP240 and RSP180, Brisbane requires ADS-C and CPDLC	Australia	Compliant
97	TEKEP	A346 / B450	Category R/S airspace to Category R FIR TOC Point	30NM	AUCKLAND	30nm with RNP4 - Auckland requires RCP240 and RSP180, Brisbane requires ADS-C and CPDLC	Australia	Compliant
98	IGARI	08/M765/N8	Category S airspace to Category S FIR TOC Point	20NM	Kuala Lumpur	RNP10 for M765, N891	Vietnam	not compliant
99	DUDIS	M771	Category S airspace to Category S FIR TOC Point	20NM	Singapore	Above FL290, ADS-B, SSR equipped aircraft	Vietnam	not compliant
100	DUDIS	L644	Category S airspace to Category S FIR TOC Point	10 minutes MNT	Singapore	RNAV equipped aircraft	Vietnam	not compliant
101	AKMON	L625/M768	Category S airspace to Category S FIR TOC Point	10 minutes MNT	Singapore	RNAV equipped aircraft	Vietnam	not compliant
102	IPRIX	M753	Category S airspace to Category S FIR TOC Point	20NM	Singapore	Above FL290, ADS-B, SSR equipped aircraft	Vietnam	not compliant
103	EXOTO	L642	Category S airspace to Category S FIR TOC Point	50NM	Sanya	RNP10	Vietnam	not compliant
104	MIGUG	N892	Category S airspace to Category S FIR TOC Point	10 minutes (80NM) MNT	Manila		Vietnam	not compliant
105	ARESI	L628	Category S airspace to Category S FIR TOC Point	10 minutes (80NM) MNT	Manila		Vietnam	not compliant
106	PANDI	M765/N500	Category S airspace to Category S FIR TOC Point	10 minutes (80NM) MNT	Manila		Vietnam	not compliant
107	BOMPA	B202	Category S airspace to Category S FIR TOC Point	20NM	Vientiane		Vietnam	not compliant
108	ANINA	G474	Category S airspace to Category S FIR TOC Point	20NM	Phnom Penh		Vietnam	not compliant
109	GONLY	R588	Category S airspace to Category S FIR TOC Point	20NM	Phnom Penh		Vietnam	not compliant
110	MULAD	M505	Category S airspace to Category S FIR TOC Point	20NM	Phnom Penh		Vietnam	not compliant
111	SAPEN	R468	Category S airspace to Category S FIR TOC Point	20NM	Phnom Penh		Vietnam	not compliant
112	NUMDI	R334	Category S airspace to Category S FIR TOC Point	20NM	Phnom Penh ACC/Sihanouk Tower		Vietnam	not compliant
113	DADEM	M510	Category S airspace to Category S FIR TOC Point	20NM	Phnom Penh		Vietnam	not compliant
114	KISAN	M755	Category S airspace to Category S FIR TOC Point	20NM	Phnom Penh		Vietnam	not compliant
115	OSOTA	M753	Category S airspace to Category S FIR TOC Point	20NM	Phnom Penh		Vietnam	not compliant
116	XONAN	N891	Category S airspace to Category S FIR TOC Point	20NM	Phnom Penh		Vietnam	not compliant
117	PAPRA	A1/R575	Category S airspace to Category S FIR TOC Point	20NM	Vientiane		Vietnam	not compliant
118	VILAO	A202/N639	Category S airspace to Category S FIR TOC Point	20NM	Vientiane		Vietnam	not compliant

119	NALAO	A206	Category S airspace to Category S FIR TOC Point	20NM	Vientiane		Vietnam	not compliant
120	LAVOS	R474	Category S airspace to Category S FIR TOC Point	20NM	Vientiane		Vietnam	not compliant
121	LAPON	B465	Category S airspace to Category S FIR TOC Point	20NM	Vientiane		Vietnam	not compliant
122	NOBOK	B468	Category S airspace to Category S FIR TOC Point	20NM	Vientiane ACC/Luang Prabang APP		Vietnam	not compliant
123	LADON	B214	Category S airspace to Category S FIR TOC Point	20NM	Vientiane		Vietnam	not compliant
124	TORED	R328	Category S airspace to Category S FIR TOC Point	20NM	Vientiane		Vietnam	not compliant
125	IDOTA	R335	Category S airspace to Category S FIR TOC Point	20NM	Vientiane		Vietnam	not compliant
126	ASSAD	A202/A206	Category S airspace to Category S FIR TOC Point	20NM	Sanya		Vietnam	not compliant
127	BUNTA	A1/G221	Category S airspace to Category S FIR TOC Point	20NM	Sanya		Vietnam	not compliant
128	TEBAK	R474	Category S airspace to Category S FIR TOC Point	20NM	Nanning		Vietnam	not compliant
129	KATBO	R471	Category S airspace to Category S FIR TOC Point	20NM	Kunming		Vietnam	not compliant
130	BOKAK	R468	Category S airspace to Category S FIR TOC Point	10NM	Bangkok FIR	RNAV2 operation	Phnom Penh	Compliant
131	BOKAK	Y3	Category S airspace to Category S FIR TOC Point	10NM	Bangkok FIR	RNAV2 operation	Phnom Penh	Compliant
132	OMURO	L880	Category S airspace to Category S FIR TOC Point	10NM	Bangkok FIR	RNAV2 operation	Phnom Penh	Compliant
133	OMURO	G474	Category S airspace to Category S FIR TOC Point	10NM	Bangkok FIR	Conventional route	Phnom Penh	Compliant
134	BIDEM	R345	Category S airspace to Category S FIR TOC Point	10NM	Bangkok FIR	Conventional route	Phnom Penh	Compliant
135	LEKOB	N639	Category S airspace to Category S FIR TOC Point	10NM	Vientiane FIR	RNAV2 operation	Phnom Penh	Compliant
136	LEKOB	B329	Category S airspace to Category S FIR TOC Point	10NM	Vientiane FIR	Conventional route	Phnom Penh	Compliant
137	LAVAN	R575	Category S airspace to Category S FIR TOC Point	10NM	Vientiane FIR	RNAV operation	Phnom Penh	Compliant
138	ANINA	G474	Category S airspace to Category S FIR TOC Point	10NM	Ho Chi Minh FIR	Conventional route	Phnom Penh	Compliant
139	GONLY	R588	Category S airspace to Category S FIR TOC Point	10NM	Ho Chi Minh FIR	Conventional route	Phnom Penh	Compliant
140	MULAD	M505	Category S airspace to Category S FIR TOC Point	10NM	Ho Chi Minh FIR	Conventional route	Phnom Penh	Compliant
141	SAPEN	R468	Category S airspace to Category S FIR TOC Point	10NM	Ho Chi Minh FIR	Conventional route	Phnom Penh	Compliant
142	DADEM	M510	Category S airspace to Category S FIR TOC Point	10NM	Ho Chi Minh FIR	RNAV operation	Phnom Penh	Compliant
143	KISAN	M755	Category S airspace to Category S FIR TOC Point	10NM	Ho Chi Minh FIR	RNAV operation	Phnom Penh	Compliant
144	NUMDI	R334	Category S airspace to Category S FIR TOC Point	10NM	Ho Chi Minh FIR	Conventional route	Phnom Penh	Compliant
145	OSOTA	M753	Category S airspace to Category S FIR TOC Point	10NM	Ho Chi Minh FIR	RNAV operation	Phnom Penh	Compliant
146	SAKDA	R575	Category S airspace to Category S FIR TOC Point	10NM	Bangkok FIR	Conventional route	Phnom Penh	Compliant
147	AGEDO	B204	Category S airspace to Category S FIR TOC Point	10NM	Bangkok FIR	Conventional route	Phnom Penh	Compliant
148	BASIT	R588	Category S airspace to Category S FIR TOC Point	10NM	Bangkok FIR	Conventional route	Phnom Penh	Compliant
149	KANSU	467,Y437,Z5	Category S airspace to Category S FIR TOC Point	30KM or 17NM	PYONGYANG FIR		Incheon	not compliant
150	ANDOL	L512	Category S airspace to Category S FIR TOC Point	15~30NM	FUKUOKA FIR		Incheon	not compliant
151	IGRAS	Z56,B332	Category S airspace to Category S FIR TOC Point	15~30NM	FUKUOKA FIR		Incheon	not compliant
152	LANAT	G597,Y697	Category S airspace to Category S FIR TOC Point	15~30NM	FUKUOKA FIR		Incheon	not compliant
153	SAPRA	G585,Y685	Category S airspace to Category S FIR TOC Point	15~30NM	FUKUOKA FIR		Incheon	not compliant
154	KALEK	Z84	Category S airspace to Category S FIR TOC Point	15~20NM	FUKUOKA FIR		Incheon	not compliant
155	INVOK	Z91,G339	Category S airspace to Category S FIR TOC Point	15~20NM	FUKUOKA FIR		Incheon	not compliant
156	APELA	A582,Y782	Category S airspace to Category S FIR TOC Point	15~20NM	FUKUOKA FIR		Incheon	not compliant
157	SAMDO	A595,Y677	Category S airspace to Category S FIR TOC Point	15~20NM	FUKUOKA FIR		Incheon	not compliant
158	RUGMA	586,Y579,Z8	Category S airspace to Category S FIR TOC Point	15~20NM	FUKUOKA FIR		Incheon	not compliant
159	ONIKU	A593	Category S airspace to Category S FIR TOC Point	20NM	FUKUOKA FIR		Incheon	not compliant
160	ATOTI	B576,Y722	Category S airspace to Category S FIR TOC Point	30NM	FUKUOKA FIR		Incheon	not compliant
161	LAMEN	A593	Category S airspace to Category S FIR TOC Point	20NM or 10MINS	SHANGHAI FIR		Incheon	not compliant
162	AGAVO	Y644	Category S airspace to Category S FIR TOC Point	20NM	SHANGHAI FIR		Incheon	not compliant
163	NOMAN	A461	Category S airspace to Category S FIR TOC Point	30NM	Manila FIR	1. RNP4 Compliant 2. CPDLC equipped 3. F290 or above 4. at least one landing within Hong Kong FIR 5. Distance is constant or increasing	Hong Kong, China	not compliant

164	SABNO	A583	Category R airspace to Category S FIR TOC Point	50NM	Manila FIR	1. RNP10 compliant 2. CPDLC equipped 3. Distance is constant or increasing	Hong Kong, China	not compliant
165	ASOBA	M772	Category R airspace to Category S FIR TOC Point	10 mins	Manila FIR	If preceding aircraft is faster, can apply MNT to reduce the longitudinal separation	Hong Kong, China	not compliant
166	ELATO	A1	Category S airspace to Category S FIR TOC Point	20NM	Taipei FIR	40NM if succeeding aircraft is faster	Hong Kong, China	not compliant
167	KAPLI	G86	Category S airspace to Category S FIR TOC Point	20NM	Taipei FIR		Hong Kong, China	not compliant
168	TAMOT	B330	Category S airspace to Category S FIR TOC Point	30NM (joining different routes within HK FIR) 50NM (others)	Guangzhou FIR		Hong Kong, China	not compliant
169	DOTMI	A470	Category S airspace to Category S FIR TOC Point	30NM (one landing at VHHH or joining different routes within HK FIR) 10 mins with MNT (others)	Guangzhou FIR / Shantou ATCU		Hong Kong, China	not compliant
170	LELIM	M503	Category S airspace to Category S FIR TOC Point	10 min	Guangzhou FIR		Hong Kong, China	not compliant
171	SIERA	R473	Category S airspace to Category S FIR TOC Point	16NM (one landing at VHHH) 20NM (traffic from Zhuhai Approach) 10 mins with MNT (others)	Guangzhou FIR / Zhuhai Approach		Hong Kong, China	not compliant
172	SIKOU	A202	Category S airspace to Category S FIR TOC Point	20NM	Sanya FIR / Zhangjiang ATCU	40NM if succeeding aircraft is faster	Hong Kong, China	not compliant
173	IKELA	A1/P901	Category S airspace to Category S FIR TOC Point	20NM	Sanya FIR	40NM if succeeding aircraft is faster	Hong Kong, China	not compliant
174	DOSUT	M771	Category S airspace to Category S FIR TOC Point	50NM	Sanya FIR	Distance is constant or increasing	Hong Kong, China	not compliant
175	NOMAN	A461	Category S airspace to Category S FIR TOC Point	30NM	Hong Kong	30NM spacing requires RNP4 and CPDLC	Manila	not compliant
176	SABNO	A583	Category R/S airspace to Category R FIR TOC Point	50NM	Hong Kong	50NM spacing requires RNP10 and CPDLC	Manila	Compliant
177	ARESI	L625	Category R/S airspace to Category R FIR TOC Point	80NM or 10 minutes MNT	HoChiMinh		Manila	not compliant
178	ARESI	L628	Category R/S airspace to Category R FIR TOC Point	80NM or 10 minutes MNT	HoChiMinh		Manila	not compliant
179	PANDI	M765	Category R/S airspace to Category R FIR TOC Point	80NM or 10 minutes MNT	HoChiMinh		Manila	not compliant
180	LAXOR	N884	Category R airspace to Category S FIR TOC Point	30NM	Singapore	30NM spacing requires RNP4, ADS-C/CPDLC	Manila	not compliant
181	LAXOR	M772	Category R/S airspace to Category R FIR TOC Point	80NM or 10 minutes MNT	Singapore		Manila	not compliant
182	VINIK	M754	Category S airspace to Category S FIR TOC Point	80NM or 10 minutes MNT	Kota Kinabalu		Manila	not compliant
183	OSANU	M646	Category S airspace to Category S FIR TOC Point	50NM	Kota Kinabalu	50NM spacing requires RNP10	Manila	not compliant
184	VIMAG	A341	Category S airspace to Category S FIR TOC Point	50NM	Kota Kinabalu	50NM spacing requires RNP10	Manila	not compliant
185	GORAI	G578	Category S airspace to Category S FIR TOC Point	50NM	Ujung Pandang	50NM spacing requires RNP10	Manila	not compliant
186	MOLLY	A461	Category S airspace to Category S FIR TOC Point	50NM	Ujung Pandang	50NM spacing requires RNP10	Manila	not compliant
187	SELSE	B472	Category S airspace to Category S FIR TOC Point	50NM	Ujung Pandang	50NM spacing requires RNP10	Manila	not compliant
188	PEDNO	R590	Category S airspace to Category S FIR TOC Point	80NM or 10 minutes MNT	Ujung Pandang	50NM spacing not adopted due conflict with B472 inbound and A461 outbound	Manila	not compliant
189	SADAN	B473	Category R/S airspace to Category R FIR TOC Point	80NM or 10 minutes MNT	Ujung Pandang		Manila	not compliant
190	BIDOR	B462	Category R/S airspace to Category R FIR TOC Point	80NM or 10 minutes MNT	Ujung Pandang		Manila	not compliant
191	BOLUG	A339	Category R/S airspace to Category R FIR TOC Point	80NM or 10 minutes MNT	Ujung Pandang		Manila	not compliant
192	SHREE	A339	Category R/S airspace to Category R FIR TOC Point	80NM or 10 minutes MNT	Oakland		Manila	not compliant
193	ISGOG	R337	Category R/S airspace to Category R FIR TOC Point	80NM or 10 minutes MNT	Oakland		Manila	not compliant
194	ENDAX	G467	Category R/S airspace to Category R FIR TOC Point	80NM or 10 minutes MNT	Oakland		Manila	not compliant
195	LIMLE	M501	Category R/S airspace to Category R FIR TOC Point	80NM or 10 minutes MNT	Oakland		Manila	not compliant
196	GURAG	A590	Category R/S airspace to Category R FIR TOC Point	80NM or 10 minutes MNT	Fukuoka		Manila	not compliant
197	GURAG	G578	Category R/S airspace to Category R FIR TOC Point	80NM or 10 minutes MNT	Fukuoka		Manila	not compliant
198	BISIG	A582	Category R/S airspace to Category R FIR TOC Point	80NM or 10 minutes MNT	Fukuoka		Manila	not compliant
199	MEVIN	B462	Category R airspace to Category S FIR TOC Point	80NM or 10 minutes MNT	Fukuoka		Manila	not compliant

200	POTIB	M646	Category S airspace to Category S FIR TOC Point	50NM	Taipei	Spacing less than 50NM requires prior approval	Manila	not compliant
201	KABAM	N892	Category S airspace to Category S FIR TOC Point	80NM or 10 minutes MNT	Taipei		Manila	not compliant
202	OMURO	G474	Category S airspace to Category S FIR TOC Point	20 NM*	Phnom Penh FIR	Surveillance spacing	Bangkok	not compliant
203	TUPGO	M633	Category S airspace to Category S FIR TOC Point	20 NM*	Phnom Penh FIR	Surveillance spacing	Bangkok	not compliant
204	BENSA	N891	Category R airspace to Category S FIR TOC Point	10 Mins	NADI		Bangkok	not compliant
205	VAPVU	P629	Category S airspace to Category S FIR TOC Point	20 NM*	NADI	Surveillance spacing	Bangkok	not compliant
206	BOKAK	R468	Category S airspace to Category S FIR TOC Point	20 NM*	NADI	Surveillance spacing	Bangkok	not compliant
207	SAKDA	R334	Category S airspace to Category S FIR TOC Point	20 NM*	NADI	Surveillance spacing	Bangkok	not compliant
208	BASIT	R588	Category S airspace to Category S FIR TOC Point	20 NM*	NADI	Surveillance spacing	Bangkok	not compliant
209	BIDEM	R345	Category S airspace to Category S FIR TOC Point	20 NM*	NADI	Surveillance spacing	Bangkok	not compliant
210	BUTRA	A1	Category S airspace to Category S FIR TOC Point	20 NM*	Vientiane FIR	Surveillance spacing	Bangkok	not compliant
211	SAV	A202	Category S airspace to Category S FIR TOC Point	20 NM*	Vientiane FIR	Surveillance spacing	Bangkok	not compliant
212	PONUUK	A581	Category S airspace to Category S FIR TOC Point	40 NM	Vientiane FIR	Surveillance spacing FL300 or above	Bangkok	not compliant
213	PAK	B202	Category S airspace to Category S FIR TOC Point	30 NM	Vientiane FIR	Surveillance spacing	Bangkok	not compliant
214	YAKUA	B346	Category S airspace to Category S FIR TOC Point	40 NM, 20 NM*	Vientiane FIR	Surveillance spacing FL300 or above	Bangkok	not compliant
215	BOPNU	M648	Category S airspace to Category S FIR TOC Point	30 NM, 20 NM*	Vientiane FIR	Surveillance spacing	Bangkok	not compliant
216	ANBOK	R207	Category R airspace to Category S FIR TOC Point	10 Mins	Vientiane FIR		Bangkok	not compliant
217	TOMIP	R215	Category S airspace to Category S FIR TOC Point	40 NM, 20 NM*	Vientiane FIR	Surveillance spacing FL300 or above	Bangkok	not compliant
218	VTN	R474	Category S airspace to Category S FIR TOC Point	30 NM, 20 NM*	Vientiane FIR	Surveillance spacing FL300 or above	Bangkok	not compliant
219	VTN	B218/R470	Category S airspace to Category S FIR TOC Point	40 NM	Vientiane FIR	Surveillance spacing	Bangkok	not compliant
220	DUBAX	R325	Category S airspace to Category S FIR TOC Point	30 NM	Kuala Lumpur FIR	Surveillance spacing	Bangkok	not compliant
221	TAMOS	A457	Category S airspace to Category S FIR TOC Point	30 NM	Kuala Lumpur FIR	Surveillance spacing	Bangkok	not compliant
222	KARMI	A464	Category S airspace to Category S FIR TOC Point	30 NM	Kuala Lumpur FIR	Surveillance spacing	Bangkok	not compliant
223	RIGTO	M769	Category S airspace to Category S FIR TOC Point	30 NM	Kuala Lumpur FIR	Surveillance spacing	Bangkok	not compliant
224	SAPAM	L645	Category R airspace to Category S FIR TOC Point	10 Mins	Kuala Lumpur FIR		Bangkok	not compliant
225	RUSET	P627	Category R airspace to Category S FIR TOC Point	10 Mins	Kuala Lumpur FIR		Bangkok	not compliant
226	ABTOK	M644	Category S airspace to Category S FIR TOC Point	30 NM	Kuala Lumpur FIR	Surveillance spacing	Bangkok	not compliant
227	KADAX	M626	Category S airspace to Category S FIR TOC Point	30 NM	Kuala Lumpur FIR	Surveillance spacing	Bangkok	not compliant
228	PASVA	A334	Category S airspace to Category S FIR TOC Point	30 NM	Kuala Lumpur FIR	Surveillance spacing	Bangkok	not compliant
229	GOLUD	M751	Category S airspace to Category S FIR TOC Point	30 NM	Kuala Lumpur FIR	Surveillance spacing	Bangkok	not compliant
230	TIDAR	M904	Category R airspace to Category S FIR TOC Point	10 Mins	Kuala Lumpur FIR		Bangkok	not compliant
231	SISUK	R207	Category R airspace to Category S FIR TOC Point	10 Mins	Yangon FIR		Bangkok	not compliant
232	BOMAS	A581	Category S airspace to Category S FIR TOC Point	30NM, 20 NM*	Yangon FIR	Surveillance spacing	Bangkok	not compliant
233	MAKAS	G473	Category S airspace to Category S FIR TOC Point	30NM, 20 NM*	Yangon FIR	Surveillance spacing	Bangkok	not compliant
234	BETNO	G463	Category S airspace to Category S FIR TOC Point	30NM, 20 NM*	Yangon FIR	Surveillance spacing	Bangkok	not compliant
235	PADET	G331	Category S airspace to Category S FIR TOC Point	10 Mins, 7 Mins	Yangon FIR	7 Mins applied for DEST. VTSP	Bangkok	not compliant
236	LUDVI	L507	Category S airspace to Category S FIR TOC Point	30NM, 20 NM*	Yangon FIR		Bangkok	not compliant
237	BETNO	P646	Category S airspace to Category S FIR TOC Point	30NM, 20 NM*	Yangon FIR		Bangkok	not compliant
238	NURDA	L524	Category S airspace to Category S FIR TOC Point	30NM, 20 NM*	Yangon FIR		Bangkok	not compliant
239	PUMOR	L877	Category S airspace to Category S FIR TOC Point	30NM, 20 NM*	Yangon FIR		Bangkok	not compliant
240	TANEK	L301	Category S airspace to Category S FIR TOC Point	30NM, 20 NM*	Yangon FIR		Bangkok	not compliant
241	AKATO	M502	Category S airspace to Category S FIR TOC Point	30NM, 20 NM*	Yangon FIR		Bangkok	not compliant
242	EKAVO	M626	Category R airspace to Category S FIR TOC Point	10 Mins, 7 Mins	Yangon FIR	7 Mins applied for DEST. VTSP	Bangkok	not compliant
243	TAVUN	L759	Category R airspace to Category S FIR TOC Point	10 Mins, 7 Mins	Yangon FIR	7 Mins applied for DEST. VTSP	Bangkok	not compliant
244	IKULA	L515	Category R airspace to Category S FIR TOC Point	10 Mins, 7 Mins	Yangon FIR	7 Mins applied for DEST. VTSP	Bangkok	not compliant
245	PADET	M770	Category R airspace to Category S FIR TOC Point	10 Mins	Yangon FIR		Bangkok	not compliant
246	GOVKO	R581	Category S airspace to Category S FIR TOC Point	10 min	VECF		Kathmandu	not compliant
247	BIPOV	G336	Category S airspace to Category S FIR TOC Point	10 min	VECF		Kathmandu	not compliant
248	PARSA	G598	Category S airspace to Category S FIR TOC Point	10 min	VECF		Kathmandu	not compliant
249	OMUPA	G590	Category S airspace to Category S FIR TOC Point	10 min	VECF		Kathmandu	not compliant
250	METOM	G338	Category S airspace to Category S FIR TOC Point	10 min	VECF		Kathmandu	not compliant

251	NONIM	B345	Category R/S airspace to Category R FIR TOC Point	10 min	ZPKM		Kathmandu	not compliant
252	GUGAL	M875	Category S airspace to Category S FIR TOC Point	50NM	Delhi	Based on RNP10 Operation	Pakistan, Lahore	not compliant
253	SULOM	A466/L509	Category S airspace to Category S FIR TOC Point	50NM	Delhi	Based on RNP10 Operation on Route L509	Pakistan, Lahore	not compliant
254	RABAN	A456	Category S airspace to Category S FIR TOC Point	10 minutes	Delhi		Pakistan, Lahore	not compliant
255	PURPA	G325/G206	Category R/S airspace to Category R FIR TOC Point	10 Minutes	Urumqi (China)	From TOC Point PURPA on route G206 80NM and on route G325 30NM category R thereafter Category S in Lahore FIR	Pakistan, Lahore	not compliant
256	MOTMO	P500	Category S airspace to Category S FIR TOC Point	50NM	Kabul	Based on RNP10 operation	Pakistan, Lahore	not compliant
257	DUGIN	G206	Category S airspace to Category S FIR TOC Point	10 Minutes	Kabul	From TOC Point DUGIN on route G206 124NM Category S thereafter Category R in Lahore FIR upto TOC Point PURPA	Pakistan, Lahore	not compliant
258	LAJAK	L509/M881	Category S airspace to Category S FIR TOC Point	50NM	Kabul	Based on RNP10 Operation	Pakistan, Lahore	not compliant
259	SITAX	M875/A466	Category S airspace to Category S FIR TOC Point	50NM	Kabul	Based on RNP10 Operation on route M875	Pakistan, Lahore	not compliant
260	DOBAT	N644	Category S airspace to Category S FIR TOC Point	50NM	Kabul	Based on RNP10 Operation	Pakistan, Lahore	not compliant
261	BIROSA	L750	Category S airspace to Category S FIR TOC Point	50NM	Kabul	Based on RNP10 Operation	Pakistan, Lahore	not compliant
262	RIMPA	G202	Category S airspace to Category S FIR TOC Point	10 minutes	Kabul		Pakistan, Lahore	not compliant
263	ASLUM	P628	Category S airspace to Category S FIR TOC Point	50NM	Kabul	Based on RNP10 Operation	Pakistan, Lahore	not compliant
264	KABIM	P518	Category S airspace to Category S FIR TOC Point	50NM	Mumbai	Based on RNP10 Operation	Pakistan, Karachi	not compliant
265	SAPNA	M638/N519	Category S airspace to Category S FIR TOC Point	50NM	Mumbai	Based on RNP10 Operation	Pakistan, Karachi	not compliant
266	PARTY	G208	Category S airspace to Category S FIR TOC Point	50NM	Mumbai		Pakistan, Karachi	not compliant
267	TASOP	A325/B210	Category S airspace to Category S FIR TOC Point	50NM	Mumbai		Pakistan, Karachi	not compliant
268	RAMSA	R462	Category S airspace to Category S FIR TOC Point	50NM	Delhi		Pakistan, Karachi	not compliant
269	VIKIT	P628	Category S airspace to Category S FIR TOC Point	50NM	Delhi	Based on RNP10 Operation	Pakistan, Karachi	not compliant
270	MERUN	G202/R471/G452/L750	Category S airspace to Category S FIR TOC Point	50NM	Delhi	Based on RNP10 Operation on Route L750	Pakistan, Karachi	not compliant
271	SERKA	N636/B466	Category S airspace to Category S FIR TOC Point	50NM	Kabul	Based on RNP10 Operation on route N636	Pakistan, Karachi	not compliant
272	GADER	A453	Category R/S airspace to Category R FIR TOC Point	10 minutes	Kabul		Pakistan, Karachi	not compliant
273	PIRAN	A453	Category R/S airspace to Category R FIR TOC Point	10 minutes	Tehran		Pakistan, Karachi	not compliant
274	DERBO	G452	Category S airspace to Category S FIR TOC Point	50NM	Tehran	Based on RNP10 Operation	Pakistan, Karachi	not compliant
275	KEBUD	L124/G208	Category S airspace to Category S FIR TOC Point	50NM	Tehran	Based on RNAV5 Operation on route L124	Pakistan, Karachi	not compliant
276	ASVIB	G665	Category S airspace to Category S FIR TOC Point	50NM	Tehran		Pakistan, Karachi	not compliant
277	EGRON	A791	Category S airspace to Category S FIR TOC Point	50 NM	Tehran		Pakistan, Karachi	not compliant
278	METBI	R462	Category S airspace to Category S FIR TOC Point	50NM	Tehran		Pakistan, Karachi	not compliant
279	ALPOR	G216/M504	Category S airspace to Category S FIR TOC Point	5 Minutes/50NM	Muscat	Based on RNAV5 on route M504	Pakistan, Karachi	not compliant
280	APELO	B505	Category S airspace to Category S FIR TOC Point	5 Minutes	Muscat		Pakistan, Karachi	not compliant
281	ONISA	L626	Category S airspace to Category S FIR TOC Point	10 MINUTES	KATHMANDU		India, Dehli	not compliant
282	TMA Boundary	22, J1(CDR-2 routes)	Category S airspace to Category S FIR TOC Point	50 NM	KOLKATA		India, Dehli	not compliant
283	LKN	J20 (CDR-2 route)	Category S airspace to Category S FIR TOC Point	50NM	KOLKATA		India, Dehli	not compliant
284	LKN/80°E*	Q18	Category S airspace to Category S FIR TOC Point	20 NM**/ 40NM	KOLKATA	* Subject to conditions and aircraft equipage; ** Trial operations	India, Dehli	not compliant
285	LKN/80°E*	B345	Category S airspace to Category S FIR TOC Point	40NM*/ 10 MINUTES	KOLKATA	* Subject to conditions and aircraft equipage	India, Dehli	not compliant
286	LKN	W85	Category S airspace to Category S FIR TOC Point	40NM*/ 10 MINUTES	KOLKATA	* Subject to conditions and aircraft equipage	India, Dehli	not compliant

287	TMA Boundary	L509, M875, L759, L333	Category S airspace to Category S FIR TOC Point	50NM* / 10 MINUTES	KOLKATA	* Subject to conditions and aircraft equipage	India, Dehli	not compliant
288	LKN/80°E*	A201	Category S airspace to Category S FIR TOC Point	20 NM**/ 40NM* / 10MINUTES	KOLKATA	* Subject to conditions and aircraft equipage; **Trial operations	India, Dehli	not compliant
289	LKN	R460, R594	Category S airspace to Category S FIR TOC Point	20 NM**/ 40NM* / 50NM* / 10MINUTES	KOLKATA	* Subject to conditions and aircraft equipage; **Trial operations	India, Dehli	not compliant
290	TMA Boundary	W33, [J37, J48, J58, J98 (CDR-2 Routes)]	Category S airspace to Category S FIR TOC Point	10 MINUTES	KOLKATA		India, Dehli	not compliant
291	LKN	J39, J47 (CDR-2 Routes)	Category S airspace to Category S FIR TOC Point	10 MINUTES	KOLKATA		India, Dehli	not compliant
292	BUKLO	Q24	Category S airspace to Category S FIR TOC Point	20 NM	MUMBAI		India, Dehli	not compliant
293	FIR Boundary	Q3	Category S airspace to Category S FIR TOC Point	50 NM	MUMBAI		India, Dehli	not compliant
294	TMA Boundary	Z1 (CDR-2 route)	Category S airspace to Category S FIR TOC Point	50 NM	MUMBAI		India, Dehli	not compliant
295	RUPEN	Q1	Category S airspace to Category S FIR TOC Point	20NM* / 50 NM	MUMBAI	* Subject to conditions and aircraft equipage	India, Dehli	not compliant
296	BUKLO/25 30N*	W20	Category S airspace to Category S FIR TOC Point	40NM* / 10 MINUTES	MUMBAI	* Subject to conditions and aircraft equipage	India, Dehli	not compliant
297	30 NM West of IBANI	P628	Category S airspace to Category S FIR TOC Point	50NM* / 10 MINUTES	MUMBAI	* Subject to conditions and aircraft equipage	India, Dehli	not compliant
298	FIR Boundary	A347, W13N	Category S airspace to Category S FIR TOC Point	80 NM /10 MINUTES	MUMBAI		India, Dehli	not compliant
299	EPDAD	W122N	Category S airspace to Category S FIR TOC Point	10 MINUTES	MUMBAI		India, Dehli	not compliant
300	BILAN	W10	Category S airspace to Category S FIR TOC Point	10 MINUTES	MUMBAI		India, Dehli	not compliant
301	UUD	W58	Category S airspace to Category S FIR TOC Point	10 MINUTES	MUMBAI		India, Dehli	not compliant
302	TMA Boundary	J37, J50, J60, J62, Z9 (CDR-2 Routes)	Category S airspace to Category S FIR TOC Point	10 MINUTES	MUMBAI		India, Dehli	not compliant
303	POVOS	J51, Z8 (CDR-2 Routes)	Category S airspace to Category S FIR TOC Point	10 MINUTES	MUMBAI		India, Dehli	not compliant
304	IBANI	J52 (CDR-2 Route)	Category S airspace to Category S FIR TOC Point	10 MINUTES	MUMBAI		India, Dehli	not compliant
305	SEKDO	Z15(CDR-2 Route)	Category S airspace to Category S FIR TOC Point	20 NM	MUMBAI		India, Dehli	not compliant
306	VIKIT	P628	Category S airspace to Category S FIR TOC Point	50NM* / 10 MINUTES	LAHORE	* Subject to conditions and aircraft equipage	India, Dehli	not compliant
307	MERUN	L333, G452	Category S airspace to Category S FIR TOC Point	50NM* / 10 MINUTES	LAHORE	* Subject to conditions and aircraft equipage	India, Dehli	not compliant
308	GUGAL	M875	Category S airspace to Category S FIR TOC Point	50NM* / 10 MINUTES	LAHORE	* Subject to conditions and aircraft equipage	India, Dehli	not compliant
309	SULOM	L509, M890	Category S airspace to Category S FIR TOC Point	50NM* / 10 MINUTES	LAHORE	* Subject to conditions and aircraft equipage	India, Dehli	not compliant
310	SULOM	A466	Category S airspace to Category S FIR TOC Point	50NM* / 5 MINUTES* / 10 MINUTES	LAHORE	* Subject to conditions and aircraft equipage	India, Dehli	not compliant
311	RABAN	A456	Category S airspace to Category S FIR TOC Point	10 MINUTES	LAHORE		India, Dehli	not compliant
312	LAROB	Q24	Category S airspace to Category S FIR TOC Point	20NM	CHENNAI		India, Mumbai	not compliant
313	AGELA	Q8	Category S airspace to Category S FIR TOC Point	30NM* / 50NM	CHENNAI	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
314	OKILA	Q12	Category S airspace to Category S FIR TOC Point	30NM* / 50NM	CHENNAI	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant

315	DUKOD	Z5	Category S airspace to Category S FIR TOC Point	20NM* / 50NM	CHENNAI	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
316	LUTGU	L518	Category S airspace to Category S FIR TOC Point	50NM* / 10 MINUTES	CHENNAI	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
317	OMDEV	T9	Category S airspace to Category S FIR TOC Point	50NM* / 10MINUTES	CHENNAI	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
318	AGELA	W56, N571	Category S airspace to Category S FIR TOC Point	30NM* / 50NM* / 10 MINUTES	CHENNAI	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
319	EPKOS	W67	Category S airspace to Category S FIR TOC Point	30NM* / 10 MINUTES	CHENNAI	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
320	BBM	R458	Category S airspace to Category S FIR TOC Point	30NM* / 10 MINUTES	CHENNAI	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
321	OKILA	P574, R461, W17	Category S airspace to Category S FIR TOC Point	30NM* / 50NM* / 10 MINUTES	CHENNAI	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
322	GODEP	W28	Category S airspace to Category S FIR TOC Point	30NM* / 10 MINUTES	CHENNAI	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
323	LUTGU	W19	Category S airspace to Category S FIR TOC Point	10 MINUTES	CHENNAI		India, Mumbai	not compliant
324	BUSBO	W20, W27, Q28, J3	Category S airspace to Category S FIR TOC Point	10 MINUTES	CHENNAI		India, Mumbai	not compliant
325	SUDUM	W38	Category S airspace to Category S FIR TOC Point	10 MINUTES	CHENNAI		India, Mumbai	not compliant
326	AGELA	B466	Category S airspace to Category S FIR TOC Point	10 MINUTES	CHENNAI		India, Mumbai	not compliant
327	MELAX	W18, W218	Category S airspace to Category S FIR TOC Point	10MINUTES	CHENNAI		India, Mumbai	not compliant
328	FIR Boundary	W136, J89	Category S airspace to Category S FIR TOC Point	10 MINUTES	CHENNAI		India, Mumbai	not compliant
329	KEVIB	J36	Category S airspace to Category S FIR TOC Point	10 MINUTES	CHENNAI		India, Mumbai	not compliant
330	TANGE	J67	Category S airspace to Category S FIR TOC Point	10 MINUTES	CHENNAI		India, Mumbai	not compliant
331	IBANI	Q23	Category S airspace to Category S FIR TOC Point	20 NM	DELHI		India, Mumbai	not compliant
332	TMA Boundary	Z1(CDR-2 routes)	Category S airspace to Category S FIR TOC Point	50 NM	DELHI		India, Mumbai	not compliant
333	ADBUK	Q2	Category S airspace to Category S FIR TOC Point	20NM* / 50NM	DELHI	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
334	IBANI / 2530N*	W19	Category S airspace to Category S FIR TOC Point	40NM* / 10 MINUTES	DELHI	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
335	30NM West of IBANI	P628, L510	Category S airspace to Category S FIR TOC Point	50NM* / 10 MINUTES	DELHI	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
336	BILAN	W10	Category S airspace to Category S FIR TOC Point	10 MINUTES	DELHI		India, Mumbai	not compliant
337	IDOLA	A474	Category S airspace to Category S FIR TOC Point	10 MINUTES	DELHI		India, Mumbai	not compliant
338	UUD	W58, R462	Category S airspace to Category S FIR TOC Point	10 MINUTES	DELHI		India, Mumbai	not compliant
339	MIBOG	J50, J62	Category S airspace to Category S FIR TOC Point	10 MINUTES	DELHI		India, Mumbai	not compliant
340	POVOS	J51, Z8	Category S airspace to Category S FIR TOC Point	10 MINUTES	DELHI		India, Mumbai	not compliant
341	SEKDO	Z15	Category S airspace to Category S FIR TOC Point	20 NM	DELHI		India, Mumbai	not compliant
342	FIR Boundary	J37, J52	Category S airspace to Category S FIR TOC Point	10 MINUTES	DELHI		India, Mumbai	not compliant
343	FIR Boundary	Q20	Category S airspace to Category S FIR TOC Point	20NM	KOLKATA		India, Mumbai	not compliant
344	FIR Boundary	V39	Category S airspace to Category S FIR TOC Point	30NM* / 10 MINUTES	KOLKATA	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
345	ODUMI	T1	Category S airspace to Category S FIR TOC Point	30NM* / 10 MINUTES	KOLKATA	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
346	VEMPI	W140	Category S airspace to Category S FIR TOC Point	30NM* / 10 MINUTES	KOLKATA	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
347	TEGIG	G450, V38	Category S airspace to Category S FIR TOC Point	30NM* / 10 MINUTES	KOLKATA	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant

348	ASOPO	P628	Category S airspace to Category S FIR TOC Point	50NM*/ 10 MINUTES	KOLKATA	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
349	TEGIG	L510	Category S airspace to Category S FIR TOC Point	50 NM*/ 10 MINUTES	KOLKATA	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
350	FIR Boundary	N895, L524, Z14	Category S airspace to Category S FIR TOC Point	50NM*/ 10 MINUTES	KOLKATA	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
351	Common Boundary	N877, L301	Category S airspace to Category S FIR TOC Point	50NM*/ 10 MINUTES	KOLKATA	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
352	ASOPO	A791	Category S airspace to Category S FIR TOC Point	30NM* / 50NM* /10 MINUTES	KOLKATA	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
353	JJB	W99	Category S airspace to Category S FIR TOC Point	10 MINUTES	KOLKATA		India, Mumbai	not compliant
354	FIR Boundary	G472, G590, W40, W68, W139, V73, W136, V75, J4	Category S airspace to Category S FIR TOC Point	10 MINUTES	KOLKATA		India, Mumbai	not compliant
355	TELEM	A791, G210	Category S airspace to Category S FIR TOC Point	50NM* / 10 MINUTES	KARACHI	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
356	RAMSA	R462	Category S airspace to Category S FIR TOC Point	10 MINUTES	KARACHI		India, Mumbai	not compliant
357	SAPNA	M638, N519	Category R/S airspace to Category R FIR TOC Point	50NM*/ 10 MINUTES	KARACHI	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
358	RASKI	L639, L301	Category R/S airspace to Category R FIR TOC Point	50NM*/ 10 MINUTES	MUSCAT	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
359	PARAR	N571	Category R/S airspace to Category R FIR TOC Point	50NM*/ 10 MINUTES	MUSCAT	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
360	TOTOX	P574	Category R/S airspace to Category R FIR TOC Point	50NM*/ 10 MINUTES	MUSCAT	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
361	REXOD	N563	Category R/S airspace to Category R FIR TOC Point	50NM*/ 10 MINUTES	MUSCAT	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
362	LOTAV	M300	Category R/S airspace to Category R FIR TOC Point	50NM*/ 10MINUTES	MUSCAT	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
363	KITAL	P570, L894, L516	Category R/S airspace to Category R FIR TOC Point	50NM*/ 10 MINUTES	MUSCAT	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
364	ASPUX	UL425	Category R/S airspace to Category R FIR TOC Point	50NM*/ 10 MINUTES	MUSCAT	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
365	ANGAL	P751, UM551	Category R/S airspace to Category R FIR TOC Point	10 MINUTES	SANA'S		India, Mumbai	not compliant
366	GIDAS	P323	Category R/S airspace to Category R FIR TOC Point	10 MINUTES	SANA'S		India, Mumbai	not compliant
367	ORLID	G450	Category R/S airspace to Category R FIR TOC Point	10 MINUTES	MOGADISHU		India, Mumbai	not compliant
368	VUTAS	G424, L875	Category R/S airspace to Category R FIR TOC Point	10 MINUTES	SEYCHELLES		India, Mumbai	not compliant
369	CLAVA	B459, L756	Category R/S airspace to Category R FIR TOC Point	10 MINUTES	SEYCHELLES		India, Mumbai	not compliant
370	OTKIR	G465	Category R/S airspace to Category R FIR TOC Point	10 MINUTES	SEYCHELLES		India, Mumbai	not compliant
371	BUSUX	N628	Category R/S airspace to Category R FIR TOC Point	10 MINUTES	SEYCHELLES		India, Mumbai	not compliant
372	MURUS	A474	Category R/S airspace to Category R FIR TOC Point	10 MINUTES	MAURITIUS		India, Mumbai	not compliant
373	LEVLU	N628	Category R/S airspace to Category R FIR TOC Point	10 MINUTES	MALE		India, Mumbai	not compliant
374	ELKEL	G465, L516	Category R/S airspace to Category R FIR TOC Point	10 MINUTES	MALE		India, Mumbai	not compliant
375	RULSA	L756	Category R/S airspace to Category R FIR TOC Point	10 MINUTES	MALE		India, Mumbai	not compliant
376	BIBGO	L894	Category R/S airspace to Category R FIR TOC Point	10 MINUTES	MALE		India, Mumbai	not compliant
377	ANODA	UL425	Category R/S airspace to Category R FIR TOC Point	50NM*/ 10 MINUTES	CHENNAI	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
378	KAKIB	N563	Category R/S airspace to Category R FIR TOC Point	50NM*/ 10 MINUTES	CHENNAI	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant

379	OSUPI	T5	Category R/S airspace to Category R FIR TOC Point	50NM*/ 10 MINUTES	CHENNAI	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
380	BEDIL	L875	Category R/S airspace to Category R FIR TOC Point	50NM*/ 10 MINUTES	CHENNAI	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
381	VASTU	M300	Category R/S airspace to Category R FIR TOC Point	30NM*/ 50NM*/ 10 MINUTES	CHENNAI	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
382	POMAN	P570	Category R/S airspace to Category R FIR TOC Point	30NM*/ 50NM*/ 10 MINUTES	CHENNAI	* Subject to conditions and aircraft equipage	India, Mumbai	not compliant
383	LKN/80°E *	Q18	Category S airspace to Category S FIR TOC Point	20NM** / 40NM	DELHI	* Subject to conditions and aircraft equipage; **Trial operations	India, Kolkata	not compliant
384	TMA Boundary	Z2 (CDR-2 route)	Category S airspace to Category S FIR TOC Point	50NM	DELHI		India, Kolkata	not compliant
385	TMA Boundary	L759, M875, L509, L333	Category S airspace to Category S FIR TOC Point	50NM* / 10 MINUTES	DELHI	* Subject to conditions and aircraft equipage	India, Kolkata	not compliant
386	LKN/80°E *	A201	Category S airspace to Category S FIR TOC Point	20NM** / 40NM*/ 10 MINUTES	DELHI	* Subject to conditions and aircraft equipage; **Trial operations	India, Kolkata	not compliant
387	LKN/80°E *	R460	Category S airspace to Category S FIR TOC Point	20NM**/ 40NM*/ 50NM*/ 10 MINUTES	DELHI	* Subject to conditions and aircraft equipage; **Trial operations	India, Kolkata	not compliant
388	TMA Boundary	W33	Category S airspace to Category S FIR TOC Point	10 MINUTES	DELHI		India, Kolkata	not compliant
389	FIR Boundary	J1, J71, J56, J48, J37, J47, J30, J73	Category S airspace to Category S FIR TOC Point	10 MINUTES	DELHI		India, Kolkata	not compliant
390	FIR Boundary	Q19	Category S airspace to Category S FIR TOC Point	20 NM	MUMBAI		India, Kolkata	not compliant
391	TEGIG	G450 , V38	Category S airspace to Category S FIR TOC Point	30 NM*/ 10 MINUTES	MUMBAI	* Subject to conditions and aircraft equipage	India, Kolkata	not compliant
392	ODUMI	T1	Category S airspace to Category S FIR TOC Point	30 NM*/ 10 MINUTES	MUMBAI	* Subject to conditions and aircraft equipage	India, Kolkata	not compliant
393	VEMPI	W140	Category S airspace to Category S FIR TOC Point	30 NM*/ 10 MINUTES	MUMBAI	* Subject to conditions and aircraft equipage	India, Kolkata	not compliant
394	FIR Boundary	V39	Category S airspace to Category S FIR TOC Point	30 NM*/ 10 MINUTES	MUMBAI	* Subject to conditions and aircraft equipage	India, Kolkata	not compliant
395	Common Boundary	N877, L301	Category S airspace to Category S FIR TOC Point	50NM*/ 10 MINUTES	MUMBAI	* Subject to conditions and aircraft equipage	India, Kolkata	not compliant
396	FIR Boundary	L524, N895	Category S airspace to Category S FIR TOC Point	50NM*/ 10 MINUTES	MUMBAI	* Subject to conditions and aircraft equipage	India, Kolkata	not compliant
397	TEGIG	L510	Category S airspace to Category S FIR TOC Point	50NM* / 10 MINUTES	MUMBAI	* Subject to conditions and aircraft equipage	India, Kolkata	not compliant
398	ASOPO	A791	Category S airspace to Category S FIR TOC Point	30 NM*/ 50NM*/ 10 MINUTES	MUMBAI	* Subject to conditions and aircraft equipage	India, Kolkata	not compliant
399	FIR Boundary	V73, W136, J4, V75, G590, W40, W68, W139, G472	Category S airspace to Category S FIR TOC Point	10 MINUTES	MUMBAI		India, Kolkata	not compliant
400	JJB	W99	Category S airspace to Category S FIR TOC Point	10 MINUTES	MUMBAI		India, Kolkata	not compliant
401	SUPLU	Q10	Category S airspace to Category S FIR TOC Point	20NM*/ 50NM	CHENNAI	* Subject to conditions and aircraft equipage	India, Kolkata	not compliant
402	AKSAN	W29	Category S airspace to Category S FIR TOC Point	30NM*/ 10 MINUTES	CHENNAI	* Subject to conditions and aircraft equipage	India, Kolkata	not compliant
403	SAPNU	W41	Category S airspace to Category S FIR TOC Point	30NM*/ 10 MINUTES	CHENNAI	* Subject to conditions and aircraft equipage	India, Kolkata	not compliant

404	BITEM (above FL255)	W47	Category S airspace to Category S FIR TOC Point	30NM*/ 10 MINUTES	CHENNAI	* Subject to conditions and aircraft equipage	India, Kolkata	not compliant
405	XOPOX (above FL255)	A465	Category S airspace to Category S FIR TOC Point	30NM*/ 10 MINUTES	CHENNAI	* Subject to conditions and aircraft equipage	India, Kolkata	not compliant
406	MEPIP	W136, J4	Category S airspace to Category S FIR TOC Point	30NM*/ 10 MINUTES	CHENNAI	* Subject to conditions and aircraft equipage	India, Kolkata	not compliant
407	MANPU	N877	Category S airspace to Category S FIR TOC Point	30NM*/ 50NM*/ 10 MINUTES	CHENNAI	* Subject to conditions and aircraft equipage	India, Kolkata	not compliant
408	VIPAT (above V9)		Category S airspace to Category S FIR TOC Point	30NM*/ 10 MINUTES	CHENNAI	* Subject to conditions and aircraft equipage	India, Kolkata	not compliant
409	ANSOS	A201	Category S airspace to Category S FIR TOC Point	10 MINUTES	YANGON		India, Kolkata	not compliant
410	CHILA	A599	Category S airspace to Category S FIR TOC Point	10 MINUTES	YANGON		India, Kolkata	not compliant
411	APAGO	B465	Category S airspace to Category S FIR TOC Point	10 MINUTES	YANGON		India, Kolkata	not compliant
412	IBITA	P646	Category R airspace to Category S FIR TOC Point	50NM*/ 10 MINUTES	YANGON	* Subject to conditions and aircraft equipage	India, Kolkata	not compliant
413	TEBOV	L507	Category R airspace to Category S FIR TOC Point	50NM*/ 10 MINUTES	YANGON	* Subject to conditions and aircraft equipage	India, Kolkata	not compliant
414	MIPAK	L759	Category R/S airspace to Category R FIR TOC Point	50NM*/ 10 MINUTES	YANGON	* Subject to conditions and aircraft equipage	India, Kolkata	not compliant
415	RINDA	L301	Category R/S airspace to Category R FIR TOC Point	50NM*/ 10 MINUTES	YANGON	* Subject to conditions and aircraft equipage	India, Kolkata	not compliant
416	MEPEL	M770	Category R/S airspace to Category R FIR TOC Point	50NM*/ 10 MINUTES	YANGON	* Subject to conditions and aircraft equipage	India, Kolkata	not compliant
417	BORBU	L524	Category R/S airspace to Category R FIR TOC Point	50NM*/ 10 MINUTES	YANGON	* Subject to conditions and aircraft equipage	India, Kolkata	not compliant
418	SAGOD	N895	Category R/S airspace to Category R FIR TOC Point	50NM*/ 10 MINUTES	YANGON	* Subject to conditions and aircraft equipage	India, Kolkata	not compliant
419	SAGOD	G472	Category R/S airspace to Category R FIR TOC Point	10 MINUTES	YANGON		India, Kolkata	not compliant
420	VATLA	P628	Category R/S airspace to Category R FIR TOC Point	50NM*/ 10 MINUTES	CHENNAI	* Subject to conditions and aircraft equipage	India, Kolkata	not compliant
421	VATLA	W111	Category R/S airspace to Category R FIR TOC Point	10 MINUTES	CHENNAI		India, Kolkata	not compliant
422	KIBUD	W112	Category R/S airspace to Category R FIR TOC Point	10 MINUTES	CHENNAI		India, Kolkata	not compliant
423	NUSRU	Q23	Category S airspace to Category S FIR TOC Point	20NM	MUMBAI		India, Chennai	not compliant
424	VIKAS	Q9	Category S airspace to Category S FIR TOC Point	30NM*/ 50NM	MUMBAI	* Subject to conditions and aircraft equipage	India, Chennai	not compliant
425	GULUP	Q13	Category S airspace to Category S FIR TOC Point	30NM*/ 50NM	MUMBAI	* Subject to conditions and aircraft equipage	India, Chennai	not compliant
426	AGELA	N571	Category S airspace to Category S FIR TOC Point	50NM*/ 10 MINUTES	MUMBAI	* Subject to conditions and aircraft equipage	India, Chennai	not compliant
427	LUTGU	L518	Category S airspace to Category S FIR TOC Point	50NM*/ 10 MINUTES	MUMBAI	* Subject to conditions and aircraft equipage	India, Chennai	not compliant
428	OMDEV	T9	Category S airspace to Category S FIR TOC Point	50NM*/ 10 MINUTES	MUMBAI	* Subject to conditions and aircraft equipage	India, Chennai	not compliant
429	OKILA	P574 , W17	Category S airspace to Category S FIR TOC Point	30NM*/ 50NM*/ 10 MINUTES	MUMBAI	* Subject to conditions and aircraft equipage	India, Chennai	not compliant
430	AGELA	W56	Category S airspace to Category S FIR TOC Point	30NM*/ 50NM*/ 10 MINUTES	MUMBAI	* Subject to conditions and aircraft equipage	India, Chennai	not compliant
431	EPKOS	W67	Category S airspace to Category S FIR TOC Point	30NM*/ 50NM*/ 10 MINUTES	MUMBAI	* Subject to conditions and aircraft equipage	India, Chennai	not compliant
432	BBM	R458	Category S airspace to Category S FIR TOC Point	30NM*/ 50NM*/ 10 MINUTES	MUMBAI	* Subject to conditions and aircraft equipage	India, Chennai	not compliant
433	GODEP	W28	Category S airspace to Category S FIR TOC Point	30NM*/ 50NM*/ 10 MINUTES	MUMBAI	* Subject to conditions and aircraft equipage	India, Chennai	not compliant
434	VIKAS	B211	Category S airspace to Category S FIR TOC Point	30NM*/ 50NM*/ 10 MINUTES	MUMBAI	* Subject to conditions and aircraft equipage	India, Chennai	not compliant
435	MEPIP	W136	Category S airspace to Category S FIR TOC Point	10 MINUTES	MUMBAI		India, Chennai	not compliant
436	LUTGU	W19	Category S airspace to Category S FIR TOC Point	10 MINUTES	MUMBAI		India, Chennai	not compliant

437	BUSBO	W20	Category S airspace to Category S FIR TOC Point	10 MINUTES	MUMBAI		India, Chennai	not compliant
438	PEDMA	W27	Category S airspace to Category S FIR TOC Point	10 MINUTES	MUMBAI		India, Chennai	not compliant
439	SUDUM	W38	Category S airspace to Category S FIR TOC Point	10 MINUTES	MUMBAI		India, Chennai	not compliant
440	MELAX	W218	Category S airspace to Category S FIR TOC Point	10 MINUTES	MUMBAI		India, Chennai	not compliant
441	MELAX/COMMON BOUNDARY	Q27/J42	Category S airspace to Category S FIR TOC Point	10 MINUTES	MUMBAI		India, Chennai	not compliant
442	GUROG	J64	Category S airspace to Category S FIR TOC Point	10 MINUTES	MUMBAI		India, Chennai	not compliant
443	COMMON BOUNDARY	J89, J41, J36, J3	Category S airspace to Category S FIR TOC Point	10 MINUTES	MUMBAI		India, Chennai	not compliant
444	BUSBO	Q28	Category S airspace to Category S FIR TOC Point	10 MINUTES	MUMBAI		India, Chennai	not compliant
445	TANGE	J67	Category S airspace to Category S FIR TOC Point	10 MINUTES	MUMBAI		India, Chennai	not compliant
446	COMMON BOUNDARY	J28, J29 (CDR Routes) 3	Category S airspace to Category S FIR TOC Point	10 MINUTES	MUMBAI		India, Chennai	not compliant
447	AGELA	J104	Category S airspace to Category S FIR TOC Point	10 MINUTES	MUMBAI		India, Chennai	not compliant
448	UXOGO	J65	Category S airspace to Category S FIR TOC Point	10 MINUTES	MUMBAI		India, Chennai	not compliant
449	PEGBO	J5	Category S airspace to Category S FIR TOC Point	50NM*/10 MINUTES	MUMBAI	* Subject to conditions and aircraft equipage	India, Chennai	not compliant
450	NODAX	Q11	Category S airspace to Category S FIR TOC Point	20NM**	KOLKATA	**Trial operations	India, Chennai	not compliant
451	MEPIP	W136 , J4	Category S airspace to Category S FIR TOC Point	30NM*/ 10 MINUTES	KOLKATA	* Subject to conditions and aircraft equipage	India, Chennai	not compliant
452	SAPNU	W41	Category S airspace to Category S FIR TOC Point	30NM*/ 10 MINUTES	KOLKATA	* Subject to conditions and aircraft equipage	India, Chennai	not compliant
453	AKSAN	W29	Category S airspace to Category S FIR TOC Point	30NM*/ 10 MINUTES	KOLKATA	* Subject to conditions and aircraft equipage	India, Chennai	not compliant
454	BITEM (above FL255)	W47	Category S airspace to Category S FIR TOC Point	30NM*/ 10 MINUTES	KOLKATA	* Subject to conditions and aircraft equipage	India, Chennai	not compliant
455	VIPAT (above FL255)	V009	Category S airspace to Category S FIR TOC Point	30NM*/ 10 MINUTES	KOLKATA	* Subject to conditions and aircraft equipage	India, Chennai	not compliant
456	XOPOX (above FL255)	A465	Category S airspace to Category S FIR TOC Point	30NM*/ 10 MINUTES	KOLKATA	* Subject to conditions and aircraft equipage	India, Chennai	not compliant
457	MANPU	N877	Category S airspace to Category S FIR TOC Point	30 NM*/ 50NM*/ 10 MINUTES	KOLKATA	* Subject to conditions and aircraft equipage	India, Chennai	not compliant
458	BASUR	P570	Category S airspace to Category S FIR TOC Point	50NM*/ 80NM*/ 10 MINUTES	COLOMBO	* Subject to conditions and aircraft equipage	India, Chennai	not compliant
459	ATETA	M300	Category S airspace to Category S FIR TOC Point	50NM*/ 80NM*/ 10 MINUTES	COLOMBO	* Subject to conditions and aircraft equipage	India, Chennai	not compliant
460	IDIBI	G325	Category S airspace to Category S FIR TOC Point	10 MINUTES	COLOMBO		India, Chennai	not compliant
461	SAGOR	A465	Category S airspace to Category S FIR TOC Point	10 MINUTES	COLOMBO		India, Chennai	not compliant
462	DEMON	R461	Category S airspace to Category S FIR TOC Point	10 MINUTES	COLOMBO		India, Chennai	not compliant
463	ANODA	UL425	Category R airspace to Category S FIR TOC Point	50NM*/ 10 MINUTES	MUMBAI	* Subject to conditions and aircraft equipage	India, Chennai	not compliant
464	OSUPI	T5	Category R airspace to Category S FIR TOC Point	50NM*/ 10 MINUTES	MUMBAI	* Subject to conditions and aircraft equipage	India, Chennai	not compliant
465	BEDIL	L875	Category R airspace to Category S FIR TOC Point	50NM*/ 10 MINUTES	MUMBAI	* Subject to conditions and aircraft equipage	India, Chennai	not compliant
466	KAKIB	N563	Category R airspace to Category S FIR TOC Point	50NM*/ 10 MINUTES	MUMBAI	* Subject to conditions and aircraft equipage	India, Chennai	not compliant
467	POMAN	P570	Category R airspace to Category S FIR TOC Point	30NM*/ 50NM*/ 10 MINUTES	MUMBAI	* Subject to conditions and aircraft equipage	India, Chennai	not compliant

468	VASTU	M300	Category R airspace to Category S FIR TOC Point	30NM*/ MINUTES	50NM*/ 10	MUMBAI	* Subject to conditions and aircraft equipage	India, Chennai	not compliant
469	LULDA	P762	Category R airspace to Category S FIR TOC Point	50NM*/ MINUTES	80NM*/ 10	YANGON	* Subject to conditions and aircraft equipage	India, Chennai	not compliant
470	VATLA	W111	Category R airspace to Category S FIR TOC Point	10 MINUTES		KOLKATA		India, Chennai	not compliant
471	KIBUD	W112	Category R airspace to Category S FIR TOC Point	10 MINUTES		KOLKATA		India, Chennai	not compliant
472	MEMAK	N563	Category R/S airspace to Category R FIR TOC Point	50NM*/ MINUTES	80NM*/ 10	JAKARTA	* Subject to conditions and aircraft equipage	India, Chennai	not compliant
473	DUGOS	P762	Category R/S airspace to Category R FIR TOC Point	50NM*/ MINUTES	80NM*/ 10	COLOMBO	* Subject to conditions and aircraft equipage	India, Chennai	not compliant
474	SULTO	L645	Category R/S airspace to Category R FIR TOC Point	10 MINUTES		COLOMBO		India, Chennai	not compliant
475	DUGOS	L896, N564	Category R/S airspace to Category R FIR TOC Point	10 MINUTES		COLOMBO		India, Chennai	not compliant
476	IGOGU	N571	Category R/S airspace to Category R FIR TOC Point	50NM*/ 10 MINUTES		KUALALUMPUR	* Subject to conditions and aircraft equipage	India, Chennai	not compliant
477	IGREX	P628	Category R/S airspace to Category R FIR TOC Point	50NM*/ 10 MINUTES		KUALALUMPUR	* Subject to conditions and aircraft equipage	India, Chennai	not compliant
478	NOPEK	P574	Category R/S airspace to Category R FIR TOC Point	10 MINUTES		KUALALUMPUR		India, Chennai	not compliant
479	ANOKO	B466	Category R/S airspace to Category R FIR TOC Point	10 MINUTES		KUALALUMPUR		India, Chennai	not compliant
480	POXOD	R329	Category R/S airspace to Category R FIR TOC Point	15 MINUTES		MALE		India, Chennai	not compliant
481	NOKID	R457	Category R/S airspace to Category R FIR TOC Point	10 MINUTES		MALE		India, Chennai	not compliant
482	TELAR	L899	Category R/S airspace to Category R FIR TOC Point	10 MINUTES		MALE		India, Chennai	not compliant
483	DOVOM	G329	Category R/S airspace to Category R FIR TOC Point	30		YBBB	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
484	UBLIN	A580	Category R/S airspace to Category R FIR TOC Point	30		YBBB	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
485	RUMIX	B333	Category R/S airspace to Category R FIR TOC Point	30		YBBB	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
486	VESUN	B580/ B601	Category R/S airspace to Category R FIR TOC Point	30		YBBB	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
487	TEBUR	B578/ B602	Category R/S airspace to Category R FIR TOC Point	30		YBBB	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
488	MEPAB	74/ R587/ G5	Category R/S airspace to Category R FIR TOC Point	30		YBBB	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
489	BODEG	B586	Category R/S airspace to Category R FIR TOC Point	30		YBBB	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
490	ENOUS	A597	Category R/S airspace to Category R FIR TOC Point	30		YBBB	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
491	NIPER	B598	Category R/S airspace to Category R FIR TOC Point	30		YBBB	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
492	AKNAK	R450	Category R/S airspace to Category R FIR TOC Point	30		YBBB	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
493	LEGOT	R599/ B452	Category R/S airspace to Category R FIR TOC Point	30		YBBB	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
494	KAPNO	B590	Category R/S airspace to Category R FIR TOC Point	30		YBBB	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
495	BULRO	G223	Category R/S airspace to Category R FIR TOC Point	30		YBBB	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
496	UPDIX	A584	Category R/S airspace to Category R FIR TOC Point	30		YBBB	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
497	LEPKA	B326	Category R/S airspace to Category R FIR TOC Point	30		YBBB	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
498	KASKU	A578	Category R/S airspace to Category R FIR TOC Point	30		YBBB	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
499	VAVEE	R332	Category R/S airspace to Category R FIR TOC Point	30		KZAK	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
500	NIXAM	B326	Category R/S airspace to Category R FIR TOC Point	30		KZAK	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant

501	ARTOP	B474	Category R/S airspace to Category R FIR TOC Point	30	KZAK	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
502	BOILS	B580	Category R/S airspace to Category R FIR TOC Point	30	KZAK	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
503	CUFFY	A579	Category R/S airspace to Category R FIR TOC Point	30	KZAK	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
504	GOMIK	B581	Category R/S airspace to Category R FIR TOC Point	30	NZZO	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
505	KETUS	A584	Category R/S airspace to Category R FIR TOC Point	30	NZZO	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
506	OVLAD	B577	Category R/S airspace to Category R FIR TOC Point	30	NZZO	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
507	IDNIP	R453	Category R/S airspace to Category R FIR TOC Point	30	NZZO	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
508	DOMAX	A580	Category R/S airspace to Category R FIR TOC Point	30	NZZO	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
509	BODER	G224	Category R/S airspace to Category R FIR TOC Point	30	NZZO	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
510	VIMEK	B599	Category R/S airspace to Category R FIR TOC Point	30	NZZO	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
511	ESDOX	G593/ G223	Category R/S airspace to Category R FIR TOC Point	30	NZZO	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
512	SOVRA	B450	Category R/S airspace to Category R FIR TOC Point	30	NZZO	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
513	TAXIS	B598	Category R/S airspace to Category R FIR TOC Point	30	NZZO	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
514	GURDI	B451/ B578	Category R/S airspace to Category R FIR TOC Point	30	NZZO	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
515	EGATO	A580	Category R/S airspace to Category R FIR TOC Point	30	NZZO	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
516	POREN	A578	Category R/S airspace to Category R FIR TOC Point	30	NZZO	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
517	DOLSI	B450/ B451	Category R/S airspace to Category R FIR TOC Point	30	NZZO	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
518	TERUX	G224	Category R/S airspace to Category R FIR TOC Point	30	NZZO	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
519	SADIM	R599	Category R/S airspace to Category R FIR TOC Point	30	NZZO	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
520	LEKAX	A597	Category R/S airspace to Category R FIR TOC Point	30	NZZO	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
521	OSVAR	G591	Category R/S airspace to Category R FIR TOC Point	30	NZZO	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
522	UBDAK	G329	Category R/S airspace to Category R FIR TOC Point	30	NZZO	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
523	LEBOL	B333	Category R/S airspace to Category R FIR TOC Point	30	NZZO	Both aircraft to be equipped RNP 4 and ADS-C	Nadi	Compliant
524	ALL	N/A UPRs	Category R/S airspace to Category R FIR TOC Point	30 NM	Anchorage Continental FIR	There are no routes that cross this FIR boundary. All aircraft are on User Preferred Random Routes	USA, Oakland	Compliant
525	ALL	N/A UPRs	Category R/S airspace to Category R FIR TOC Point	30 NM	Anchorage Oceanic FIR	There are no routes that cross this FIR boundary. All aircraft are on User Preferred Random Routes	USA, Oakland	Compliant
526	BEEBO	G223	Category R/S airspace to Category R FIR TOC Point	30 NM	Fukuoka Oceanic FIR		USA, Oakland	Compliant
527	ATIGO	B452	Category R/S airspace to Category R FIR TOC Point	30 NM	Fukuoka Oceanic FIR		USA, Oakland	Compliant
528	TEGOD	A337	Category R/S airspace to Category R FIR TOC Point	30 NM	Fukuoka Oceanic FIR		USA, Oakland	Compliant
529	OMLET	B586	Category R/S airspace to Category R FIR TOC Point	30 NM	Fukuoka Oceanic FIR		USA, Oakland	Compliant
530	MONPI	A597	Category R/S airspace to Category R FIR TOC Point	30 NM	Fukuoka Oceanic FIR		USA, Oakland	Compliant
531	PAKDO	G339	Category R/S airspace to Category R FIR TOC Point	30 NM	Fukuoka Oceanic FIR		USA, Oakland	Compliant

532	KEITH	39, R584, R5	Category R/S airspace to Category R FIR TOC Point	30 NM	Fukuoka Oceanic FIR		USA, Oakland	Compliant
533	Random crossing Points	UPRs	Category R/S airspace to Category R FIR TOC Point	30 NM	Fukuoka Oceanic FIR	There are long segments of the FIR boundary without routes or waypoints on the boundary. Aircraft may flight plan optimized User Preferred Routes crossing the FIR with the 30 NM separation..	USA, Oakland	Compliant
534	LIMLE	M501	Category R/S airspace to Category R FIR TOC Point	30 NM	Manila FIR	Oakland Oceanic also accepts UPRs crossing the Manila FIR Boundary with the 30 NM separation.	USA, Oakland	Compliant
535	ENDAX	G467	Category R/S airspace to Category R FIR TOC Point	30 NM	Manila FIR	Oakland Oceanic also accepts UPRs crossing the Manila FIR Boundary	USA, Oakland	Compliant
536	ISGOG	R337	Category R/S airspace to Category R FIR TOC Point	30 NM	Manila FIR	Oakland Oceanic also accepts UPRs crossing the Manila FIR Boundary with the 30 NM separation.	USA, Oakland	Compliant
537	OLBIE	M576	Category R/S airspace to Category R FIR TOC Point	30 NM	Manila FIR	Oakland Oceanic also accepts UPRs crossing the Manila FIR Boundary with the 30 NM separation.	USA, Oakland	Compliant
538	SHREE	39, R584, R5	Category R/S airspace to Category R FIR TOC Point	30 NM	Manila FIR	Oakland Oceanic also accepts UPRs crossing the Manila FIR Boundary with the 30 NM separation.	USA, Oakland	Compliant
539	CAHYO	A450	Category R/S airspace to Category R FIR TOC Point	30 NM	Ujung Pandang FIR	Oakland Oceanic also accepts UPRs crossing the Ujung Pandang FIR Boundary with the 30 NM separation.	USA, Oakland	Compliant
540	KALIN	R204	Category R/S airspace to Category R FIR TOC Point	30 NM	Port Moresby FIR	Oakland Oceanic also accepts UPRs crossing the Port Moresby FIR Boundary with the 30 NM separation.	USA, Oakland	Compliant
541	FACED	A216	Category R/S airspace to Category R FIR TOC Point	30 NM	Port Moresby FIR	Oakland Oceanic also accepts UPRs crossing the Port Moresby FIR Boundary with the 30 NM separation.	USA, Oakland	Compliant
542	PIKOK	B586	Category R/S airspace to Category R FIR TOC Point	30 NM	Port Moresby FIR	Oakland Oceanic also accepts UPRs crossing the Port Moresby FIR Boundary with the 30 NM separation.	USA, Oakland	Compliant
543	RUTUS	G205	Category R/S airspace to Category R FIR TOC Point	30 NM	Port Moresby FIR	Oakland Oceanic also accepts UPRs crossing the Port Moresby FIR Boundary with the 30 NM separation.	USA, Oakland	Compliant
544	ADBON	A597	Category R/S airspace to Category R FIR TOC Point	30 NM	Port Moresby FIR	Oakland Oceanic also accepts UPRs crossing the Port Moresby FIR Boundary with the 30 NM separation.	USA, Oakland	Compliant
545	DOHRT	B452	Category R/S airspace to Category R FIR TOC Point	30 NM	Port Moresby FIR	Oakland Oceanic also accepts UPRs crossing the Port Moresby FIR Boundary with the 30 NM separation.	USA, Oakland	Compliant
546	FENSE	A578	Category R/S airspace to Category R FIR TOC Point	30 NM	Nauru FIR	Oakland Oceanic also accepts UPRs crossing the Nauru FIR Boundary with the 30 NM separation.	USA, Oakland	Compliant
547	MUBIT	G223	Category R/S airspace to Category R FIR TOC Point	30 NM	Nauru FIR	Oakland Oceanic also accepts UPRs crossing the Nauru FIR Boundary with the 30 NM separation.	USA, Oakland	Compliant
548	MARTI	A598	Category R/S airspace to Category R FIR TOC Point	30 NM	Nauru FIR	Oakland Oceanic also accepts UPRs crossing the Nauru FIR Boundary with the 30 NM separation.	USA, Oakland	Compliant
549	VAVEE	R332	Category R/S airspace to Category R FIR TOC Point	30 NM	Nadi FIR	Oakland Oceanic also accepts UPRs crossing the Nadi FIR Boundary with the 30 NM separation.	USA, Oakland	Compliant
550	NIXAM	B326	Category R/S airspace to Category R FIR TOC Point	30 NM	Nadi FIR	Oakland Oceanic also accepts UPRs crossing the Nadi FIR Boundary with the 30 NM separation.	USA, Oakland	Compliant

551	ARTOP	B474	Category R/S airspace to Category R FIR TOC Point	30 NM	Nadi FIR	Oakland Oceanic also accepts UPRs crossing the Nadi FIR Boundary with the 30 NM separation.	USA, Oakland	Compliant
552	BOILS	B580	Category R/S airspace to Category R FIR TOC Point	30 NM	Nadi FIR	Oakland Oceanic also accepts UPRs crossing the Nadi FIR Boundary with the 30 NM separation.	USA, Oakland	Compliant
553	CUFFY	A579	Category R/S airspace to Category R FIR TOC Point	30 NM	Nadi FIR	Oakland Oceanic also accepts UPRs crossing the Nadi FIR Boundary with the 30 NM separation.	USA, Oakland	Compliant
554	DUNEY	G347	Category R/S airspace to Category R FIR TOC Point	30 NM	Auckland Oceanic FIR	Oakland Oceanic also accepts UPRs crossing the Auckland Oceanic FIR Boundary with the 30 NM separation.	USA, Oakland	Compliant
555	WOOPY	B581	Category R/S airspace to Category R FIR TOC Point	30 NM	Auckland Oceanic FIR	Oakland Oceanic also accepts UPRs crossing the Auckland Oceanic FIR Boundary with the 30 NM separation.	USA, Oakland	Compliant
556	ELMS	G457	Category R/S airspace to Category R FIR TOC Point	30 NM	Auckland Oceanic FIR	Oakland Oceanic also accepts UPRs crossing the Auckland Oceanic FIR Boundary with the 30 NM separation.	USA, Oakland	Compliant
557	PASSA	B577	Category R/S airspace to Category R FIR TOC Point	30 NM	Auckland Oceanic FIR	Oakland Oceanic also accepts UPRs crossing the Auckland Oceanic FIR Boundary with the 30 NM separation.	USA, Oakland	Compliant
558	RAMIZ	B596	Category R/S airspace to Category R FIR TOC Point	30 NM	Auckland Oceanic FIR	Oakland Oceanic also accepts UPRs crossing the Auckland Oceanic FIR Boundary with the 30 NM separation.	USA, Oakland	Compliant
559	TENOR	B595	Category R/S airspace to Category R FIR TOC Point	30 NM	Tahiti FIR	Oakland Oceanic also accepts UPRs crossing the Tahiti FIR Boundary with the 30 NM separation.	USA, Oakland	Compliant
560	BISOX	B200	Category R/S airspace to Category R FIR TOC Point	30 NM	Tahiti FIR	Oakland Oceanic also accepts UPRs crossing the Tahiti FIR Boundary with the 30 NM separation.	USA, Oakland	Compliant
561	UPNAR	B454	Category R/S airspace to Category R FIR TOC Point	30 NM	Tahiti FIR	Oakland Oceanic also accepts UPRs crossing the Tahiti FIR Boundary with the 30 NM separation.	USA, Oakland	Compliant
562	MAEVA	A220	Category R/S airspace to Category R FIR TOC Point	30 NM	Tahiti FIR	Oakland Oceanic also accepts UPRs crossing the Tahiti FIR Boundary with the 30 NM separation.	USA, Oakland	Compliant
563	WIBIG	G575	Category R/S airspace to Category R FIR TOC Point	30 NM	Tahiti FIR	Oakland Oceanic also accepts UPRs crossing the Tahiti FIR Boundary with the 30 NM separation.	USA, Oakland	Compliant
564	Random crossing Points	UPRs	Category R/S airspace to Category R FIR TOC Point	30 NM	Mazatlan FIR	There are no routes that cross the Oakland/Mazatlan FIR boundary. Oakland Oceanic accepts UPRs crossing the FIR Boundary with the 30 NM separation.	USA, Oakland	Compliant
565	FICKY	R578,B581, B577,B200, B454,G575	Category R/S airspace to Category R FIR TOC Point	30 NM	Los Angeles FIR		USA, Oakland	Compliant
566	ELKEY	R577	Category R/S airspace to Category R FIR TOC Point	30 NM	Los Angeles FIR		USA, Oakland	Compliant
567	DINTY	R576	Category R/S airspace to Category R FIR TOC Point	30 NM	Los Angeles FIR		USA, Oakland	Compliant
568	AUDIA	R585	Category R/S airspace to Category R FIR TOC Point	30 NM	Los Angeles FIR		USA, Oakland	Compliant
569	MAFIC	A220	Category R/S airspace to Category R FIR TOC Point	30 NM	Oakland Domestic FIR		USA, Oakland	Compliant
570	CREAN	R465	Category R/S airspace to Category R FIR TOC Point	30 NM	Oakland Domestic FIR		USA, Oakland	Compliant
571	BAART	R464	Category R/S airspace to Category R FIR TOC Point	30 NM	Oakland Domestic FIR		USA, Oakland	Compliant
572	ALLBE	R463	Category R/S airspace to Category R FIR TOC Point	30 NM	Oakland Domestic FIR		USA, Oakland	Compliant

573	Random crossing Points	UPRs	Category R/S airspace to Category R FIR TOC Point	30 NM	Oakland Domestic FIR	There are many waypoints north of the CEP Routes where aircraft utilize UPRs and flexible tracks crossing the FIR. Oakland accepts the 30 NM minima for these UPRs and Flexible Tracks.	USA, Oakland	Compliant
574	Random crossing Points	UPRs	Category R/S airspace to Category R FIR TOC Point	30 NM	Seattle FIR	There are many waypoints on the Seattle FIR boundary where aircraft utilize UPRs and flexible tracks crossing the FIR. Oakland accepts the 30 NM minima for these UPRs and Flexible Tracks.	USA, Oakland	Compliant
575	HEMLO	A332	Category R/S airspace to Category R FIR TOC Point	30 NM	Seattle FIR		USA, Oakland	Compliant
576	SEDAR	A331	Category R/S airspace to Category R FIR TOC Point	30 NM	Seattle FIR		USA, Oakland	Compliant
577	KYLLE	B453	Category R/S airspace to Category R FIR TOC Point	30 NM	Seattle FIR		USA, Oakland	Compliant
578	KANUA	B453	Category R/S airspace to Category R FIR TOC Point	30 NM	Vancouver FIR		USA, Oakland	Compliant
579	Random crossing Points	UPRs	Category R/S airspace to Category R FIR TOC Point	30 NM	Vancouver FIR	There are many waypoints on the Vancouver FIR boundary where aircraft utilize UPRs and flexible tracks crossing the FIR. Oakland accepts the 30 NM minima for these UPRs and Flexible Tracks.	USA, Oakland	Compliant
580	PASRO	A590	Category R/S airspace to Category R FIR TOC Point	30 NM	Fukuoka Oceanic FIR		USA, Anchorage	Compliant
581	AKISU	R591	Category R/S airspace to Category R FIR TOC Point	30 NM	Fukuoka Oceanic FIR		USA, Anchorage	Compliant
582	CUTEE	G344	Category R/S airspace to Category R FIR TOC Point	30 NM	Fukuoka Oceanic FIR		USA, Anchorage	Compliant
583	ALL	N/A UPRs	Category R/S airspace to Category R FIR TOC Point	30 NM	Oakland Oceanic FIR	There are no routes that cross this FIR boundary. All aircraft are on User Preferred Random Routes	USA, Anchorage	Compliant
584	LYYLE	R336	Category R/S airspace to Category R FIR TOC Point	30 NM	Anchorage Continental FIR	Waypoint LYYLE is close to the FIR Boundary but not on the FIR	USA, Anchorage	Compliant
585	CHIPT	G344	Category R/S airspace to Category R FIR TOC Point	30 NM	Anchorage Continental FIR	Waypoint CHIPT is close to the FIR Boundary but not on the FIR	USA, Anchorage	Compliant
586	AAMYY	R591, R451	Category R/S airspace to Category R FIR TOC Point	30 NM	Anchorage Continental FIR	Waypoint AAMYY is close to the FIR Boundary but not on the FIR	USA, Anchorage	Compliant
587	PLADO	A590, G215	Category R/S airspace to Category R FIR TOC Point	30 NM	Anchorage Continental FIR	Waypoint PLADO is close to the FIR Boundary but not on the FIR	USA, Anchorage	Compliant
588	OPAKE	R580, A342	Category R/S airspace to Category R FIR TOC Point	30 NM	Anchorage Continental FIR		USA, Anchorage	Compliant
589	NYMPH	A342, G469	Category R/S airspace to Category R FIR TOC Point	30 NM	Anchorage Continental FIR	Waypoint NYMPH is close to the FIR Boundary but not on the FIR	USA, Anchorage	Compliant
590	KUNAD	no route	Category R/S airspace to Category R FIR TOC Point	30 NM	Petropavlovsk Kamchatsky FIR	There are no routes that cross this FIR boundary. All aircraft are on User Preferred Random Routes	USA, Anchorage	Compliant
591	LUMES	no route	Category R/S airspace to Category R FIR TOC Point	30 NM	Petropavlovsk Kamchatsky FIR	There are no routes that cross this FIR boundary. All aircraft are on User Preferred Random Routes	USA, Anchorage	Compliant
592	ARAMA	A464	Category S airspace to Category S FIR TOC Point	10NM	Kuala Lumpur		Singapore	Compliant
593	DUDIS	L644	Category S airspace to Category S FIR TOC Point	10 minutes Mach Number Technique	Ho Chi Minh	Route transit multiple FIRs. Singapore able to reduce longitudinal separation at TOC point.	Singapore	not compliant
594	ESPOB	L642	Category S airspace to Category S FIR TOC Point	20NM	Ho Chi Minh		Singapore	not compliant
595	IGARI	N891	Category S airspace to Category S FIR TOC Point	10 minutes Mach Number Technique	Ho Chi Minh	Singapore able to reduce longitudinal separation at TOC point.	Singapore	not compliant
596	IGARI	M765	Category S airspace to Category S FIR TOC Point	N/A	Ho Chi Minh	Portion of M765 within the Singapore FIR delegated to Kuala Lumpur ACC for provision of ATS.	Singapore	N/A
597	IGARI	R208	Category S airspace to Category S FIR TOC Point	N/A	Ho Chi Minh	Portion of R208 within the Singapore FIR released to Kuala Lumpur ACC daily subject to coordination between Singapore ACC and Lumpur ACC.	Singapore	N/A

598	IKUKO	R208	Category S airspace to Category S FIR TOC Point	N/A	Kuala Lumpur	Portion of R208 within the Singapore FIR released to Kuala Lumpur ACC daily subject to coordination between Singapore ACC and Lumpur ACC.	Singapore	N/A
599	IPRIX	M753	Category S airspace to Category S FIR TOC Point	20NM	Ho Chi Minh		Singapore	not compliant
600	KADAR	M774	Category S airspace to Category S FIR TOC Point	50NM based on RNP10 operations	Jakarta	Singapore able to reduce longitudinal separation at TOC point.	Singapore	not compliant
601	MELAS	N892	Category S airspace to Category S FIR TOC Point	20NM	Ho Chi Minh		Singapore	not compliant
602	MIBEL	L762	Category S airspace to Category S FIR TOC Point	20NM	Jakarta		Singapore	not compliant
603	PARDI	G579	Category S airspace to Category S FIR TOC Point	20NM	Jakarta		Singapore	not compliant
604	PIDON	W22	Category S airspace to Category S FIR TOC Point	20NM	Jakarta		Singapore	not compliant
605	REKOP	A576	Category S airspace to Category S FIR TOC Point	10NM	Kuala Lumpur		Singapore	Compliant
606	SUKRI	M630	Category S airspace to Category S FIR TOC Point	10NM	Kuala Lumpur		Singapore	Compliant
607	SURGA	M635	Category S airspace to Category S FIR TOC Point	50NM based on RNP10 operations	Jakarta	Singapore able to reduce longitudinal separation at TOC point.	Singapore	not compliant
608	TAROS	R469	Category S airspace to Category S FIR TOC Point	20NM	Jakarta		Singapore	not compliant
609	TIDAR	M904	Category S airspace to Category S FIR TOC Point	10 minutes Mach Number Technique	Bangkok	Singapore able to reduce longitudinal separation at TOC point.	Singapore	not compliant
610	VPK	L629	Category S airspace to Category S FIR TOC Point	20NM	Kuala Lumpur		Singapore	not compliant
611	VPK	M758	Category S airspace to Category S FIR TOC Point	20NM	Kuala Lumpur		Singapore	not compliant
612	VPK	M761	Category S airspace to Category S FIR TOC Point	20NM	Kuala Lumpur		Singapore	not compliant
613	NUFFA	Y514	Category S airspace to Category S FIR TOC Point	40NM	Kuala Lumpur		Singapore	not compliant
614	108E Longtiude (SABIP)	M761	Category S airspace to Category S FIR TOC Point	10 minutes Mach Number Technique	Kota Kinabalu		Singapore	not compliant
615	108E Longtiude (NIMIX)	G580	Category S airspace to Category S FIR TOC Point	10 minutes Mach Number Technique	Kota Kinabalu		Singapore	not compliant
616	AKMON	M768	Category R/S airspace to Category R FIR TOC Point	10 minutes Mach Number Technique	Ho Chi Minh		Singapore	not compliant
617	ARUPA	N875	Category R/S airspace to Category R FIR TOC Point	10 minutes Mach Number Technique	Jakarta		Singapore	not compliant
618	ASISU	M768	Category R/S airspace to Category R FIR TOC Point	10 minutes Mach Number Technique	Kota Kinabalu		Singapore	not compliant
619	ASISU	M772	Category R/S airspace to Category R FIR TOC Point	10 minutes Mach Number Technique	Kota Kinabalu		Singapore	not compliant
620	BAVUS	L504	Category R/S airspace to Category R FIR TOC Point	10 minutes Mach Number Technique	Jakarta		Singapore	not compliant
621	DAKIX	L649	Category R/S airspace to Category R FIR TOC Point	10 minutes Mach Number Technique	Kota Kinabalu		Singapore	not compliant
622	GULIB	L517	Category R/S airspace to Category R FIR TOC Point	10 minutes Mach Number Technique	Kota Kinabalu		Singapore	not compliant
623	KAMIN	M646	Category R/S airspace to Category R FIR TOC Point	10 minutes Mach Number Technique	Kota Kinabalu		Singapore	not compliant
624	NODIN	M522	Category R/S airspace to Category R FIR TOC Point	N/A	Kota Kinabalu	Portion of M522 within Singapore FIR delegated to Kota Kinabalu ACC for provision of ATS.	Singapore	N/A
625	OLKIT	M758	Category R/S airspace to Category R FIR TOC Point	10 minutes Mach Number Technique	Kota Kinabalu		Singapore	not compliant
626	SUMLA	M754	Category R/S airspace to Category R FIR TOC Point	N/A	Kota Kinabalu	Portion of M754 within Singapore FIR delegated to Kota Kinabalu ACC for provision of ATS.	Singapore	N/A
627	TEGID	M767	Category R/S airspace to Category R FIR TOC Point	30NM based on RNP4 operations	Manila	On trial from 27 Jan to 20 Apr 2022. Planned implementation: 21 Apr 2022.	Singapore	Compliant
628	VINIK	M754	Category R/S airspace to Category R FIR TOC Point	N/A	Ho Chi Minh	Portion of M754 within Singapore FIR delegated to Kota Kinabalu ACC for provision of ATS.	Singapore	N/A