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CONTINGENCY PLANNING IN LISBON ACC (CONFLICT FREE FL ALLOCATION SCHEME)

1. General

The Portuguese Air Traffic Services Contingency Planning is based on strict operating criteria. Its method, structure and applicability are universal and based on the consequences of technical or catastrophic failures that may occur in the Air Navigation System. It contains material dealing with planning for TMA's and En-Route contingencies.

Whenever a contingency occurs, CFMU and Madrid, Sevilha, Casablanca and S. Maria ACC's will be informed accordingly.

The **Conflict Free FL Allocation Scheme** route structure will apply to all scenarios.

2. Types of contingency

According to ATS resources remaining after a contingency situation has occurred, three scenarios have been identified:

- **Scenario 1:** Radar failure and all frequencies normal (Degraded Mode Of Operations).
- **Scenario 2:** Radar failure, last resort frequency equipment in use and LPMAD without frequency (Degraded Mode of Operations).
- **Scenario 3:** Radar and frequencies failure. (Emergency Mode of Operations) Lisbon, Porto, Faro and Madeira Towers maintain radar and frequencies. With this scenario, ATS services (Information and Alert Services only) will be provided from Control Towers.

Another para

2.1 Scenarios of Contingency and Capacities:

2.1.1 Scenario 1:

Radar failure and all frequencies normal.

Sectors	Aircraft / Hour	Frequency
LPNOR	19	132.300
LPNORCE	14	132.300
LPCEN	19	136.025
LPSULCE	13	125.550
LPSUL	19	125.550
LPDEMOS	16	128.900
LPOESTE	13	128.900
LPVERAM	16	131.325
LPMAD	9	132.250
LPLESTE	13	125.550
LPPTTMA	12	120.600

2.1.2 Scenario 2

Radar failure, last resort frequency equipment in use and LPMAD without frequency.

Sectors	Aircraft / Hour	Frequency
LPNOR	13	132.300
LPNORCE	10	132.300
LPCEN	13	136.025
LPSULCE	9	125.550
LPSUL	13	125.550
LPDEMOS	11	128.900
LPOESTE	9	128.900
LPVERAM	11	131.325
LPMAD	6	132.250
LPLESTE	9	125.550
LPPTTMA	8	120.600

2.1.3 Scenario 3:

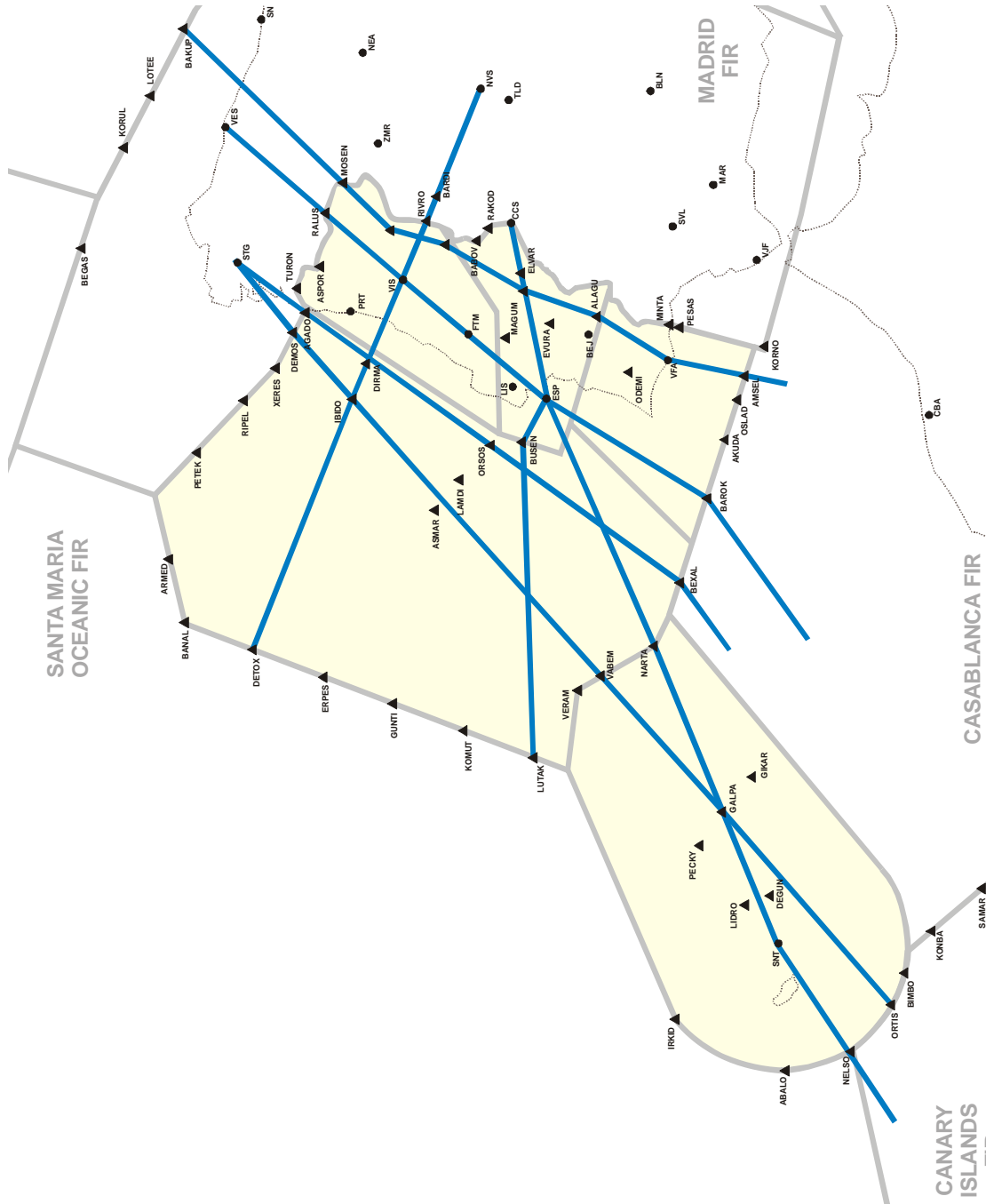
Radar and frequencies failure (Catastrophic failure).

Lisbon, Porto, Faro and Madeira Towers maintain radar and frequencies.

With this scenario, ATS services will be provided from Control Towers.

Sectors	Aircraft / Hour	ATC Unit	Frequency
LPNOR / LPUPPER	N / D	Porto APP	132.300 -127.255
LPPTTMA / LPOESTE	N / D	Lisboa TWR	120.600 - 128.900
LPCEN / LPSUL	N / D	Faro APP	136.025 - 125.550
LPMAD	N / D	Madeira APP	132.250

3 Contingency ATS route structure:
3.1 OVERFLYING "SOUTHBOUND".



OVERFLYING SOUTHBOUND	
Entry Point	DEMOS
Exit Point	ORTIS
Route Seq.	<ul style="list-style-type: none">• DEMOS• IBIDO• VABEM• ORTIS
Enroute FL	FL350 / 370 / 390
Obs.	

OVERFLYING SOUTHBOUND	
Entry Point	AGADO
Exit Point	BEXAL
Route Seq.	<ul style="list-style-type: none">• AGADO• ORSOS• BEXAL
Enroute FL	FL350 / 370 / 390
Obs.	

OVERFLYING SOUTHBOUND	
Entry Point	RALUS
Exit Point	BAROK
Route Seq.	<ul style="list-style-type: none">• RALUS• VIS• FTM• ESP• BAROK
Enroute FL	FL350 / 370 / 390
Obs.	

OVERFLYING SOUTHBOUND	
Entry Point	MOSEN
Exit Point	AMSEL
Route Seq.	<ul style="list-style-type: none">• MOSEN• BABEX• PINOX• PORLI• ALAGU• VFA• AMSEL
Enroute FL	FL350 / 370 / 390
Obs.	

OVERFLYING SOUTHBOUND	
Entry Point	RIVRO
Exit Point	DETOX
Route Seq.	<ul style="list-style-type: none"> • RIVRO • VIS • DIRMA • IBIDO • DETOX
Enroute FL	FL290
Obs.	

OVERFLYING SOUTHBOUND	
Entry Point	CCS
Exit Point	LUTAK
Route Seq.	<ul style="list-style-type: none"> • CCS • ELVAR • BIRBA • TAGUX • ATECA • ESP • BUSEN • LUTAK
Enroute FL	FL290
Obs.	

OVERFLYING SOUTHBOUND	
Entry Point	CCS
Exit Point	NELSO
Route Seq.	<ul style="list-style-type: none"> • CCS • ELVAR • BIRBA • TAGUX • ATECA • ESP • GANSU • NARTA • ROLAR • LIDRO • SNT • NELSO
Enroute FL	FL290
Obs.	

OVERFLYING NORTHBOUND	
Entry Point	DETOX
Exit Point	RIVRO
Route Seq.	<ul style="list-style-type: none"> • DETOX • IBIDO • DIRMA • VIS • RIVRO
Enroute FL	FL320 / 380
Obs.	

OVERFLYING NORTHBOUND	
Entry Point	KOMUT
Exit Point	RAKOD
Route Seq.	<ul style="list-style-type: none"> • KOMUT • TABAX • BUSEN • LIS • MAGUM • MOMAS • PORLI • RODAP • RAKOD
Enroute FL	FL320 / 380
Obs.	

OVERFLYING NORTHBOUND	
Entry Point	ABALO
Exit Point	XERES
Route Seq.	<ul style="list-style-type: none"> • ABALO • PELUS • OBESA • XANEL • XERES
Enroute FL	FL340 / 360
Obs.	

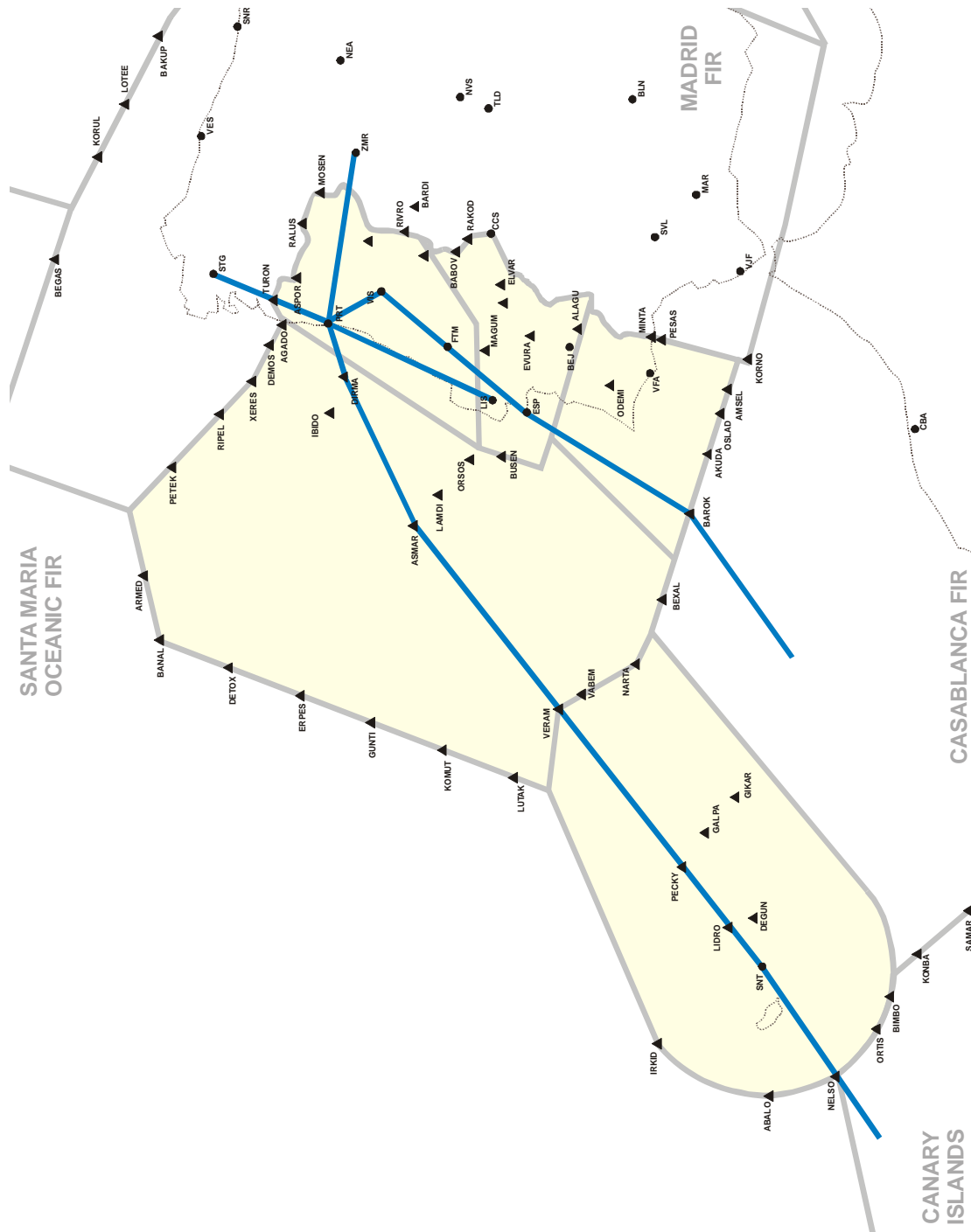
OVERFLYING NORTHBOUND	
Entry Point	BEXAL
Exit Point	AGADO
Route Seq.	<ul style="list-style-type: none"> • BEXAL • ORSOS • TERVA • AGADO
Enroute FL	FL340 / 360
Obs.	

OVERFLYING NORTHBOUND	
Entry Point	BAROK
Exit Point	BABOV
Route Seq.	<ul style="list-style-type: none">• BAROK• SUNES• SOTEX• EVURA• BIRBA• PORTA• RODAP• BABOV
Enroute FL	FL340
Obs.	

OVERFLYING NORTHBOUND	
Entry Point	AKUDA
Exit Point	BABOV
Route Seq.	<ul style="list-style-type: none">• AKUDA• VFA• ALAGU• ELVAR• RODAP• BABOV
Enroute FL	FL360
Obs.	

OVERFLYING NORTHBOUND	
Entry Point	AKUDA
Exit Point	PESAS
Route Seq.	<ul style="list-style-type: none">• AKUDA• OBOLO• PESAS
Enroute FL	FL340 / 360 /380
Obs.	

3.3 DEPARTURES FROM PORTO



EXIT PORTO	
Origin	LPPR
Exit Point	TURON
Route Seq.	<ul style="list-style-type: none">• PRT• TURON
Enroute FL	FL160
Obs.	

EXIT PORTO	
Origin	LPPR
Exit Point	ADORO
Route Seq.	<ul style="list-style-type: none">• PRT• CANAR• ADORO
Enroute FL	FL280
Obs.	

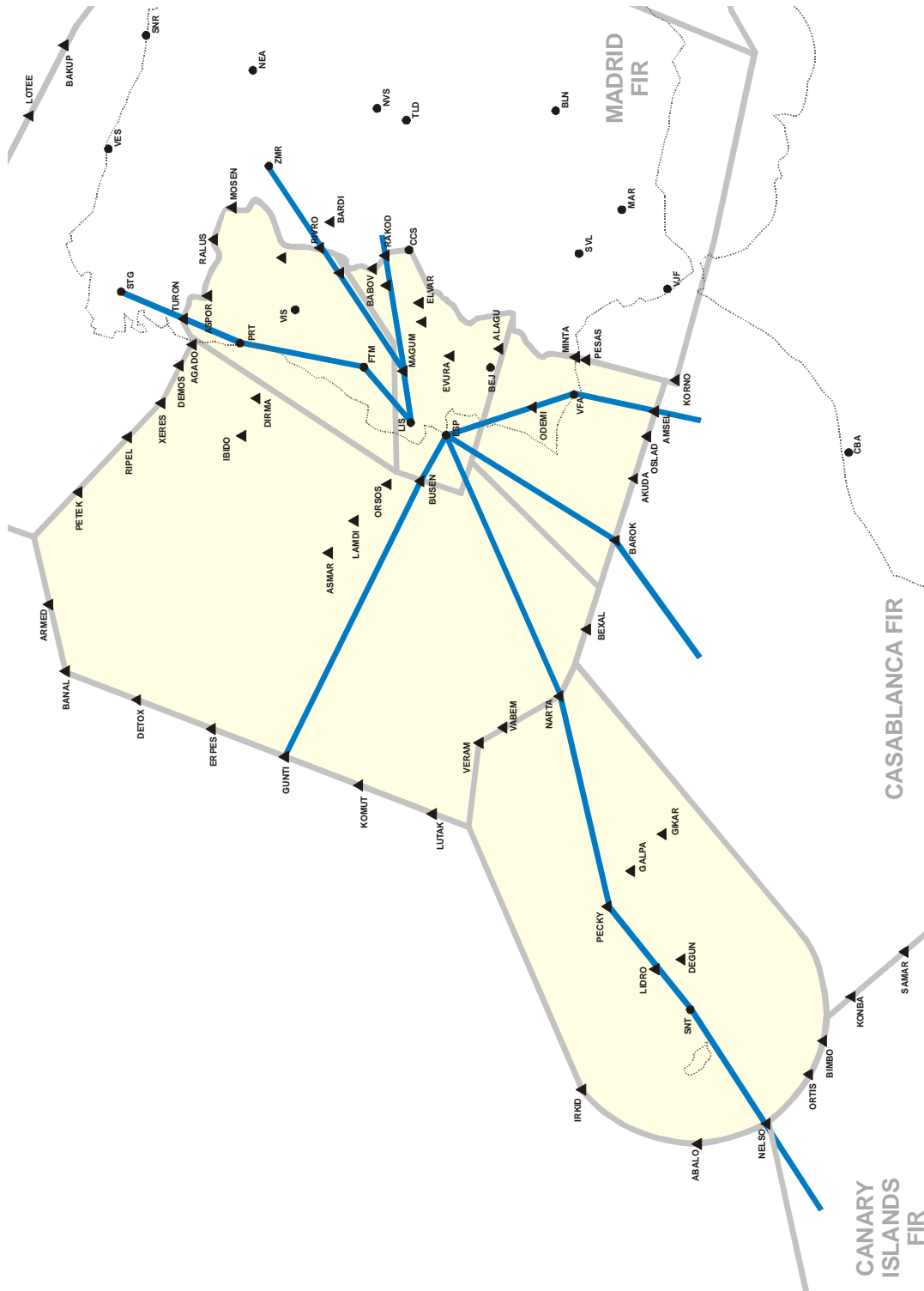
EXIT PORTO	
Origin	LPPR
Destination	LPPT
Route Seq.	<ul style="list-style-type: none">• PRT• LIS
Enroute FL	FL190
Obs.	

EXIT PORTO	
Origin	LPPR
Destination	LPMA / LPPS
Route Seq.	<ul style="list-style-type: none">• PRT• DCT DIRMA• DCT ASMAR• VERAM• TELMU• PECKY• LIDRO• SNT
Enroute FL	FL310
Obs.	

EXIT PORTO	
Origin	LPPR
Exit Point	BAROK
Route Seq.	<ul style="list-style-type: none">• PRT• DCT VIS• FTM• ESP• BAROK
Enroute FL	FL270
Obs.	

EXIT PORTO	
Origin	LPPR
Exit Point	NELSO
Route Seq.	<ul style="list-style-type: none">• PRT• DCT DIRMA• DCT ASMAR• VERAM• TELMU• PECKY• LIDRO• SNT• NELSO
Enroute FL	FL310
Obs.	

3.4 DEPARTURES FROM LISBOA



EXIT LISBOA	
Origin	LPPT
Exit Point	TURON
Route Seq.	<ul style="list-style-type: none"> • FTM • PRT • TURON
Enroute FL	FL260
Obs.	

EXIT LISBOA	
Origin	LPPT
Destination	LPPR
Route Seq.	<ul style="list-style-type: none"> • FTM • PRT
Enroute FL	FL180
Obs.	

EXIT LISBOA	
Origin	LPPT
Exit Point	RIVRO
Route Seq.	<ul style="list-style-type: none"> • MAGUM • ABRAT • PINOX • RIVRO
Enroute FL	FL280
Obs.	

EXIT LISBOA	
Origin	LPPT
Exit Point	RAKOD
Route Seq.	<ul style="list-style-type: none"> • MAGUM • MOMAS • RODAP • RAKOD
Enroute FL	FL280
Obs.	

EXIT LISBOA	
Origin	LPPT
Exit Point	AMSEL
Route Seq.	<ul style="list-style-type: none"> • ESP • VFA • AMSEL
Enroute FL	FL210 / 290
Obs.	

EXIT LISBOA	
Origin	LPPT
Destination	LPFR
Route Seq.	<ul style="list-style-type: none"> • ESP • VFA
Enroute FL	FL170
Obs.	

EXIT LISBOA	
Origin	LPPT
Exit Point	BAROK
Route Seq.	<ul style="list-style-type: none"> • ESP • BAROK
Enroute FL	FL310
Obs.	

EXIT LISBOA	
Origin	LPPT
Exit Point	NELSO
Route Seq.	<ul style="list-style-type: none"> • ESP • NARTA • PECKY • LIDRO • SNT • NELSO
Enroute FL	FL290
Obs.	

EXIT LISBOA	
Origin	LPPT
Destination	LPMA / LPPS
Route Seq.	<ul style="list-style-type: none"> • ESP • NARTA • PECKY • LIDRO • SNT
Enroute FL	FL290
Obs.	

EXIT LISBOA	
Origin	LPPT
Exit Point	GUNTI
Route Seq.	<ul style="list-style-type: none">• BUSEN• NEGRI• GUNTI
Enroute FL	FL290
Obs.	

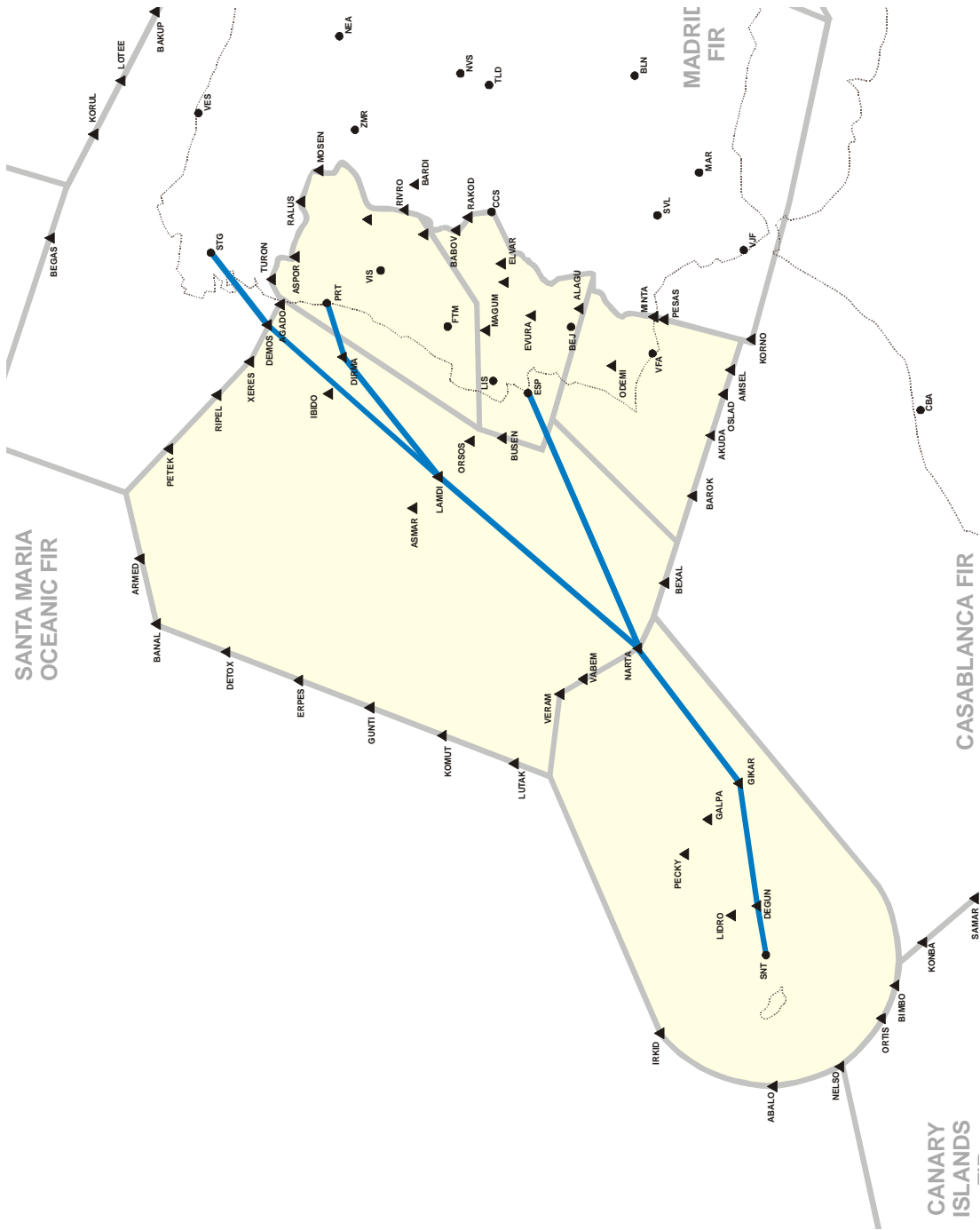
EXIT FARO	
Origin	LPFR
Exit Point	MINTA
Route Seq.	<ul style="list-style-type: none"> • VFA • MINTA
Enroute FL	FL120
Obs.	

EXIT FARO	
Origin	LPFR
Exit Point	BABOV
Route Seq.	<ul style="list-style-type: none"> • VFA • ELDUK • BEJ • EVURA • BIRBA • PORTA • RODAP • BABOV
Enroute FL	FL300
Obs.	

EXIT FARO	
Origin	LPFR
Destination	LPPT
Route Seq.	<ul style="list-style-type: none"> • VFA • ESP
Enroute FL	FL160
Obs.	

EXIT FARO	
Origin	LPFR
Exit Point	TURON
Route Seq.	<ul style="list-style-type: none"> • VFA • ELDUK • BEJ • MAGUM • FTM • PRT • TURON
Enroute FL	FL300
Obs.	

3.6 DEPARTURES FROM MADEIRA

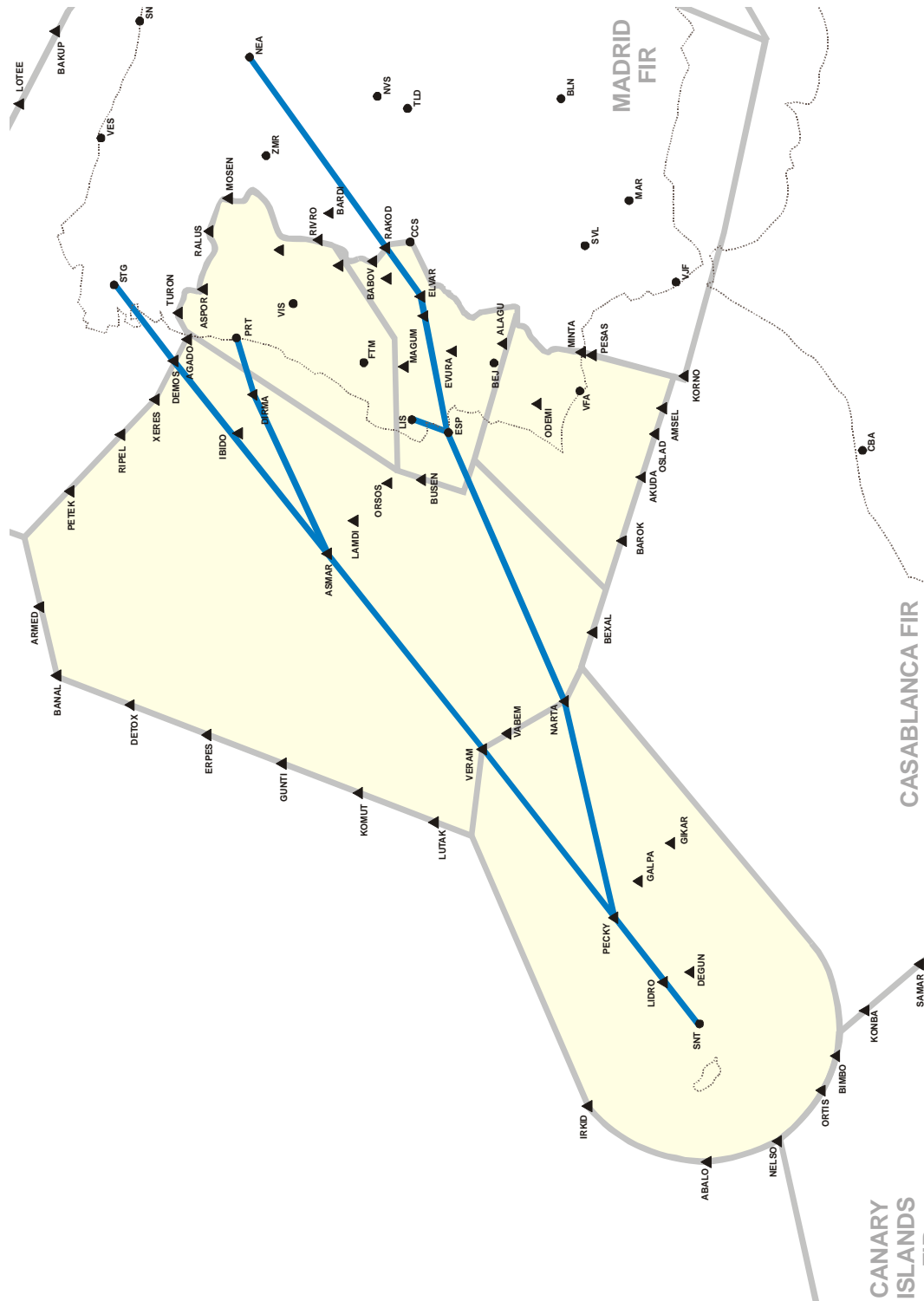


EXIT MADEIRA	
Origin	LPMA / LPPS
Destination	LPPT
Route Seq.	<ul style="list-style-type: none"> • SNT • DEGUN • GIKAR • NARTA • ESP
Enroute FL	FL320
Obs.	

EXIT MADEIRA	
Origin	LPMA / LPPS
Destination	LPPR
Route Seq.	<ul style="list-style-type: none"> • SNT • DEGUN • GIKAR • NARTA • LAMDI • DCT DIRMA • DCT PRT
Enroute FL	FL340 / 360
Obs.	

EXIT MADEIRA	
Origin	LPMA / LPPS
Exit Point	DEMOS
Route Seq.	<ul style="list-style-type: none"> • SNT • DEGUN • GIKAR • NARTA • LAMDI • DEMOS
Enroute FL	FL340 / 360
Obs.	

3.7 ARRIVALS TO MADEIRA



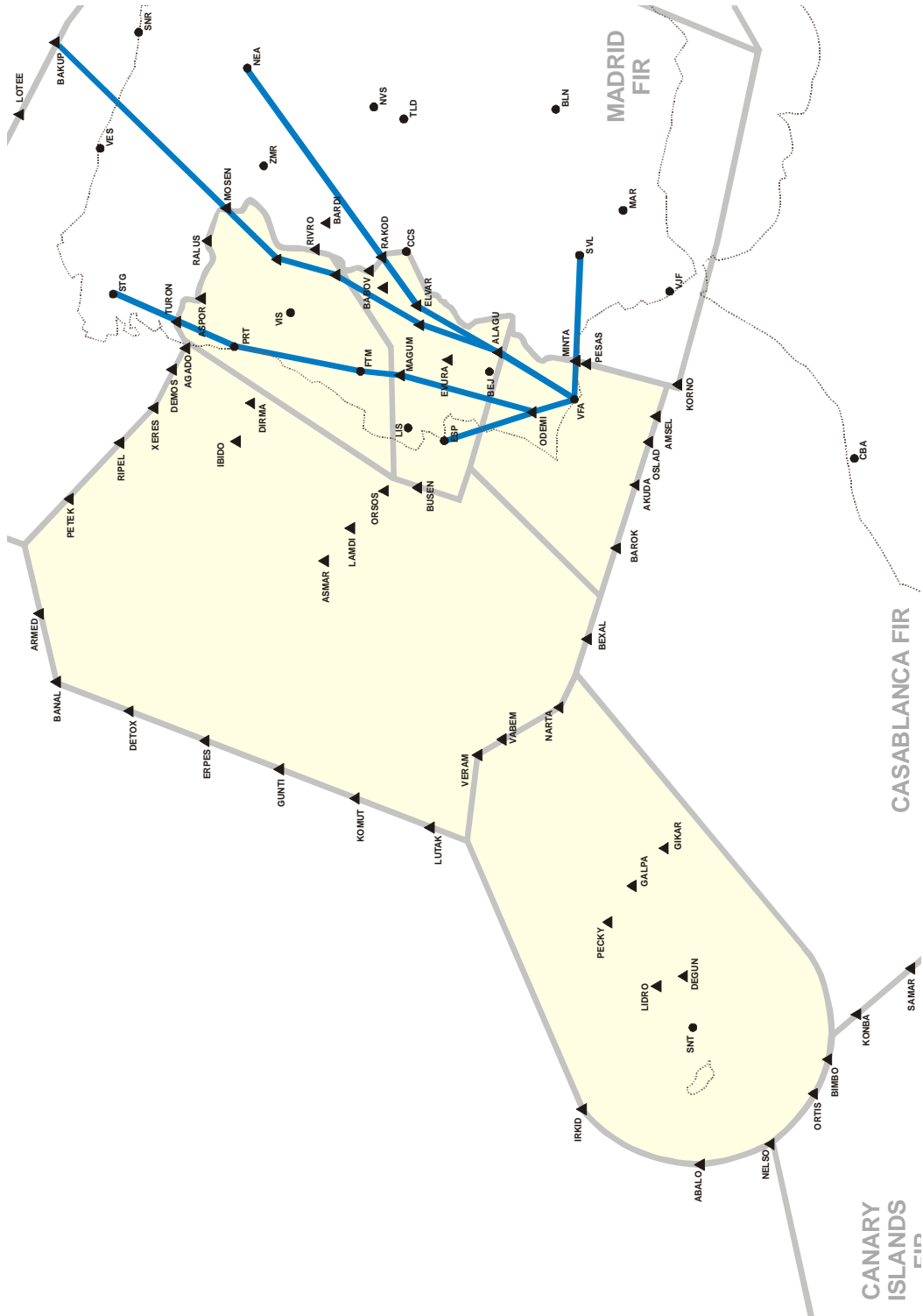
ARRIVALS MADEIRA	
Entry Point	DEMOS
Destination	LPMA / LPPS
Route Seq.	<ul style="list-style-type: none"> • DEMOS • ASMAR • VERAM • TELMU • PECKY • LIDRO • SNT
Enroute FL	FL330 / 350
Obs.	

ARRIVALS MADEIRA	
Origin	LPPR
Destination	LPMA / LPPS
Route Seq.	<ul style="list-style-type: none"> • PRT • DCT DIRMA • ASMAR • VERAM • TELMU • PECKY • LIDRO • SNT
Enroute FL	FL310
Obs.	

ARRIVALS MADEIRA	
Origin	LPPT
Destination	LPMA / LPPS
Route Seq.	<ul style="list-style-type: none"> • ESP • NARTA • PECKY • LIDRO • SNT
Enroute FL	FL290
Obs.	

ARRIVALS MADEIRA	
Entry Point	RAKOD
Destination	LPMA / LPPS
Route Seq.	<ul style="list-style-type: none">• RAKOD• ELVAR• BIRBA• TAGUX• ATECA• ESP• NARTA• PECKY• LIDRO• SNT
Enroute FL	FL310
Obs.	

3.8 ARRIVALS TO FARO



ARRIVALS FARO	
Entry Point	TURON
Destination	LPFR
Route Seq.	<ul style="list-style-type: none">• TURON• PRT• FTM• MAGUM• DCT ODEMI• VFA
Enroute FL	FL330
Obs.	

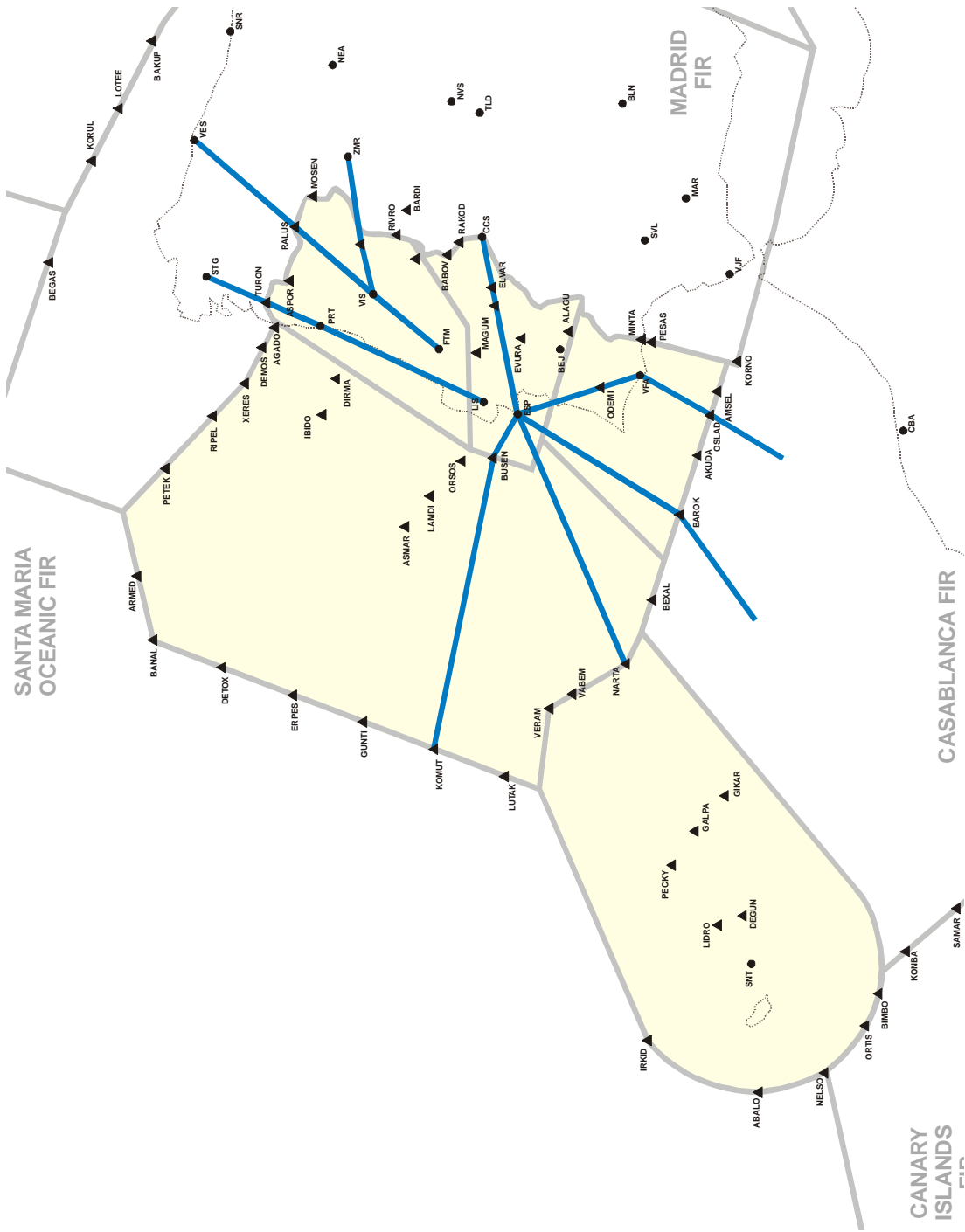
ARRIVALS FARO	
Entry Point	MOSEN
Destination	LPFR
Route Seq.	<ul style="list-style-type: none">• MOSEN• BABEX• PINOX• PORLI• BIRBA• ALAGU• VFA
Enroute FL	FL330
Obs.	

ARRIVALS FARO	
Entry Point	RAKOD
Destination	LPFR
Route Seq.	<ul style="list-style-type: none">• RAKOD• ELVAR• ALAGU• VFA
Enroute FL	FL310
Obs.	

ARRIVALS FARO	
Entry Point	MINTA
Destination	LPFR
Route Seq.	<ul style="list-style-type: none">• MINTA• VFA
Enroute FL	FL130
Obs.	

ARRIVALS FARO	
Origin	LPPT
Destination	LPFR
Route Seq.	<ul style="list-style-type: none">• ESP• VFA
Enroute FL	FL170
Obs.	

3.9 ARRIVALS TO LISBOA



ARRIVALS LISBOA	
Entry Point	TURON
Destination	LPPT
Route Seq.	<ul style="list-style-type: none"> • TURON • PRT • DCT LIS
Enroute FL	FL310
Obs.	

ARRIVALS LISBOA	
Entry Point	RALUS
Destination	LPPT
Route Seq.	<ul style="list-style-type: none"> • RALUS • CANAR • VIS • ABETO • FTM
Enroute FL	FL330
Obs.	

ARRIVALS LISBOA	
Entry Point	NINOS
Destination	LPPT
Route Seq.	<ul style="list-style-type: none"> • NINOS • BABEX • VIS • ABETO • FTM
Enroute FL	FL310
Obs.	

ARRIVALS LISBOA	
Entry Point	CCS
Destination	LPPT
Route Seq.	<ul style="list-style-type: none"> • CCS • ELVAR • BIRBA • TAGUX • ATECA • ESP
Enroute FL	FL270 / 290
Obs.	

ARRIVALS LISBOA	
Entry Point	OSLAD
Destination	LPPT
Route Seq.	<ul style="list-style-type: none"> • OSLAD • VFA • ESP
Enroute FL	FL220 / 300
Obs.	

ARRIVALS LISBOA	
Origin	LPFR
Destination	LPPT
Route Seq.	<ul style="list-style-type: none"> • VFA • ESP
Enroute FL	FL160
Obs.	

ARRIVALS LISBOA	
Entry Point	BAROK
Destination	LPPT
Route Seq.	<ul style="list-style-type: none"> • BAROK • ESP
Enroute FL	FL320
Obs.	

ARRIVALS LISBOA	
Origin	LPMA / LPPS
Destination	LPPT
Route Seq.	<ul style="list-style-type: none"> • SNT • DEGUN • GIKAR • NARTA • ESP
Enroute FL	FL320
Obs.	

ARRIVALS LISBOA	
Entry Point	KOMUT
Destination	LPPT
Route Seq.	<ul style="list-style-type: none"> • KOMUT • BUSEN • ESP
Enroute FL	FL320
Obs.	

ARRIVALS LISBOA	
Origin	LPPR
Destination	LPPT
Route Seq.	<ul style="list-style-type: none">• PRT• DCT LIS
Enroute FL	FL190
Obs.	

ARRIVALS PORTO	
Entry Point	TURON
Destination	LPPR
Route Seq.	<ul style="list-style-type: none"> • TURON • PRT
Enroute FL	FL170
Obs.	

ARRIVALS PORTO	
Entry Point	ASPOR
Destination	LPPR
Route Seq.	<ul style="list-style-type: none"> • ASPOR • PRT
Enroute FL	FL170
Obs.	

ARRIVALS PORTO	
Entry Point	NINOS
Destination	LPPR
Route Seq.	<ul style="list-style-type: none"> • NINOS • BABEX • DCT PRT
Enroute FL	FL290
Obs.	

ARRIVALS PORTO	
Entry Point	RIVRO
Destination	LPPR
Route Seq.	<ul style="list-style-type: none"> • RIVRO • VIS • DCT PRT
Enroute FL	FL290
Obs.	

ARRIVALS PORTO	
Origin	LPPT
Destination	LPPR
Route Seq.	<ul style="list-style-type: none"> • MAGUM • FTM • PRT
Enroute FL	FL180
Obs.	

ARRIVALS PORTO	
Entry Point	BEXAL
Destination	LPPR
Route Seq.	<ul style="list-style-type: none">• BEXAL• ORSOS• TERVA• DCT PRT
Enroute FL	FL340
Obs.	

ARRIVALS PORTO	
Origin	LPMA / LPPS
Destination	LPPR
Route Seq.	<ul style="list-style-type: none">• SNT• DEGUN• GIKAR• NARTA• LAMDI• DCT DIRMA• DCT PRT
Enroute FL	FL340
Obs.	

ARRIVALS PORTO	
Entry Point	DETOX
Destination	LPPR
Route Seq.	<ul style="list-style-type: none">• DETOX• PARAV• IBIDO• DIRMA• DCT PRT
Enroute FL	FL320
Obs.	

= END =

This AIC supersedes AIC 007-2008 (25-SEP-2008)